K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

COMMENT RESPONSE AND
ADDITIONAL WORK PLAN for COMPREHENSIVE SITE INVESTIGATION REPORT

November 5, 2018

Ms. Jennifer Dorman
Wisconsin Department of Natural Resources
2300 North Martin Luther King, Jr. Drive
Milwaukee, WI 53212

Re: Former Bayside Natural Cleaners — KPRG Project No. 18806.3
8828 North Port Washington Road, Bayside, WI
FID# 341140250, BRRTS# 02-41-548572

Dear Ms. Dorman:

On January 23, 2018, on behalf of Former Bayside Natural Cleaners, KPRG and Associates, Inc. (KPRG) submitted a Supplemental Site Investigation Report Addendum for the above referenced site to the Wisconsin Department of Natural Resources (WDNR) for review. On October 12, 2018, which was received by KPRG on October 23, 2018, the WDNR issued a comment letter which requested that all site investigation addendum submittals for this site along with the initial site investigation report be combined into one comprehensive site investigation document and that a Work Plan/Cost estimate be submitted to WDNR for Dry Cleaner Environmental Response Fund (DERF) approval. A copy of the letter is provided in Attachment 1 for reference. The following is the requested scope of work and estimated cost requested by WDNR.

ADDITIONAL SCOPE OF WORK AND COST ESTIMATE

SCOPE OF WORK

Based on the above referenced WDNR letter, KPRG will develop a Comprehensive Site Investigation Report which will integrate all data generated to date from the various phases of site investigation work. The report will include, but not be limited to:

- Evaluate site conditions and contaminants to determine if vapor intrusion into residential homes to the east is a potential pathway of concern.

- Evaluate whether the comprehensive soil and groundwater data are adequate to define the degree and extent of chlorinated volatile organic hydrocarbon (CVOC) impacts.

- Revise all maps to include properties to the north, south and east of the source property, including addresses and property boundaries.

- Revise maps to include comprehensive data for soil, groundwater and vapor data.

- Update cross-sections to include additional soil borings performed since the initial site investigation report submittal. The cross-sections will include all structures, location of former dry cleaning machine, subsurface data (soil and groundwater), utilities, etc.

- Comprehensive soil, groundwater and soil vapor data tables integrating all data along with applicable WDNR comparison standards/criteria.

- Create isoconcentration contour maps (pan and cross-section view) depicting the extent of soil and groundwater impacts.

COST ESTIMATE

The above defined scope of work can be completed for an estimated cost of $6,520. A summary of the estimated cost detailed costing sheet is provided in Attachment 2.

KPRG and Natural Cleaners appreciate the continued cooperation with WDNR in addressing these issues. If there are any questions, please contact me at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.

Richard R. Gnat, P.G.
Principal

cc: Marilyn Fleming, Former Natural Cleaners
Derek Reinke, Ogden & Company, Inc.
John J. Hnat, P.G., C.P.G., WDNR
Donald P. Gallo, Axley Brynelson

ATTACHMENT 1
Copy of WDNR Letter Dated October 12, 2018

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Daniel L. Meyer, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

October 12, 2018

Ms. Marilyn Fleming
Former Bayside Natural Cleaners
N40 W27880 Glacier Road
Pewaukee, WWI 53072

Subject: Supplemental Site Investigation Report Addendum, former Bayside Natural Cleaners, 8828 North Port Washington Road, Bayside, WI

FID: 341140250
BRRTS: 02-41-548572

Dear Ms. Fleming:

The Wisconsin Department of Natural Resources (DNR) has reviewed the Supplemental Site Investigation Report Addendum dated January 23, 2018. This document was submitted by your environmental consultant KPRG and Associates, Inc. (KPRG) in response to the DNR's scope-of-work approval letter of December 22, 2016. To determine if the number of supplemental site investigations have completed the requirements of Wis. Admin. Code ch. NR 716, a comprehensive Site Investigation Report will need to be completed and approved for the site prior to bidding out the Remedial Action Plan. Have KPRG submit a change order request to cover the costs of the preparation and submittal of this document.

Revisions to Document Submittals

The DNR's review of the Supplemental Site Investigation Report and previous report submittals will require revisions of maps, tables, and responses for the following as required in ch. NR 716, Wis. Admin. Code. Specifically:

1. Per Wis. Admin. Code § NR 716.11(5)(g), evaluate site conditions and contaminants to determine if vapor intrusion into the residential homes to the east is a potential migration pathway of concern. When conducting a vapor intrusion assessment, use the DNR's vapor intrusion guidance document, RR-800, "*Addressing Vapor Intrusion at Remediation & Redevelopment Sites in Wisconsin.*"
2. Evaluate whether the comprehensive soil and groundwater data are adequate to define the degree and extent of CVOC (chlorinated volatile organic compound) contamination. Wis. Admin. Code § NR 716.11(3)(a) requires the field investigation to determine the nature, degree, and extent, both areal and vertical, of the hazardous substances or environmental pollution in all affected media.
3. Revise all maps to include properties to the north, south, and east of the source property, including addresses and all property boundaries.
4. Revise maps to include comprehensive data for soil, groundwater, and vapor information.
5. Provide cross-sections that incorporate applicable site information including, but not limited to, subsurface data, water table elevation, utilities, buildings, and the location of the former dry-cleaning machine.

6. Provide comprehensive soil data tables that indicate if the soil samples were collected from saturated or unsaturated intervals; include groundwater pathway residual contaminant levels (RCLs), nonindustrial and industrial RCLs, and background threshold values in the tables, and clearly identify an exceedance of each RCL, per Wis. Admin. Code § NR 716.15(4)(e).
7. Use isoconcentration lines on the maps and cross-sections to define the degree and extent of contamination for soil and groundwater. Wis. Admin. Code § NR 716.15(4)(c) and (d) requires the site investigation report to include isoconcentration maps and cross-sections to depict the hazardous substance concentrations in each environmental medium.

Have your consultant KPRG upload an electronic copy to our FTP site and a hard copy to the address located above to our Environmental Program Associate Jennifer Dorman. If you have any questions, call me at 414-263-8644, or email me at john.hnat@wisconsin.gov.

Sincerely,

John J. Hnat, P.G., C.P.G
Project Manager/Hydrogeologist
Southeast Region
Remediation and Redevelopment Program

C: Richard Gnat & Patrick Allenstein - KPRG
WDNR SER File

ATTACHMENT 2
Cost Estimate Backup

KPRG TASK COSTING SHEET

Project: Natural Cleaners Remedial Action - Bayside, WI

Task: 1 - Comprehensive Site Investigation Report

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		8	$1,080.00
Field Eng./Sci.	$70		60	$4,200.00
CADD	$60		16	$960.00
Admin. Asst/ Word Proc.	$45		4	$180.00
			Total Labor	$6,420.00

External Expenses	Rate	Type	Units	Total
Reproduction	$100	Est.	1	$100.00
Field Vehicle	$60	Daily	0	$0.00
Sampling Supplies	$20	Daily	0	$0.00
Drums	$55	Each	0	$0.00
PPE - Modified Level D	$15	Daily	0	$0.00
PPE - Level C	$35	Daily	0	$0.00
			Total Exp.	$100.00

Contractors	Rate	Type	Units	Total
		Estimate		$0.00
			Total Contractors	$0.00

TASK TOTAL:	$6,520.00

K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

SUPPLEMENTAL SITE INVESTIGATION REPORT ADDENDUM

January 23, 2018

Mr. Chue Yee Yang
Wisconsin Department of Natural Resources
2300 North Martin Luther King, Jr. Drive
Milwaukee, WI 53212

Re: Former Bayside Natural Cleaners
8828 North Port Washington Road, Bayside, WI
FID# 341140250, BRRTS# 02-41-548572

KPRG Project No. 18806.3

Dear Mr. Yang:

The following is a review of the recent correspondence between KPRG and the WDNR:

- October 6, 2014 - KPRG Supplemental SI Report
- February 20, 2015 - WDNR SI Denial Comment Letter
- March 16, 2015 - KPRG and WDNR Meeting
- June 26, 2015 - KPRG Comment Response Letter with Work Plan
- June 30, 2015 - WDNR Approval Letter
- November 10, 2015 - KPRG Supplemental SI Report
- April 20, 2016 - WDNR SI Denial Response
- May 31, 2016 - KPRG Comment Response with Work Plan and IRA
- November 2, 2016 - WDNR Work Plan Denial Response
- November 22, 2016 - KPRG Revised Work Plan
- December 22, 2016 - WDNR Work Plan Approval

This report addendum documents the additional work completed outlined in the November 22, 2016 work plan and approved by the WDNR December 22, 2016.

Sub-Slab Vapor Probe Installations/Sampling

On March 31, 2017, KPRG installed four additional sub-slab vapor probes SV-1, SV-2, SV-3, and SV-4 at locations shown on Figure 1. Cox-Colvin vapor pins were installed through the concrete floor per manufacturer directions and were tested for tightness using a helium gas shroud method. During testing at vapor probe SV-4, water was drawn up while the probe was under vacuum. As a result, SV-4 was not able to be sampled. There were no water issues at the remaining probes. As requested by the WDNR, the Sub-Slab Depressurization System (SSDS)

was shut down prior to sample collection. Once SV-1, SV-2 and SV-3 were determined to be air tight, sub-slab vapor samples were collected at each vapor point using a six-liter, Summa Canister with 1-hour flow controller. Samples were sent under completed chain-of-custody to a Pace Analytical laboratory for analysis of chlorinated volatile organic compounds (CVOCs) using Method TO15.

Check Working Condition of Existing SSDS

In 2012, KPRG installed a SSDS in the vicinity of the defined PCE impacts and conducted a field extension test verifying that the system had influence over the area of concern. As requested by the WDNR, an additional round of testing was completed on September 20, 2017. As shown on Figure 2, the field testing confirmed the previous conclusion that the system depressurization covers the area of concern. In addition and as requested by the WDNR, KPRG measured the exhaust vapors of the system with a photo-ionization detector (PID). There were no PID readings above 0.0 ppm observed that day.

Additional Soil Borings

KPRG advanced soil borings, GP-20 through GP-24, MW-3D and MW-5 at locations shown on Figure 1. Soil borings GP-20 through GP-24 were advanced with a Geoprobe and extended to 12 feet below ground surface (bgs). Borings MW-3D and MW-5 were also advanced with a Geoprobe and then followed by hollow-stem augers and extended to 50 and 25 feet bgs, respectively. Continuous soil core samples were collected from all borings. Soils were field screened with a PID for total organic vapors and logged using the Unified Soil Classification System (USCS). Borings MW-3D and MW-5 were converted into NR141 compliant monitoring wells and the remainder of the borings were abandoned with granular bentonite to the surface and hydrated. Copies of the boring logs, abandonment forms are included in Attachment 1.

In accordance with the approved work plan and based on the results of the field screening, two soil samples were collected from each boring except for MW-3D which was located adjacent to MW-3. The soil samples were analyzed for chlorinated volatile organic compounds (CVOCs). Appropriate sample aliquots were placed into laboratory prepared containers and placed on ice. All samples were transported under a completed chain-of-custody and were transported to Pace Analytical Services, Inc. for analysis of CVOCs using Method 8260B.

Additional Well Installations and Groundwater Sampling

As noted above, and in accordance with the approved work plan, two additional wells were installed using hollow stem auger drilling. The well locations are shown on Figure 1. Well MW-5 was constructed as a water table monitoring well with a depth of 25 feet with 10 feet of screen. Well MW-3D was constructed as a piezometer with a depth of 48 feet bgs with 5 feet of screen. Each well was constructed with 2-inch PVC and 0.010' slot screen. The wells were completed by placing a silica sand filter pack to approximately two feet above the top of the screen followed by a 2-foot bentonite seal that was placed and hydrated atop the filter sand. The remainder of the annulus was filled with granular bentonite and hydrated. Surface completions were flush mount well vaults anchored within concrete. All drill cuttings were containerized in

labeled 55-gallon drums and temporarily staged on the east side of the property for subsequent proper disposal.

The wells were developed using the pump and surge method. Purging continued until the well was dry or until field parameters of pH, specific conductance and temperature showed stable conditions. Purge water was also containerized in labeled 55-gallon drums for subsequent proper disposal. Monitoring well construction and development forms are included in Attachment 1.

Upon completion, the well locations and top of casing elevations were surveyed by a Wisconsin licensed surveyor.

Groundwater samples were collected per the approved work plan. One round of groundwater samples were collected from all monitoring wells associated with the site followed by a confirmation round of the two new wells MW-3D and MW-5. The samples were collected for analysis with dedicated bottom filling bailers and transferred directly into laboratory prepared containers, preserved as necessary, and placed on ice. Samples were shipped to Pace Analytical laboratory under completed chain-of-custody procedure for analysis of chlorinated volatile organic compounds.

Analytical Results

As noted above, three sub-slab vapor samples were collected at locations shown on Figure 1. All vapor samples were collected via Summa canisters and analyzed for CVOCs. The analytical data is presented in Table 1 and the laboratory packages are provided in Attachment 2. Table 1 includes WDNR Vapor Risk Screening Levels (VRSLs) for small commercial properties and also the sub-slab levels. A review of the data indicates that that there are no non-residential exceedances in any of the samples collected. The only detection in any of the samples was for trichloroethene (TCE) and was present in all three samples.

As part of this site investigation, a total of 12 additional soil samples were collected from 6 soil boring locations (GP-20 through GP-24 and MW-5) as shown on Figure 1. Soil sampling intervals were determined in the field based on PID field screening data to assist in defining the horizontal and vertical extent of impacts. As noted above all soil samples were analyzed for CVOCs. The soil data is summarized on Table 2 and shown on Figure 3. Analytical data packages are provided in Attachment 2. There were detections of selected CVOCs in all soil samples collected as part of this additional investigation. GP-21 was the only boring which contained soils exceeding any RCL. There were exceedances of the soil-to-groundwater standard in the remaining samples.

Table 3 includes the historical groundwater data along with the WDNR NR140 preventative action limits (PALs) and enforcement standards (ESs). A groundwater impact map is provided on Figure 4. As noted above, one complete round of groundwater samples were collected followed by a confirmation round of the two new wells, MW-3D and MW-5. During the first round, GP-10 was not located, presumed buried, and therefore was not sampled. A review of the recent data for the first round indicates that the concentrations in the wells were consistent with previous levels. There were no detections of any CVOC in either of the two new wells MW-3D

or MW-5. The second round results showed detections above the PAL at new well MW-5 for PCE and TCE.

Depth to groundwater water has been measured for the wells on the site for about ten years. The direction of flow has been consistently to the south east. The most recent round of water levels do not allow for a flow direction to be determined, potentially as a result of the time since the last round, or as a result of the recent change of potable water for the Bayside area from groundwater to water obtained from Lake Michigan.

Conclusions

Based on the above data summary discussions, the following conclusions are made:

- The installation and sampling of three additional sub-slab vapor probes revealed that there are no results above any standard with the SSDS temporarily turned off.

- The SSDS field extension was retested resulting in a similar sufficient radius of influence as initially reported.

- The additional soil samples collected confirmed that the source of impacts appears focused around MW-2. Additional areas of impacts above the soil-to-groundwater standard have been documented surrounding the source area.

- The installation of two additional groundwater monitoring wells confirm that the impacts are focused around the source in the area of MW-2. Results from MW-3D show that the deeper impacts also appear to be focused around the source area. Results from the monitoring MW-5 to the north were inconclusive.

KPRG and Associates, Inc. believes that the site investigation is now complete and that the site can proceed with obtaining remediation bids.

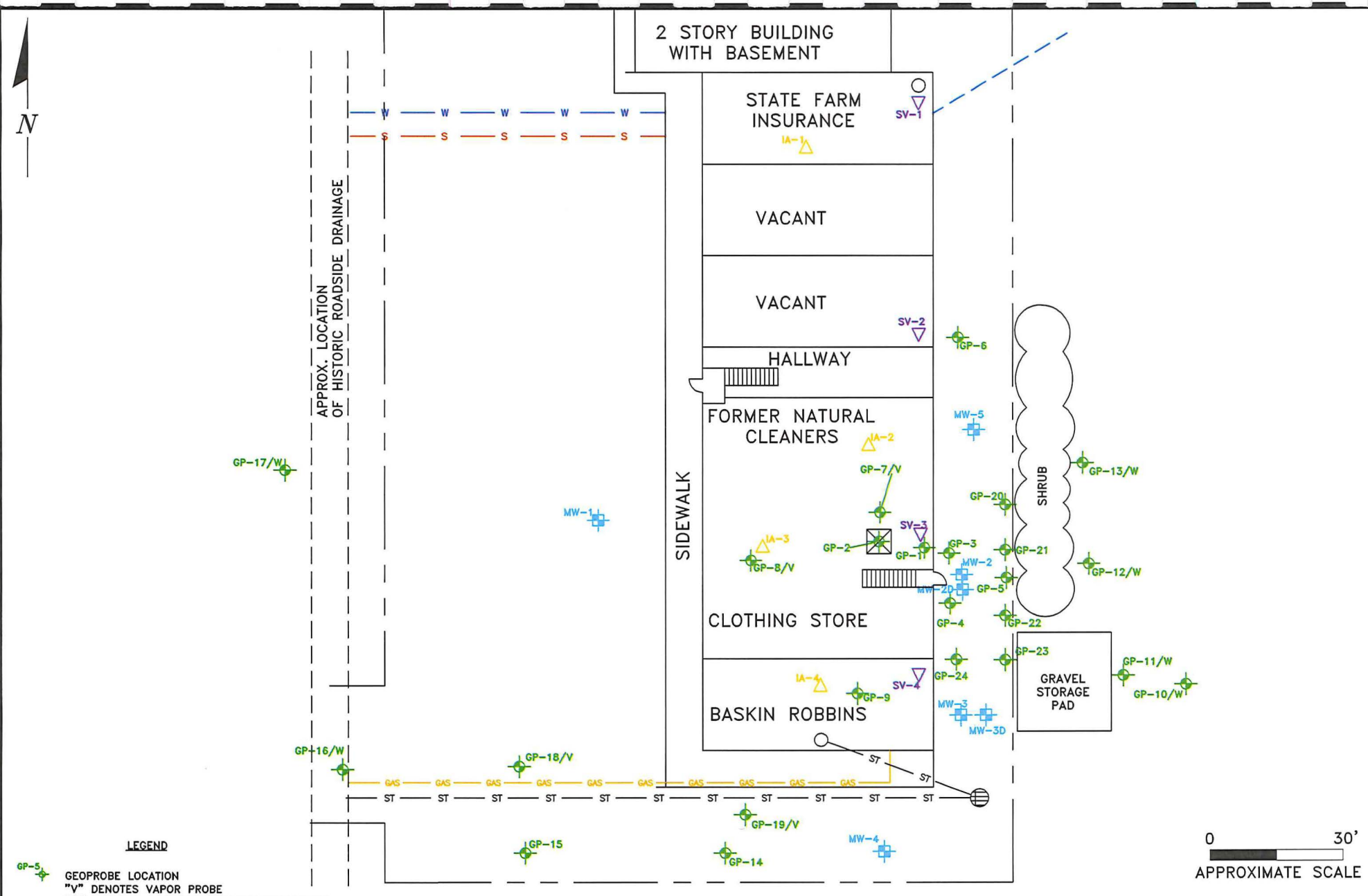
KPRG and Natural Cleaners appreciate the continued cooperation with WDNR in addressing these issues. If there are any questions, please contact us at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.

Richard R. Gnat, P.G.
Principal

Patrick Allenstein, P.G.
Senior Geologist/Project Manager

cc: Marilyn Fleming, former Natural Cleaners
John J. Hnat, P.G., C.P.G., WDNR
Derek Reinke, Ogden & Company, Inc. (e-mail)
Donald P. Gallo, Husch Blackwell, LLP (e-mail)



LEGEND

GP-5 GEOPROBE LOCATION
"V" DENOTES VAPOR PROBE
"W" DENOTES A TEMPORARY MONITORING WELL

MW-4 MONITORING WELL LOCATION

IA-1 INDOOR AIR SAMPLE LOCATION

SV-1 SOIL VAPOR PROBE LOCATION

GAS — GAS LINE
S — SANITARY SEWER
W — WATER LINE
ST — STORM SEWER

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, inc.

14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

SAMPLE LOCATION MAP

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30' | Date: January 18, 2018

KPRG Project No. 18806.3 | FIGURE 1

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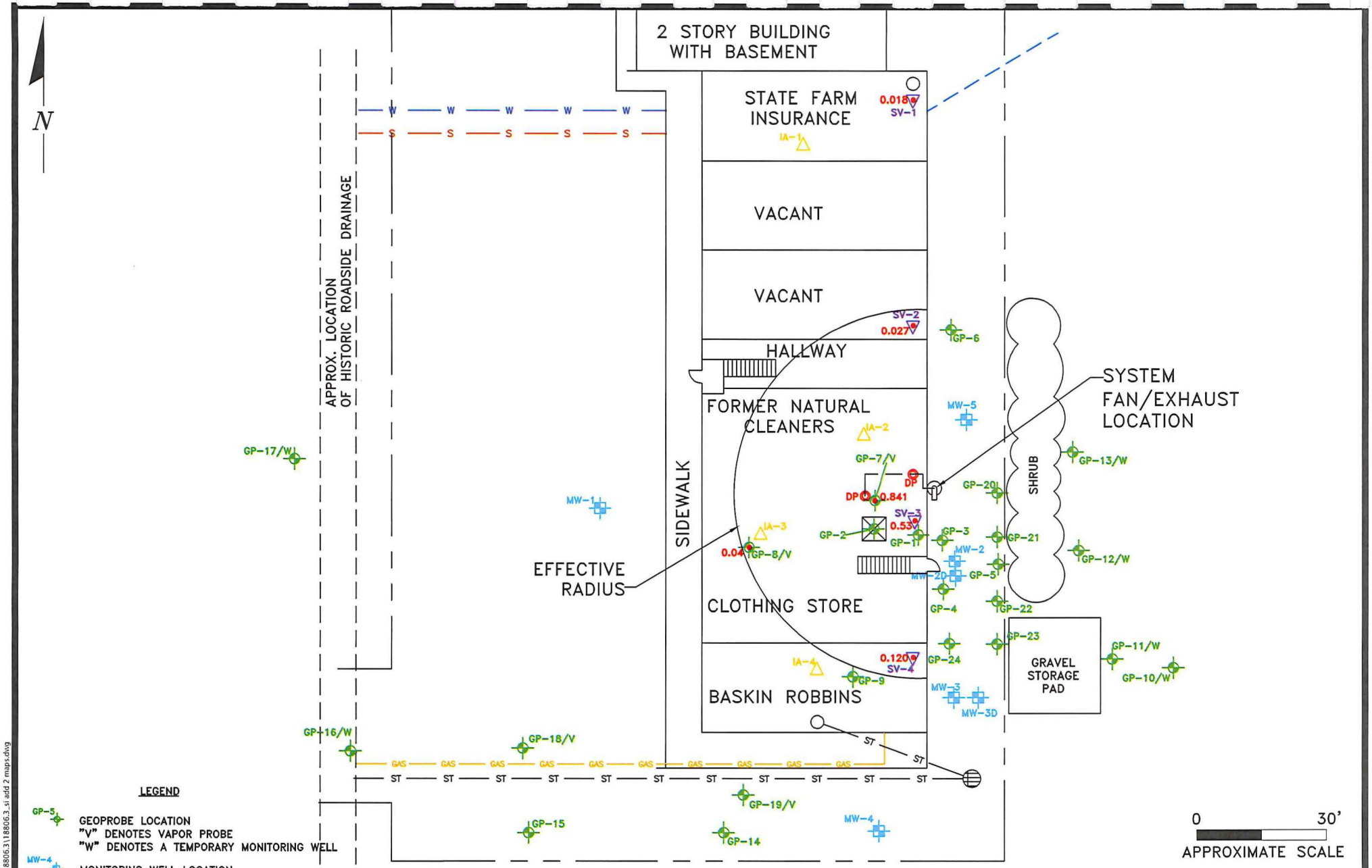

LEGEND

- GP-5 — GEOPROBE LOCATION
  "V" DENOTES VAPOR PROBE
  "W" DENOTES A TEMPORARY MONITORING WELL
- MW-4 — MONITORING WELL LOCATION
- IA-1 — INDOOR AIR SAMPLE LOCATION
- SV-1 — SOIL VAPOR PROBE LOCATION
- 0.841 — TEST POINT LOCATION WITH READING

GAS — GAS LINE
S — SANITARY SEWER
W — WATER LINE
ST — STORM SEWER

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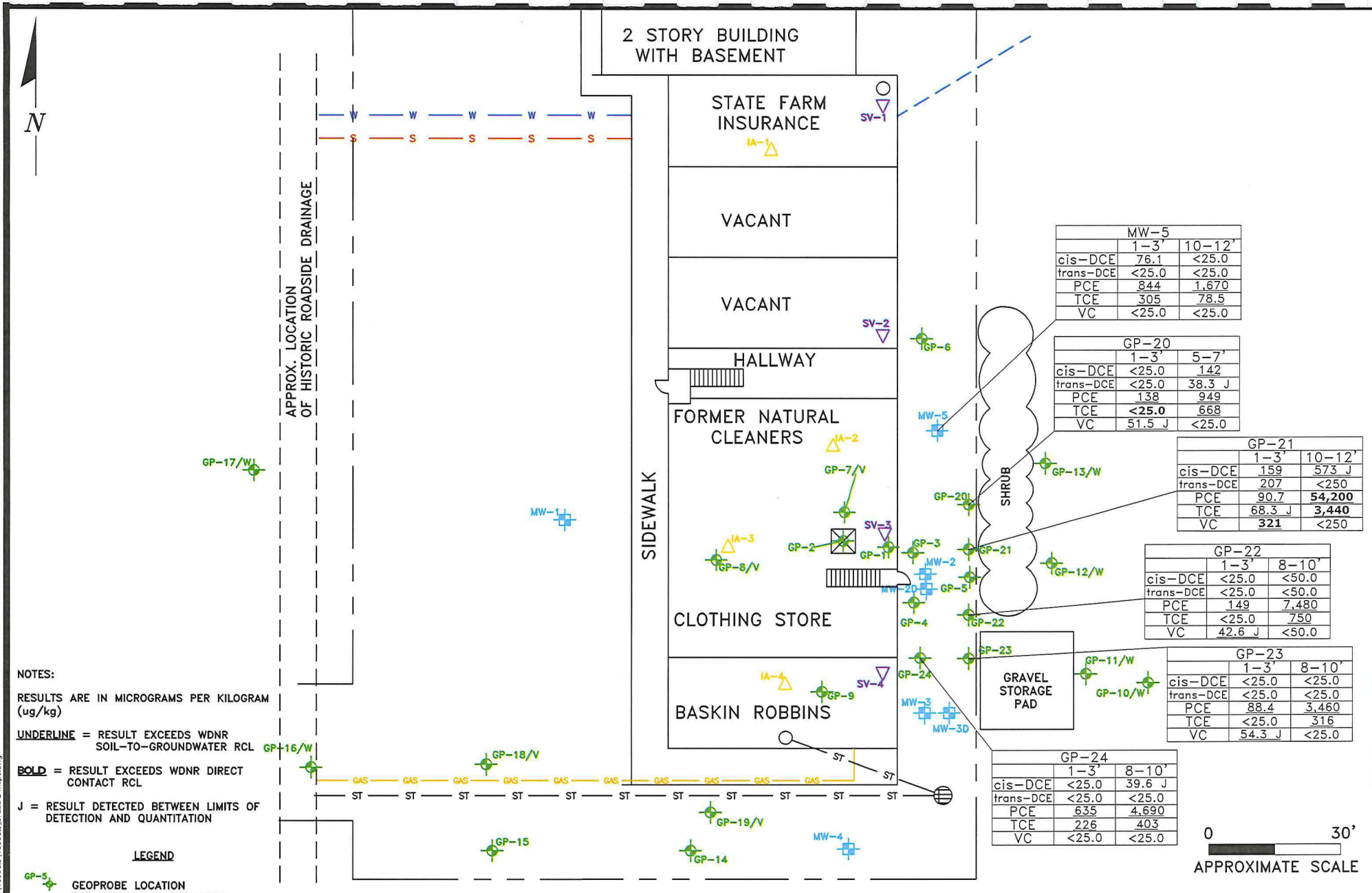
SSDS FIELD EXTENSION TEST

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30' | Date: January 18, 2018

KPRG Project No. 18806.3 | FIGURE 2

W:\projects\natural cleaners-bayside 18806\18806.3\18806.3_si add 2 maps.dwg



MW-5	1-3'	10-12'
cis-DCE	76.1	<25.0
trans-DCE	<25.0	<25.0
PCE	844	1,670
TCE	305	78.5
VC	<25.0	<25.0

GP-20	1-3'	5-7'
cis-DCE	<25.0	142
trans-DCE	<25.0	38.3 J
PCE	138	949
TCE	**<25.0**	668
VC	51.5 J	<25.0

GP-21	1-3'	10-12'
cis-DCE	159	573 J
trans-DCE	207	<250
PCE	90.7	**54,200**
TCE	68.3 J	**3,440**
VC	**321**	<250

GP-22	1-3'	8-10'
cis-DCE	<25.0	<50.0
trans-DCE	<25.0	<50.0
PCE	149	7,480
TCE	<25.0	750
VC	42.6 J	<50.0

GP-23	1-3'	8-10'
cis-DCE	<25.0	<25.0
trans-DCE	<25.0	<25.0
PCE	88.4	3,460
TCE	<25.0	316
VC	54.3 J	<25.0

GP-24	1-3'	8-10'
cis-DCE	<25.0	39.6 J
trans-DCE	<25.0	<25.0
PCE	635	4,690
TCE	226	403
VC	<25.0	<25.0

NOTES:

RESULTS ARE IN MICROGRAMS PER KILOGRAM (ug/kg)

UNDERLINE = RESULT EXCEEDS WDNR SOIL-TO-GROUNDWATER RCL

BOLD = RESULT EXCEEDS WDNR DIRECT CONTACT RCL

J = RESULT DETECTED BETWEEN LIMITS OF DETECTION AND QUANTITATION

LEGEND

GP-5 GEOPROBE LOCATION
"V" DENOTES VAPOR PROBE
"W" DENOTES A TEMPORARY MONITORING WELL

MW-4 MONITORING WELL LOCATION

IA-1 INDOOR AIR SAMPLE LOCATION

SV-1 SOIL VAPOR PROBE LOCATION

GAS GAS LINE

S SANITARY SEWER

W WATER LINE

ST STORM SEWER

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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

EXTENT OF SOIL IMPACTS

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30' | Date: January 18, 2018

KPRG Project No. 18806.3 | FIGURE 3

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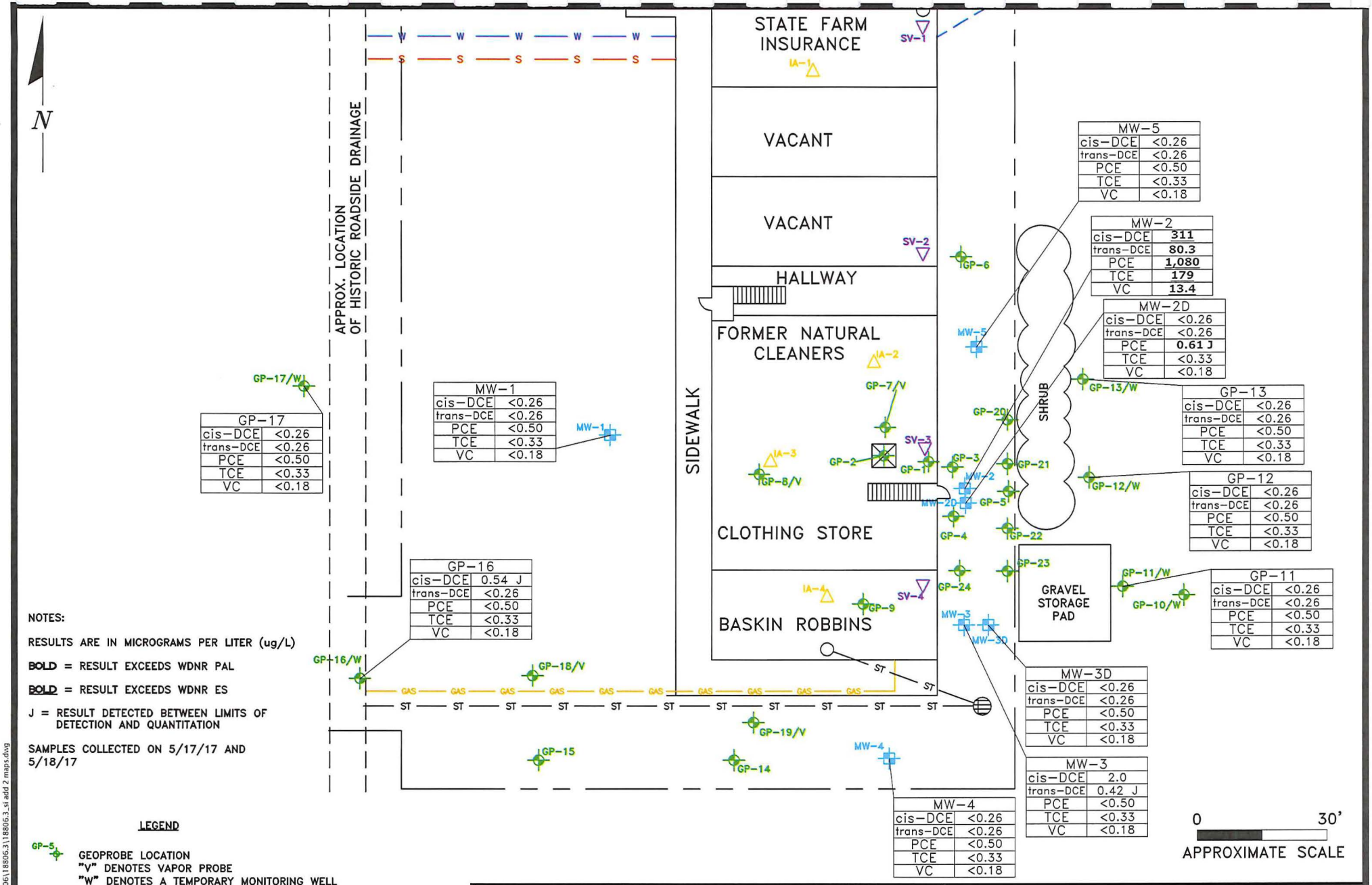

NOTES:

RESULTS ARE IN MICROGRAMS PER LITER (ug/L)

BOLD = RESULT EXCEEDS WDNR PAL

BOLD = RESULT EXCEEDS WDNR ES

J = RESULT DETECTED BETWEEN LIMITS OF DETECTION AND QUANTITATION

SAMPLES COLLECTED ON 5/17/17 AND 5/18/17

LEGEND

GP-5 GEOPROBE LOCATION
"V" DENOTES VAPOR PROBE
"W" DENOTES A TEMPORARY MONITORING WELL

MW-4 MONITORING WELL LOCATION

IA-1 INDOOR AIR SAMPLE LOCATION

SV-1 SOIL VAPOR PROBE LOCATION

GAS GAS LINE
S SANITARY SEWER
W WATER LINE
ST STORM SEWER

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

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414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

EXTENT OF GROUNDATER IMPACTS

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 30' | Date: January 18, 2018

KPRG Project No. 18806.3 | FIGURE 4

W:\projects\natural cleaners-bayside 18806\18806.3\18806.3_si add 2 maps.dwg

Table 1 - Summary of Sub-Slab Vapor Sample Analytical Results - Former Natural Cleaners, Bayside, WI

Sample Name	WDNR Small Commercial		GP-18	GP-19	SV-1	SV-2	SV-3
Parameter Date	Indoor VAL	Sub-Slab VRSL	10/06/15	10/06/15	03/31/17	03/31/17	03/31/17
1,1-Dichloroethane	77	2,600	<0.74	<0.79	<0.23	<0.24	<0.24
1,1-Dichloroethene	4.7	160	<1.1	<1.2	<0.34	<0.37	<0.37
cis-1,2-Dichloroethene	NV	NV	<1.2	<1.2	0.66 J	<0.38	8.7
trans-1,2-Dichloroethene	NV	NV	NA	NA	<0.55	<0.60	7.8
Tetrachloroethene	180	6,000	<1.3	4.9	2.5	0.68 J	175
1,1,1-Trichloroethane	22,000	730,000	<1.2	<1.2	<0.36	<0.38	0.36 J
Trichloroethene	8.8	290	<1.3	1.7 J	0.49 J	<0.43	32
Vinyl Chloride	28	930	<0.92	<0.99	<0.28	<0.30	<0.30

Notes : All values in ug/m^3.

SV samples collected while SSDS shut off as directed by the WDNR.

VAL - Vapor Action Level

VRSL - Vapor Risk Screening Level

NA - Not Analyzed

NV - No Value

BOLD - Result exceeds the Sub-Slab VRSL

Table 2. Soil Sampling Analytical Results For Detected CVOC - Former Natural Cleaners, Bayside, WI

Parameter	Boring Depth	WDNR Non-Industrial Standards RCL	WDNR Non-Industrial Standards Soil-GW	GP-20 1-3	GP-20 5-7	GP-21 1-3	GP-21 10-12	GP-22 1-3	GP-22 8-10
cis-1,2-Dichloroethene		156,000	41.2	<25.0	142	159	573 J	<25.0	<50.0
trans-1,2-Dichloroethene		1,560,000	62.6	<25.0	38.3 J	207	<250	<25.0	<50.0
Tetrachloroethene		33,000	4.5	138	949	90.7	**54,200**	149	7,480
Trichloroethene		1,300	3.6	<25.0	668	68.3 J	**3,440**	<25.0	750
Vinyl chloride		67	0.1	51.5 J	<25.0	**321**	<250	42.6 J	<50.0

Parameter	Boring Depth	WDNR Non-Industrial Standards RCL	WDNR Non-Industrial Standards Soil-GW	GP-23 1-3	GP-23 8-10	GP-24 1-3	GP-24 8-10	MW-5 1-3	MW-5 10-12
cis-1,2-Dichloroethene		156,000	41.2	<25.0	<25.0	<25.0	39.6 J	76.1	<25.0
trans-1,2-Dichloroethene		1,560,000	62.6	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0
Tetrachloroethene		33,000	4.5	88.4	3,460	635	4,690	844	1,670
Trichloroethene		1,300	3.6	<25.0	316	226	403	305	78.5
Vinyl chloride		67	0.1	54.3 J	<25.0	<25.0	<25.0	<25.0	<25.0

Notes: All results are in ug/kg.

RCL - Residual Contaminant Level

Soil-GW - Soil to Groundwater RCL

Underline - Value exceeds the WDNR soil-to-gw RCL

Bold - Value exceeds the WDNR non-industrial direct contact RCL

J - Detected between the limits of detection and quantitation

Table 3. Summary of Groundwater Sample Analytical Results - Former Natural Cleaners, Bayside, WI

Parameter Name	WDNR NR 140		MW-1											MW-2										
	PAL	ES	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/20/2014	5/17/2017	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.75	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.90	**0.67 J**	**1.3**	**1.1J**	**1.4 J**	<0.72	<0.72	**1.5 J**	<2.4	<1.9	**1.6 J**
cis-1,2-Dichloroethene	7	70	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42	<0.26	**180**	**168**	**187**	**221**	**276**	**247**	**218**	**258**	**366**	**299**	**311**
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	**23**	**18.1**	**22.8**	**32.3**	**43.3**	**40.7**	**34.3**	**40.1**	**74.6**	**56.9**	**80.3**
Methyl-tert-butyl ether	12	60	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	<1.5	<0.61	<0.61	<1.2	<1.2	<1.2	<1.2	<1.2	NA	NA	NA
Tetrachloroethene	0.5	5	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	**320**	**164**	**199**	**412**	**565**	**539**	**450**	**507**	**1070**	**757**	**1080**
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	5.1 Q	3.1	4.8	7.1	7.4	8.6	7.7	6.9	9.0	7.2	7.1
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	**58**	**33**	**50.1**	**76.3**	**95.6**	**99.6**	**86.9**	**97.5**	**161**	**129**	**179**
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**7.2**	<0.18	**4.3**	**11.9**	**14.6**	**2.1**	<0.36	**1.6 J**	**56.9**	**2.6 J**	**13.4**
Dissolved Oxygen (mg/l)	NE	NE	1.32	0.70	0.48	1.03	0.39	0.20	0.27	0.60	0.71	0.69	0.94	1.04	0.64	0.69	1.14	0.28	0.32	0.28	0.81	0.21	0.97	0.52
Oxidation-Reduction Potential	NE	NE	163	16.9	174	135	111.5	113	-30.3	59.9	93.0	-84.2	112.6	170	2.0	145.0	93.8	63.6	119.0	-64.4	50.1	87.4	-73.1	101.7

Parameter Name	WDNR NR 140		MW-2D											MW-3										MW-3D	
	PAL	ES	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/12/2013	2/20/2014	5/18/2017	5/18/2017	12/1/2017
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.17	<0.17
cis-1,2-Dichloroethene	7	70	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.42	1.2	<0.26	< 0.83	<0.83	1.3	<0.83	<0.83	<0.83	<0.83	<0.83	1.7	0.88 J	2.0	<0.26	<0.26
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	0.42 J	<0.26	<0.26
Methyl-tert-butyl ether	12	60	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	< 0.45	<0.45	**0.51 J**	<0.45	**<0.57 J**	**0.64 J**	**1.0**	**0.62 J**	**1.1**	**3.0**	**0.61 J**	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	<0.50	<0.50
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	<0.50	<0.50
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	**0.58 J**	<0.33	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<0.33	<0.33
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.42 Q**	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Dissolved Oxygen (mg/l)	NE	NE	2.13	1.01	4.35	1.00	0.69	0.84	0.65	0.44	0.49	0.70	0.53	1.40	0.86	0.91	1.13	1.97	0.40	0.89	0.63	0.60	0.90	0.58	1.44	1.46
Oxidation-Reduction Potential	NE	NE	169	3.7	108	11.6	-30.1	87.4	-30.6	1.1	4.4	-74.9	-28	170	12.5	146	96.6	46.3	95.4	-23.2	57.6	23.5	-71.7	176.8	137.9	-24.6

Parameter Name	WDNR NR 140		MW-4											MW-5		GP-10						
	PAL	ES	1/24/2008	6/4/2008	8/26/2008	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/20/2014	5/17/2017	5/18/2017	12/1/2017	6/25/2009	6/3/2010	9/16/2010	12/15/2010	4/5/2011	11/11/2013	2/19/2014
1,2-Dichloroethane	0.5	5	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48	<0.17	<0.17	<0.17	<0.36	<0.36	<0.36	<0.36	<0.36	<0.48	<0.48
cis-1,2-Dichloroethene	7	70	< 0.83	0.86J	< 0.83	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42	<0.26	<0.26	1.7	< 0.83	<0.83	<0.83	<0.83	<0.83	<0.42	<0.42
trans-1,2-Dichloroethene	20	100	< 0.89	<0.89	< 0.89	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37	<0.26	<0.26	<0.26	< 0.89	<0.89	<0.89	<0.89	<0.89	<0.37	<0.37
Methyl-tert-butyl ether	12	60	<0.61	9.3	9.0	**23.6**	**28.9**	**22.4**	**20.3**	**21.8**	NA	NA	NA	NA	NA	<0.61	<0.61	<0.61	<0.61	<0.61	NA	NA
Tetrachloroethene	0.5	5	< 0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47	<0.50	<0.50	**4.0**	<0.45	<0.45	<0.45	<0.45	<0.45	<0.47	<0.47
1,1,1-Trichloroethane	40	200	< 0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44	<0.50	<0.50	<0.50	<0.90	<0.90	<0.90	<0.90	<0.90	<0.44	<0.44
Trichloroethene	0.5	5	< 0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36	<0.33	<0.33	**1.5**	<0.48	<0.48	<0.48	<0.48	<0.48	<0.36	<0.36
Vinyl Chloride	0.02	0.2	< 0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Dissolved Oxygen (mg/l)	NE	NE	1.30	0.78	0.60	1.14	0.21	0.29	0.42	0.57	3..378	0.30	0.57	4.89	0.45	6.66	1.41	1.26	4.56	1.99	1.0	NM
Oxidation-Reduction Potential	NE	NE	150	11.5	179	56.5	-13.1	46.8	-24.8	62.2	89.0	-74.8	-12.5	157.5	86.5	116	29.8	27.1	-21.3	141.1	31.5	NM

Parameter Name	WDNR NR 140		GP-11			GP-12			GP-13			GP-16				GP-17			Sump-N	Sump-S
	PAL	ES	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	5/17/2017	11/11/2013	2/19/2014	10/1/2015	5/17/2017	11/11/2013	2/19/2014	5/17/2017	2/20/2014	2/20/2014
1,2-Dichloroethane	0.5	5	<0.48	<0.48	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48	NA	<0.17	<0.48	<0.48	<0.17	<0.48	<0.48
cis-1,2-Dichloroethene	7	70	<0.42	<0.42	<0.26	<0.42	<0.42	<0.26	<0.42	<0.42	<0.26	1.7	1.4	1.2	0.54 J	<0.42	<0.42	<0.26	<0.42	<0.42
trans-1,2-Dichloroethene	20	100	<0.37	<0.37	<0.26	<0.37	<0.37	<0.26	<0.37	<0.37	<0.26	<0.37	<0.37	NA	<0.26	<0.37	<0.37	<0.26	<0.37	<0.37
Methyl-tert-butyl ether	12	60	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	0.5	5	<0.47	<0.47	<0.50	<0.47	<0.47	<0.50	<0.47	<0.47	<0.50	<0.47	<0.47	<0.50	<0.50	<0.47	<0.47	<0.50	<0.47	<0.47
1,1,1-Trichloroethane	40	200	<0.44	<0.44	<0.50	<0.44	<0.44	<0.50	<0.44	<0.44	<0.50	<0.44	<0.44	<0.50	<0.50	<0.44	<0.44	<0.50	<0.44	<0.44
Trichloroethene	0.5	5	<0.36	<0.36	<0.33	<0.36	<0.36	<0.33	<0.36	<0.36	<0.33	<0.36	<0.36	<0.33	<0.33	<0.36	<0.36	<0.33	<0.36	<0.36
Vinyl Chloride	0.02	0.2	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	**0.40 J**	**0.33 J**	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18
Dissolved Oxygen (mg/l)	NE	NE	2.1	NM	2.2	2.7	NM	1.7	0.9	NM	1.7	1.9	NM	NM	1.9	1.4	NM	1.7	NM	NM
Oxidation-Reduction Potential	NE	NE	109.3	NM	145.5	100.8	NM	103.7	149.5	NM	45.3	92.1	NM	NM	31.1	81.4	NM	31.2	NM	NM

Note: All vaules are in ug/L unless otherwise noted.
PAL - Preventative Action Limit
ES - Enforcement Standard
NA - Not Analyzed
NM - Not Measured
Bold - Result exceeds the ES
Bold - Result exceeds the PAL
Q / J - Result estimated. Analyte detected between limits of detection and quantification.

Table 4. Monitoring Well Casing and Water Level Elevations - Natural Cleaners, Bayside, WI

WELL	Elev USGS Datum	1/24/2008		6/11/2008		8/26/2008		6/25/2009	
		Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.75	18.86	668.89	12.46	675.29	6.79	680.96	6.16	681.59
MW-2	687.69	8.22	679.47	9.58	678.11	9.35	678.34	7.35	680.34
MW-2D	687.64	32.19	655.45	33.08	654.56	30.47	657.17	28.03	659.61
MW-3	686.99	22.05	664.94	18.72	668.27	14.85	672.14	13.82	673.17
MW-4	686.62	22.84	663.78	14.43	672.19	8.94	677.68	6.75	679.87

WELL	Elev USGS Datum	6/3/2010		9/16/2010		12/15/2010		4/5/2011	
		Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.75	10.27	677.48	5.50	682.25	9.98	677.77	9.50	678.25
MW-2	687.69	7.62	680.07	7.47	680.22	11.83	675.86	7.20	680.49
MW-2D	687.64	28.38	659.26	28.49	659.15	32.10	655.54	28.00	659.64
MW-3	686.99	15.15	671.84	14.33	672.66	16.20	670.79	15.61	671.38
MW-4	686.62	7.06	679.56	9.39	677.23	12.00	674.62	9.38	677.24

WELL	Elev USGS Datum	11/11/2013		2/19/2014		5/17/2017	
		Depth to Water	Water Elev	Depth to Water	Water Elev	Depth to Water	Water Elev
MW-1	687.80	4.74	683.06	11.01	676.79	7.03	680.77
MW-2	687.74	7.96	679.78	9.22	678.52	7.54	680.20
MW-2D	687.66	28.50	659.16	28.35	659.31	27.11	660.55
MW-3	687.05	13.98	673.07	15.90	671.15	14.34	672.71
MW-3D	687.01	NI	NI	NI	NI	48.35	638.66
MW-4	686.68	8.51	678.17	10.92	675.76	7.92	678.76
MW-5	687.57	NI	NI	NI	NI	20.70	666.87
GP-10	684.27	6.60	677.67	4.17	680.10	NS	NS
GP-11	684.43	3.95	680.48	3.33	681.10	0.51	683.92
GP-12	684.70	5.38	679.32	7.89	676.81	1.40	683.30
GP-13	686.92	7.05	679.87	5.06	681.86	1.25	685.67
GP-16	686.74	2.71	684.03	3.89	682.85	1.85	684.89
GP-17	687.92	3.40	684.52	4.17	683.75	3.23	684.69

Notes: All Water Elevations are in feet above mean sea level.
NI - Not Installed
NS - Not Sampled

ATTACHMENT 1

Boring Logs, Abandonment Forms, Well Construction Reports, and Well Development Forms

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Natural Cleaners		GP-20

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam/Dan Last Name: Firm: Horizon Construction	03/15/2017 (m m/ d d/ y y y y)	03/15/2017 (m m/ d d/ y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		no well	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
_____ N _____ E
_____ Feet ___ S _____ Feet ___ W

Facility ID	County	County Code	Civil Town / City / or Village
341140250	Milwaukee	41	Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Asphalt over Brown gravel base rock										
	4		2	Dark Brown Clayey Gravel, some sand.				1.9						
				Tan Gravel Base Rock.										
			4	-2' Brown Silty Clay, trace med sand, mod stiff,				1.6						
				some gray stringers, sl moist.										
			6					5.6						
	5													
			8											
								0.9						
			10											
	2			- no stringers				1.2						
			12											
				End of boring at 12 feet.										
			14	Boring abandoned upon completion.										
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

tate of Wisconsin
epartment of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

otice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance ith chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one ear, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

oute to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other: _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County
		Milwaukee

Common Boring Name	Gov't Lot # (if applicable)
GP-20	

¼ / ¼	¼	Section	Township	Range	
SW	SE	5	8 N	22	☒ E ☐ W

Grid Location
eet ☐ N ☐ S Feet ☐ E ☐ W ☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location

Latitude: DEG MIN SEC N Longitude: DEG MIN SEC W

Reason For Abandonment: Soil Boring Only

WI Unique Well No. of Replacement We: ___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Former Natural Cleaners

Facility ID	License/Permit/Monitoring No	City, Village or Town
		Bayside

Street Address of Boring: 8828 North Port Washington Road

Present Well Owner	Original Well Owner

Street Address or Route of Owner

City	State	ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date: 03/15/2017

If a Well Construction Report is available, please attach.

onstruction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

ormation Type:
☒ Unconsolidated Formation ☐ Bedrock

otal Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12.0	NA
ower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) NA

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

lame of Person or Firm Doing Sealing Work	Date of Abandonment
Horizon Drilling	03/15/2017
Street or Route: 764 Tower Drive	Telephone Number: ( )

ity	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021		

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Natural Cleaners		GP-21

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam/Dan Last Name: Firm: Horizon Construction	03/15/2017 (m m/ d d/ y y y y)	03/15/2017 (m m/ d d/ y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		no well	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
_____ N _____ E
_____ Feet S _____ Feet W

Facility ID	County	County Code	Civil Town / City / or Village
341140250	Milwaukee	41	Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
	2		2	Asphalt over Brown gravel base rock Dark Brown Clayey Gravel, some sand. Tan Gravel Base Rock.				8.9						
			4	-2' Dark Brown Silty Clay, trace med sand. Brown Silty Clay, trace med sand.										
	4		6	Brown Silt Clay, mod stiff, trace med sand, gray stringers, sl moist.				33						
			8	- fine sand and silt layer 2"				31.7						
	2		10					55						
			12	End of boring at 12 feet. Boring abandoned upon completion.										
			14											
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03) Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other: _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County
_ _ _ _ _ _		Milwaukee

Common Boring Name	Gov't Lot # (if applicable)
GP-21	

¼ / ¼	¼	Section	Township	Range	
SW	SE	5	8 N	22	☒ E ☐ W

Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W ☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location

Latitude: DEG MIN SEC	Longitude: DEG MIN SEC
N	W

Reason For Abandonment: Soil Boring Only

WI Unique Well No. of Replacement Well: _ _ _ _ _ _

2. Facility / Owner Information

Facility Name: Former Natural Cleaners

Facility ID	License/Permit/Monitoring No	City, Village or Town
		Bayside

Street Address of Boring: 8828 North Port Washington Road

Present Well Owner	Original Well Owner

Street Address or Route of Owner:

City	State	ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date: 03/15/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12.0	NA
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.0	NA

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Sealing Work	Date of Abandonment
Horizon Drilling	03/15/2017
Street or Route	**Telephone Number**
764 Tower Drive	( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021		

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Natural Cleaners		GP-22

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam/Dan Last Name: Firm: Horizon Construction	03/15/2017 (m m/ d d/ y y y y)	03/15/2017 (m m/ d d/ y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		no well	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
_____ N ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID	County	County Code	Civil Town / City / or Village
341140250	Milwaukee	41	Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
	3.5		2	Asphalt over Brown gravel base rock Dark Brown Clayey Gravel, some sand. Tan Gravel Base Rock.				41						
			4	Dark Brown Silty Clay, trace med sand. - 2' Brown Silt Clay, mod stiff, trace coarse sand,										
	5		6	gray stringers, sl moist.				49						
			8	- no stringers				56						
	2		10					4.1						
			12	End of boring at 12 feet. Boring abandoned upon completion.										
			14											
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

tate of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

otice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance ith chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one ear, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

oute to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other: _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County
___ ___ ___ ___ ___		Milwaukee

Common Boring Name	Gov't Lot # (if applicable)
GP-22	

¼ / ¼	¼	Section	Township	Range	
SW	SE	5	8 N	22	☒ E ☐ W

Grid Location
eet ☐ N ☐ S Feet ☐ E ☐ W ☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location

Latitude: DEG MIN SEC N Longitude: DEG MIN SEC W

Reason For Abandonment: Soil Boring Only

WI Unique Well No. of Replacement We: ___ ___ ___ ___ ___

2. Facility / Owner Information

Facility Name: Former Natural Cleaners

Facility ID	License/Permit/Monitoring No	City, Village or Town
		Bayside

Street Address of Boring: 8828 North Port Washington Road

Present Well Owner	Original Well Owner

Street Address or Route of Owner

City	State	ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date: 03/15/2017

If a Well Construction Report is available, please attach.

onstruction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

ormation Type:
☒ Unconsolidated Formation ☐ Bedrock

otal Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12.0	NA
ower Drillhole Diameter (in.) 2.0	Casing Depth (ft.) NA

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

lame of Person or Firm Doing Sealing Work	Date of Abandonment
Horizon Drilling	03/15/2017
Street or Route: 764 Tower Drive	Telephone Number: ( )

ity	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021		

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Natural Cleaners		GP-23

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam/Dan Last Name: Firm: Horizon Construction	03/15/2017 (m m/ d d/ y y y y)	03/15/2017 (m m/ d d/ y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		no well	Feet MSL	Feet MSL	2 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
___ N ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID	County	County Code	Civil Town / City / or Village
341140250	Milwaukee	41	Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			0	Asphalt over Brown gravel base rock										
	2.5		2	Dark Brown Clayey Gravel, some sand.				1.2						
				Tan Gravel Base Rock.										
			4	Dark Brown Silty Clay, trace med sand.				0.8						
				-2' Brown Silty Clay, trace med sand.										
	5		6	-5' Brown Silt Clay, mod stiff, trace coarse sand, gray stringers, sl moist.				1.4						
			8					2.8						
	2		10					0.9						
			12											
			14	End of boring at 12 feet.										
			16	Boring abandoned upon completion.										
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

tate of Wisconsin
.epartment of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

otice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance ith chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one ear, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

oute to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other: _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County
— — — — —		Milwaukee

Common Boring Name	Gov't Lot # (if applicable)
GP-23	

¼ / ¼	¼	Section	Township	Range
SW	SE	5	8 N	22 ☒ E ☐ W

Grid Location
eet ☐ N ☐ S Feet ☐ E ☐ W ☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location

Latitude: DEG MIN SEC	Longitude: DEG MIN SEC
N	W

Reason For Abandonment	WI Unique Well No. of Replacement We
Soil Boring Only	— — — — —

2. Facility / Owner Information

Facility Name		
Former Natural Cleaners		
Facility ID	**License/Permit/Monitoring No**	**City, Village or Town**
		Bayside

Street Address of Boring: 8828 North Port Washington Road

Present Well Owner	Original Well Owner

Street Address or Route of Owner

City	State	ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date: 03/15/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12.0	NA
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.0	NA

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Sealing Work	Date of Abandonment
Horizon Drilling	03/15/2017
Street or Route	**Telephone Number**
764 Tower Drive	( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021		

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Natural Cleaners		GP-24

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam/Dan Last Name: Firm: Horizon Construction	03/15/2017	03/15/2017	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		no well	Feet MSL	Feet MSL	2 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
___ N ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID	County	County Code	Civil Town / City / or Village
341140250	Milwaukee	41	Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Asphalt over Brown gravel base rock										
			2	Dark Brown Sandy Gravel, some fines.				1.8						
	3			Tan Gravel Base Rock.										
			4	-1' Dark Brown Silty Clay, trace med sand.				0.5						
				-3' Brown Silty Clay, soft, moist										
			6	-5' Brown Silt Clay, mod stiff, trace sand and				1.7						
				gravel, gray stringers, sl moist.										
	5		8	- silt seam										
								2.9						
			10											
	2			- no stringers				1.7						
			12											
				End of boring at 12 feet.										
			14	Boring abandoned upon completion.										
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between $10 and $25,000, or inprisonment for up to one year, depending on the program and consuct invloved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921

Well / Drillhole / Borehole Abandonment

Form 3300-005 (R 10/03)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between $10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Route to:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Waste Management ☒ Remediation/Redevelopment ☐ Other: _____

1. General Information

WI Unique Well No.	DNR Well ID No.	County
_ _ _ _ _		Milwaukee

Common Boring Name	Gov't Lot # (if applicable)
GP-24	

¼ / ¼	¼	Section	Township	Range	
SW	SE	5	8 N	22	☒ E ☐ W

Grid Location
Feet ☐ N ☐ S Feet ☐ E ☐ W ☐ Local Grid Origin ☐ (estimated) OR ☐ Well Location

Latitude: DEG MIN SEC	Longitude: DEG MIN SEC
N	W

Reason For Abandonment	WI Unique Well No. of Replacement We
Soil Boring Only	_ _ _ _ _

2. Facility / Owner Information

Facility Name		
Former Natural Cleaners		
Facility ID	**License/Permit/Monitoring No**	**City, Village or Town**
		Bayside

Street Address of Boring: 8828 North Port Washington Road

Present Well Owner	Original Well Owner

Street Address or Route of Owner

City	State	ZIP Code

3. Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date: 03/15/2017

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Groundsurface (ft.)	Casing Diameter (in.)
12.0	NA
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
2.0	NA

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☐ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☒ Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☒ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
☐ Neat Cement Grout ☐ Clay-Sand Slurry (11 lb./gal. wt.)
☐ Sand-Cement (Concrete) Grout ☐ Bentonite-Sand Slurry " "
☐ Concrete ☐ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☒ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Asphalt Patch	Surface	0.5		
Chipped bentonite	0.5	12.0		

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Sealing Work	Date of Abandonment
Horizon Drilling	03/15/2017
Street or Route	**Telephone Number**
764 Tower Drive	( )

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Fredonia	WI	53021		

DNR Use Only

Date Received	Noted By
Comments	

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name: former Natural Cleaners	License/Permit/Monitoring Number:	Boring Number: MW-3D

Boring Drilled By: Name of crew chief (first,last) and Firm First Name: Adam/Dan Last Name: Firm: Horizon Construction	Date Drilling Started 0 3 1 5 2 0 1 7 m m/ d d/ y y y y	Date Drilling Completed 0 3 1 5 2 0 1 7 m m/ d d/ y y y y	Drilling Method Geoprobe then HSA
WI Unique Well No. / DNR Well ID No. / Well Name: MW-3D	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 then 8 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
___ N ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID: 341140250	County: Milwaukee	County Code: 41	Civil Town / City / or Village: Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2	Boring blind drilled to 25 feet.										
			4	Please see boring log MW-3 for description.										
			6											
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: KPRG and Associates, Inc.

Boring: MW-3D Site: former Natural Cleaners

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			24											
	3		26	Gray Silty Clay, trace coarse sand to fine gravel, sl moist.				0.7						
	5		28 30	- 29' to 32' silt and fine sand seams				1.1						
	5		32 34 36					1.4						
	5		38 40 42					1.5						
	5		44 46					0.9						
			48 50											
			52	End of Boring at 50 feet. Boring converted to monitoring well.										
			54 56 58 60 62											

State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Former Natural Cleaners	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-3D
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 341140250	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 03/15/2017 (m m / d d / y y y y)
Type of Well — Well Code: 11 / mw	Section Location of Waste/Source: SW 1/4 of SE 1/4 of Sec. 5, T. 8 N, R. 22 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: A. Sweet / Horizon Drilling
Distance from Waste/Source _____ ft. — Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 Hollow Stem Auger ☐ 41 Other ☒ Geoprobe/HSA

15. Drilling fluid used: Water ☐ 02 Air ☐ 01 Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 43 ft.

G. Filter pack, top _____ ft. MSL or 43 ft.

H. Screen joint, top _____ ft. MSL or 45 ft.

I. Well bottom _____ ft. MSL or 50 ft.

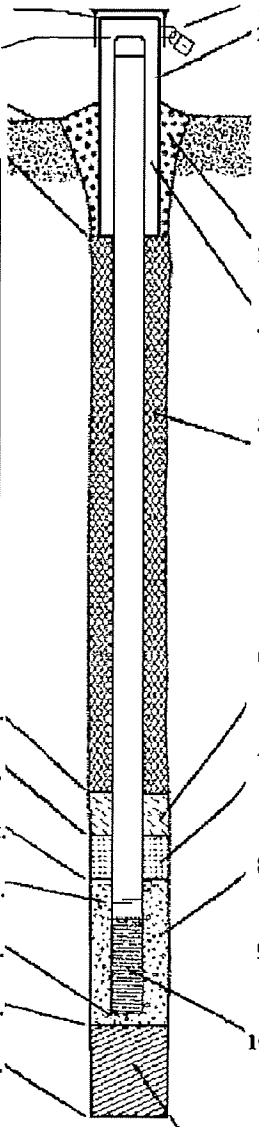
J. Filter pack, bottom _____ ft. MSL or 50 ft.

K. Borehole, bottom _____ ft. MSL or 50 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing _____ in.

N. I.D. well casing 2.0 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 Concrete ☒ 01 Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 Other ☐ _____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.010 in.
d. Slotted length: 5 ft.

11. Backfill material (below filter pack): None ☒ 14 Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

Facility/Project Name	County Name	Well Name
former Natural Cleaners	Milwaukee	MW-3D

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_ _ _ _ _ _	_ _ _

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒ 41
surged with bailer and pumped	☐ 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well __ __ 80 __ min.

4. Depth of well (from top of well casisng) __ 50.3 __ . __ ft.

5. Inside diameter of well __ 2 . __ __ in.

6. Volume of water in filter pack and well casing __ __ __ . __ gal.

7. Volume of water removed from well __ __ 2 . 5 gal.

8. Volume of water added (if any) __ __ 0 . __ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. __ 46.1 . __ __ ft.	50.3 __ . __ __ ft.
Date	b. 05 / 11 / 2017 (m m d d y y y y)	05 / 11 / 2017 (m m d d y y y y)
Time	c. 12 : 45 ☐ a.m. ☐ p.m.	14 : 05 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	__ 0 . __ inches	__ 0 . __ inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	__ __ __ __ . __ mg/l	__ __ __ __ . __ mg/l
15. COD	__ __ __ __ . __ mg/l	__ __ __ __ . __ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Patrick Last Name: Allenstein
Firm: KPRG and Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: former Natural Cleaners
Street: 8828 Port Washington Road
City/State/Zip: Bayside, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Patrick Allenstein
Firm: KPRG and Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed / Wastewater ☐ Waste Management ☐
Remediation / Redevelopment ☑ Other ☐ _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
former Natural Cleaners		MW-5

Boring Drilled By: Name of crew chief (first,last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Adam/Dan Last Name: Firm: Horizon Construction	03/15/2017 (m m/ d d/ y y y y)	03/15/2017 (m m/ d d/ y y y y)	Geoprobe then HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		MW-05	_____ Feet MSL	_____ Feet MSL	2 then 8 inches

Local Grid Origin (estimated:) or Boring Location
State Plane _____ N, _____ E
SW 1/4 of SE 1/4 of Section 5, T 8 N, R 22 E
Lat _____ Long _____

Local Grid Location
_____ Feet ___ N _____ Feet ___ E
_____ Feet ___ S _____ Feet ___ W

Facility ID	County	County Code	Civil Town / City / or Village
341140250	Milwaukee	41	Bayside

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			0	Asphalt over Brown gravel base rock										
	3		2	Dark Brown Sandy Gravel, some fines. Tan Gravel Base Rock.				2.4						
			4	-1' Dark Brown Silty Clay, trace med sand. -2' Brown Silty Clay, mod soft, sl moist				1.3						
	5		6	-5' Brown Silt Clay, trace med to coarse sand, gray stringers, sl moist.				4.1						
			8					3.2						
	5		10	- no stringers				812						
			12											
			14	- silt and fine sand seam				430						
	2		16	Gray Silty Clay, trace med sand, sl moist.										
			18					520						
			20					333						
			22											

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

Site: former Natural Cleaners Boring: MW-5

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				from above										
			24	Gray Silty Clay, trace med sand, sl moist.				510						
			26	End of Boring at 25 feet.										
			28	Boring converted to monitoring well.										
			30											
			32											
			34											
			36											
			38											
			40											
			42											
			44											
			46											
			48											
			50											
			52											
			54											
			56											
			58											
			60											
			62											

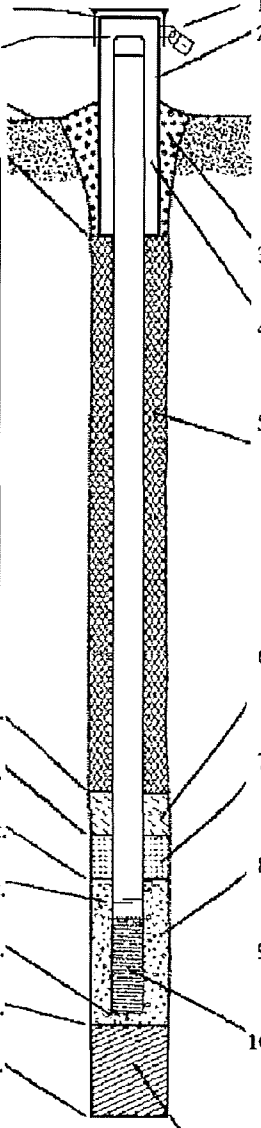
State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☒ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Former Natural Cleaners	Local Grid Location of Well: _____ ft. ☐ N. ☐ S. _____ ft. ☐ E. ☐ W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID: 341140250	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 03/15/2017 (m m / d d / y y y y)
Type of Well — Well Code: 11 / mw	Section Location of Waste/Source: SW 1/4 of SE 1/4 of Sec. 5, T. 8 N, R. 22 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: A. Sweet / Horizon Drilling
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number:



A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe/HSA Other ☒

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 8 ft.

G. Filter pack, top _____ ft. MSL or 8 ft.

H. Screen joint, top _____ ft. MSL or 10 ft.

I. Well bottom _____ ft. MSL or 25 ft.

J. Filter pack, bottom _____ ft. MSL or 25 ft.

K. Borehole, bottom _____ ft. MSL or 25 ft.

L. Borehole, diameter 8 in.

M. O.D. well casing _____ in.

N. I.D. well casing 2.0 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 12 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04
_____ Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
_____ Other ☐

4. Material between well casing and protective pipe:
Bentonite ☒ 30
_____ Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐

10. Screen material: _____
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer _____
c. Slot size: 0.010 in.
d. Slotted length: 15 ft.

11. Backfill material (below filter pack): None ☒ 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature	Firm
	KPRG and Associates, Inc.

Please complete both Forms 4400-113A and 4400-113B and return them to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between $10 and $25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☒ Other ☐ _____

Facility/Project Name	County Name	Well Name
former Natural Cleaners	Milwaukee	MW-5

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	41	_ _ _ _ _ _	_ _ _

1. Can this well be purged dry? ☒ Yes ☐ No

2. Well development method

surged with bailer and bailed	☒	41
surged with bailer and pumped	☐	61
surged with block and bailed	☐	42
surged with block and pumped	☐	62
surged with block, bailed and pumped	☐	70
compressed air	☐	20
bailed only	☐	10
pumped only	☐	51
pumped slowly	☐	50
Other _____	☐	

3. Time spent developing well 60 min.

4. Depth of well (from top of well casisng) 25.2 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing _ _ _ . _ gal.

7. Volume of water removed from well 5 . 0 gal.

8. Volume of water added (if any) 0 gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☒ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 10.2 ft.	25.2 ft.
Date	b. 05/11/2017 (m m d d y y y y)	05/11/2017 (m m d d y y y y)
Time	c. 13:45 ☐ a.m. ☐ p.m.	14:45 ☐ a.m. ☐ p.m.
12. Sediment in well bottom	0 inches	0 inches
13. Water clarity	Clear ☐ 10 Turbid ☒ 15 (Describe)	Clear ☒ 20 Turbid ☐ 25 (Describe)
14. Total suspended solids	_ _ _ _ . _ mg/l	_ _ _ _ . _ mg/l
15. COD	_ _ _ _ . _ mg/l	_ _ _ _ . _ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Patrick Last Name: Allenstein
Firm: KPRG and Associates, Inc.

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: _____ Last Name: _____
Facility/Firm: former Natural Cleaners
Street: 8828 Port Washington Road
City/State/Zip: Bayside, WI

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Patrick Allenstein
Firm: KPRG and Associates, Inc.

NOTE: See instructions for more information including a list of county codes and well type codes.

ATTACHMENT 2

Analytical Data Packages

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

December 07, 2017

Rich Gnat
KPRG and Associates, Inc.
14665 W. Lisbon Rd.
Suite 2B
Brookfield, WI 53005

RE: Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Dear Rich Gnat:
Enclosed are the analytical results for sample(s) received by the laboratory on December 05, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Josh Davenport, KPRG and Associates, Inc.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40161815001	MW-3D	Water	12/01/17 11:50	12/05/17 08:15
40161815002	MW-5	Water	12/01/17 13:00	12/05/17 08:15
40161815003	DUP	Water	12/01/17 00:00	12/05/17 08:15
40161815004	TRIP BLANK	Water	12/01/17 00:00	12/05/17 08:15

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40161815001	MW-3D	EPA 8260	HNW	13	PASI-G
40161815002	MW-5	EPA 8260	HNW	13	PASI-G
40161815003	DUP	EPA 8260	HNW	13	PASI-G
40161815004	TRIP BLANK	EPA 8260	HNW	13	PASI-G

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SUMMARY OF DETECTION

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40161815002	**MW-5**					
EPA 8260	Tetrachloroethene	4.0	ug/L	1.0	12/06/17 16:32	
EPA 8260	Trichloroethene	1.5	ug/L	1.0	12/06/17 16:32	
EPA 8260	cis-1,2-Dichloroethene	1.7	ug/L	1.0	12/06/17 16:32	
40161815003	**DUP**					
EPA 8260	Tetrachloroethene	3.6	ug/L	1.0	12/06/17 16:54	
EPA 8260	Trichloroethene	1.3	ug/L	1.0	12/06/17 16:54	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	12/06/17 16:54	

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(920)469-2436

ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: MW-3D **Lab ID: 40161815001** Collected: 12/01/17 11:50 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/06/17 16:10	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/06/17 16:10	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/06/17 16:10	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/06/17 16:10	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/06/17 16:10	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/06/17 16:10	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/06/17 16:10	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/06/17 16:10	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/06/17 16:10	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/06/17 16:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-130		1		12/06/17 16:10	460-00-4	
Dibromofluoromethane (S)	94	%	67-130		1		12/06/17 16:10	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		12/06/17 16:10	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: MW-5 **Lab ID: 40161815002** Collected: 12/01/17 13:00 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/06/17 16:32	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/06/17 16:32	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/06/17 16:32	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/06/17 16:32	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/06/17 16:32	107-06-2	
Tetrachloroethene	**4.0**	ug/L	1.0	0.50	1		12/06/17 16:32	127-18-4	
Trichloroethene	**1.5**	ug/L	1.0	0.33	1		12/06/17 16:32	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/06/17 16:32	75-01-4	
cis-1,2-Dichloroethene	**1.7**	ug/L	1.0	0.26	1		12/06/17 16:32	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/06/17 16:32	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	91	%	61-130		1		12/06/17 16:32	460-00-4	
Dibromofluoromethane (S)	97	%	67-130		1		12/06/17 16:32	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/06/17 16:32	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: DUP **Lab ID: 40161815003** Collected: 12/01/17 00:00 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/06/17 16:54	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/06/17 16:54	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/06/17 16:54	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/06/17 16:54	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/06/17 16:54	107-06-2	
Tetrachloroethene	**3.6**	ug/L	1.0	0.50	1		12/06/17 16:54	127-18-4	
Trichloroethene	**1.3**	ug/L	1.0	0.33	1		12/06/17 16:54	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/06/17 16:54	75-01-4	
cis-1,2-Dichloroethene	**1.5**	ug/L	1.0	0.26	1		12/06/17 16:54	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/06/17 16:54	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	92	%	61-130		1		12/06/17 16:54	460-00-4	
Dibromofluoromethane (S)	100	%	67-130		1		12/06/17 16:54	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/06/17 16:54	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Sample: TRIP BLANK **Lab ID: 40161815004** Collected: 12/01/17 00:00 Received: 12/05/17 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		12/06/17 12:54	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		12/06/17 12:54	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		12/06/17 12:54	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		12/06/17 12:54	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		12/06/17 12:54	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		12/06/17 12:54	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		12/06/17 12:54	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		12/06/17 12:54	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/06/17 12:54	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		12/06/17 12:54	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-130		1		12/06/17 12:54	460-00-4	
Dibromofluoromethane (S)	98	%	67-130		1		12/06/17 12:54	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		12/06/17 12:54	2037-26-5	

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QUALITY CONTROL DATA

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

QC Batch: 276249 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40161815001, 40161815002, 40161815003, 40161815004

METHOD BLANK: 1624805 Matrix: Water
Associated Lab Samples: 40161815001, 40161815002, 40161815003, 40161815004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	12/06/17 09:15	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	12/06/17 09:15	
1,1-Dichloroethane	ug/L	<0.24	1.0	12/06/17 09:15	
1,1-Dichloroethene	ug/L	<0.41	1.0	12/06/17 09:15	
1,2-Dichloroethane	ug/L	<0.17	1.0	12/06/17 09:15	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	12/06/17 09:15	
Tetrachloroethene	ug/L	<0.50	1.0	12/06/17 09:15	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	12/06/17 09:15	
Trichloroethene	ug/L	<0.33	1.0	12/06/17 09:15	
Vinyl chloride	ug/L	<0.18	1.0	12/06/17 09:15	
4-Bromofluorobenzene (S)	%	91	61-130	12/06/17 09:15	
Dibromofluoromethane (S)	%	100	67-130	12/06/17 09:15	
Toluene-d8 (S)	%	105	70-130	12/06/17 09:15	

LABORATORY CONTROL SAMPLE: 1624806

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.2	100	70-130	
1,1,2-Trichloroethane	ug/L	50	59.6	119	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	71-132	
1,1-Dichloroethene	ug/L	50	53.0	106	75-130	
1,2-Dichloroethane	ug/L	50	54.7	109	70-131	
cis-1,2-Dichloroethene	ug/L	50	55.8	112	70-130	
Tetrachloroethene	ug/L	50	54.2	108	70-130	
trans-1,2-Dichloroethene	ug/L	50	53.0	106	75-132	
Trichloroethene	ug/L	50	55.3	111	70-130	
Vinyl chloride	ug/L	50	49.2	98	57-136	
4-Bromofluorobenzene (S)	%			98	61-130	
Dibromofluoromethane (S)	%			103	67-130	
Toluene-d8 (S)	%			104	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624938 1624939

Parameter	Units	40161867012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<2.5	1000	1000	978	1040	98	104	70-134	6	20	
1,1,2-Trichloroethane	ug/L	<0.99	1000	1000	1050	1210	105	121	70-130	14	20	
1,1-Dichloroethane	ug/L	<1.2	1000	1000	1030	1070	103	107	71-133	4	20	

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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QUALITY CONTROL DATA

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1624938 1624939

Parameter	Units	40161867012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	<2.1	1000	1000	1050	1070	105	107	75-136	2	20	
1,2-Dichloroethane	ug/L	<0.84	1000	1000	997	1090	100	109	70-131	9	20	
cis-1,2-Dichloroethene	ug/L	<1.3	1000	1000	962	1010	96	101	70-130	5	20	
Tetrachloroethene	ug/L	<2.5	1000	1000	1030	1120	103	112	70-130	8	20	
trans-1,2-Dichloroethene	ug/L	<1.3	1000	1000	1050	1080	105	108	75-135	3	20	
Trichloroethene	ug/L	<1.7	1000	1000	1030	1090	103	109	70-130	6	20	
Vinyl chloride	ug/L	<0.88	1000	1000	1040	1080	104	108	56-143	3	20	
4-Bromofluorobenzene (S)	%						99	97	61-130			
Dibromofluoromethane (S)	%						102	105	67-130			
Toluene-d8 (S)	%						103	102	70-130			

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: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18806 FORMER NATURAL CLEANERS
Pace Project No.: 40161815

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40161815001	MW-3D	EPA 8260	276249		
40161815002	MW-5	EPA 8260	276249		
40161815003	DUP	EPA 8260	276249		
40161815004	TRIP BLANK	EPA 8260	276249		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

40161815

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	KPRG & Assoc
Branch/Location:	Brookfield
Project Contact:	Rich Gnat
Phone:	262 781 0475
Project Number:	18806
Project Name:	Former Natural Cleaners
Project State:	WI
Sampled By (Print):	L. Reuteman
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, B = Biota, C = Charcoal, O = Oil, S = Soil, SL = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	Analyses Requested: FILTERED? (YES/NO)	Y/N	PRESERVATION (CODE)* Pick Letter	VOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-3D	12/1	1150	GW		N	B	X	3-40mlVB		
002	MW-5	12/1	1300	GW				X	↓		
003	DUP	12/1	—	GW				X			
004	Trip Blank	—	—	W				X	1-40mlVB		

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	12/4/17 1410	Mary Fannin	12/4/17 1410
Mary Fannin	12/4/17 1515		
CS Logistics	12/5/17 0815		12/5/17 0815

PACE Project No.: 40161815

Receipt Temp = 2.01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Pace Analytical

Sample Condition Upon Receipt

Pace Analytical Services, LLC. - Green Bay WI
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Project #: **WO# : 40161815**

40161815

Client Name: KPRG1

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace ☑ Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: R01 **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
Date: 12/5/17
Initials: KJ

			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 & Signature on COC:	☑Yes	☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No ☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☑No ☐N/A	7.
Sufficient Volume:	☐Yes	☑No ☐N/A	8. no MS/MSD KJ 12/5/17
Correct Containers Used:	☑Yes	☐No ☐N/A	9.
-Pace Containers Used:	☑Yes	☐No ☐N/A	
-Pace IR Containers Used:	☐Yes	☐No ☑N/A	
Containers Intact:	☑Yes	☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No ☑N/A	11.
Sample Labels match COC:	☑Yes	☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W			
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No ☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No ☑N/A	
exceptions: VOA coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☑Yes	☐No	Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☑No ☐N/A	14.
Trip Blank Present:	☑Yes	☐No ☐N/A	15.
Trip Blank Custody Seals Present	☑Yes	☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 3860			

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: RMR for NM **Date:** 12/5/17

Pace Analytical Services, LLC
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March 23, 2017

Rich Gnat
KPRG and Associates, Inc.
14665 W. Lisbon Rd.
Suite 2B
Brookfield, WI 53005

RE: Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Dear Rich Gnat:
Enclosed are the analytical results for sample(s) received by the laboratory on March 18, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Josh Davenport, KPRG and Associates, Inc.

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

SAMPLE SUMMARY

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40146960001	GP-20 1-3	Solid	03/15/17 10:00	03/18/17 08:30
40146960002	GP-20 5-7	Solid	03/15/17 10:05	03/18/17 08:30
40146960003	GP-21 1-3	Solid	03/15/17 10:30	03/18/17 08:30
40146960004	GP-21 10-12	Solid	03/15/17 10:35	03/18/17 08:30
40146960005	GP-22 1-3	Solid	03/15/17 11:00	03/18/17 08:30
40146960006	GP-22 8-10	Solid	03/15/17 11:05	03/18/17 08:30
40146960007	GP-23 1-3	Solid	03/15/17 15:20	03/18/17 08:30
40146960008	GP-23 8-10	Solid	03/15/17 15:25	03/18/17 08:30
40146960009	GP-24 1-3	Solid	03/15/17 16:00	03/18/17 08:30
40146960010	GP-24 8-10	Solid	03/15/17 16:05	03/18/17 08:30
40146960011	MW-5 1-3	Solid	03/15/17 11:30	03/18/17 08:30
40146960012	MW-5 10-12	Solid	03/15/17 11:35	03/18/17 08:30

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SAMPLE ANALYTE COUNT

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40146960001	GP-20 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960002	GP-20 5-7	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960003	GP-21 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960004	GP-21 10-12	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960005	GP-22 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960006	GP-22 8-10	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960007	GP-23 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960008	GP-23 8-10	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	AH	1	PASI-G
40146960009	GP-24 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40146960010	GP-24 8-10	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40146960011	MW-5 1-3	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G
40146960012	MW-5 10-12	EPA 8260	SMT	13	PASI-G
		ASTM D2974-87	KTS	1	PASI-G

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SUMMARY OF DETECTION

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40146960001	**GP-20 1-3**					
EPA 8260	Tetrachloroethene	138	ug/kg	71.6	03/22/17 13:01	
EPA 8260	Vinyl chloride	51.5J	ug/kg	71.6	03/22/17 13:01	
ASTM D2974-87	Percent Moisture	16.2	%	0.10	03/20/17 10:38	
40146960002	**GP-20 5-7**					
EPA 8260	cis-1,2-Dichloroethene	142	ug/kg	70.7	03/21/17 17:46	
EPA 8260	trans-1,2-Dichloroethene	38.3J	ug/kg	70.7	03/21/17 17:46	
EPA 8260	Tetrachloroethene	949	ug/kg	70.7	03/21/17 17:46	
EPA 8260	Trichloroethene	668	ug/kg	70.7	03/21/17 17:46	
ASTM D2974-87	Percent Moisture	15.1	%	0.10	03/20/17 10:38	
40146960003	**GP-21 1-3**					
EPA 8260	cis-1,2-Dichloroethene	159	ug/kg	71.6	03/21/17 18:09	
EPA 8260	trans-1,2-Dichloroethene	207	ug/kg	71.6	03/21/17 18:09	
EPA 8260	Tetrachloroethene	90.7	ug/kg	71.6	03/21/17 18:09	
EPA 8260	Trichloroethene	68.3J	ug/kg	71.6	03/21/17 18:09	
EPA 8260	Vinyl chloride	321	ug/kg	71.6	03/21/17 18:09	
ASTM D2974-87	Percent Moisture	16.1	%	0.10	03/20/17 10:38	
40146960004	**GP-21 10-12**					
EPA 8260	cis-1,2-Dichloroethene	573J	ug/kg	698	03/21/17 20:25	
EPA 8260	Tetrachloroethene	54200	ug/kg	698	03/21/17 20:25	
EPA 8260	Trichloroethene	3440	ug/kg	698	03/21/17 20:25	
ASTM D2974-87	Percent Moisture	14.1	%	0.10	03/20/17 10:38	
40146960005	**GP-22 1-3**					
EPA 8260	Tetrachloroethene	149	ug/kg	72.9	03/21/17 18:31	
EPA 8260	Vinyl chloride	42.6J	ug/kg	72.9	03/21/17 18:31	
ASTM D2974-87	Percent Moisture	17.7	%	0.10	03/20/17 10:38	
40146960006	**GP-22 8-10**					
EPA 8260	Tetrachloroethene	7480	ug/kg	137	03/21/17 20:47	
EPA 8260	Trichloroethene	750	ug/kg	137	03/21/17 20:47	
ASTM D2974-87	Percent Moisture	12.4	%	0.10	03/20/17 10:38	
40146960007	**GP-23 1-3**					
EPA 8260	Tetrachloroethene	88.4	ug/kg	70.9	03/21/17 18:54	
EPA 8260	Vinyl chloride	54.3J	ug/kg	70.9	03/21/17 18:54	
ASTM D2974-87	Percent Moisture	15.4	%	0.10	03/20/17 10:38	
40146960008	**GP-23 8-10**					
EPA 8260	Tetrachloroethene	3460	ug/kg	70.5	03/21/17 19:17	
EPA 8260	Trichloroethene	316	ug/kg	70.5	03/21/17 19:17	
ASTM D2974-87	Percent Moisture	14.9	%	0.10	03/20/17 10:38	
40146960009	**GP-24 1-3**					
EPA 8260	Tetrachloroethene	635	ug/kg	72.0	03/22/17 13:24	
EPA 8260	Trichloroethene	226	ug/kg	72.0	03/22/17 13:24	
ASTM D2974-87	Percent Moisture	16.7	%	0.10	03/18/17 12:13	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40146960010	**GP-24 8-10**					
EPA 8260	cis-1,2-Dichloroethene	39.6J	ug/kg	69.5	03/22/17 14:09	
EPA 8260	Tetrachloroethene	4690	ug/kg	69.5	03/22/17 14:09	
EPA 8260	Trichloroethene	403	ug/kg	69.5	03/22/17 14:09	
ASTM D2974-87	Percent Moisture	13.7	%	0.10	03/18/17 12:13	
40146960011	**MW-5 1-3**					
EPA 8260	cis-1,2-Dichloroethene	76.1	ug/kg	75.9	03/22/17 13:46	
EPA 8260	Tetrachloroethene	844	ug/kg	75.9	03/22/17 13:46	
EPA 8260	Trichloroethene	305	ug/kg	75.9	03/22/17 13:46	
ASTM D2974-87	Percent Moisture	20.9	%	0.10	03/18/17 12:13	
40146960012	**MW-5 10-12**					
EPA 8260	Tetrachloroethene	1670	ug/kg	70.2	03/22/17 12:39	
EPA 8260	Trichloroethene	78.5	ug/kg	70.2	03/22/17 12:39	
ASTM D2974-87	Percent Moisture	14.5	%	0.10	03/18/17 12:13	

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-20 1-3 **Lab ID: 40146960001** Collected: 03/15/17 10:00 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	156-60-5	W
Tetrachloroethene	**138**	ug/kg	71.6	29.8	1	03/22/17 07:00	03/22/17 13:01	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:01	79-01-6	W
Vinyl chloride	**51.5J**	ug/kg	71.6	29.8	1	03/22/17 07:00	03/22/17 13:01	75-01-4	
Surrogates									
Dibromofluoromethane (S)	108	%	53-165		1	03/22/17 07:00	03/22/17 13:01	1868-53-7	
Toluene-d8 (S)	109	%	54-163		1	03/22/17 07:00	03/22/17 13:01	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	03/22/17 07:00	03/22/17 13:01	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.2**	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-20 5-7 **Lab ID: 40146960002** Collected: 03/15/17 10:05 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	75-35-4	W
cis-1,2-Dichloroethene	**142**	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	156-59-2	
trans-1,2-Dichloroethene	**38.3J**	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	156-60-5	
Tetrachloroethene	**949**	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	79-00-5	W
Trichloroethene	**668**	ug/kg	70.7	29.4	1	03/21/17 07:30	03/21/17 17:46	79-01-6	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 17:46	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	125	%	53-165		1	03/21/17 07:30	03/21/17 17:46	1868-53-7	
Toluene-d8 (S)	117	%	54-163		1	03/21/17 07:30	03/21/17 17:46	2037-26-5	
4-Bromofluorobenzene (S)	106	%	48-138		1	03/21/17 07:30	03/21/17 17:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.1**	%	0.10	0.10	1		03/20/17 10:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-21 1-3 **Lab ID: 40146960003** Collected: 03/15/17 10:30 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	75-35-4	W
cis-1,2-Dichloroethene	**159**	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	156-59-2	
trans-1,2-Dichloroethene	**207**	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	156-60-5	
Tetrachloroethene	**90.7**	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:09	79-00-5	W
Trichloroethene	**68.3J**	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	79-01-6	
Vinyl chloride	**321**	ug/kg	71.6	29.8	1	03/21/17 07:30	03/21/17 18:09	75-01-4	
Surrogates									
Dibromofluoromethane (S)	106	%	53-165		1	03/21/17 07:30	03/21/17 18:09	1868-53-7	
Toluene-d8 (S)	102	%	54-163		1	03/21/17 07:30	03/21/17 18:09	2037-26-5	
4-Bromofluorobenzene (S)	91	%	48-138		1	03/21/17 07:30	03/21/17 18:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.1**	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-21 10-12 **Lab ID: 40146960004** Collected: 03/15/17 10:35 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	75-34-3	W
1,2-Dichloroethane	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	107-06-2	W
1,1-Dichloroethene	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	75-35-4	W
cis-1,2-Dichloroethene	**573J**	ug/kg	698	291	10	03/21/17 07:30	03/21/17 20:25	156-59-2	
trans-1,2-Dichloroethene	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	156-60-5	W
Tetrachloroethene	**54200**	ug/kg	698	291	10	03/21/17 07:30	03/21/17 20:25	127-18-4	
1,1,1-Trichloroethane	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	71-55-6	W
1,1,2-Trichloroethane	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	79-00-5	W
Trichloroethene	**3440**	ug/kg	698	291	10	03/21/17 07:30	03/21/17 20:25	79-01-6	
Vinyl chloride	**<250**	ug/kg	600	250	10	03/21/17 07:30	03/21/17 20:25	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	118	%	53-165		10	03/21/17 07:30	03/21/17 20:25	1868-53-7	
Toluene-d8 (S)	109	%	54-163		10	03/21/17 07:30	03/21/17 20:25	2037-26-5	
4-Bromofluorobenzene (S)	103	%	48-138		10	03/21/17 07:30	03/21/17 20:25	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.1**	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-22 1-3 **Lab ID: 40146960005** Collected: 03/15/17 11:00 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	156-60-5	W
Tetrachloroethene	**149**	ug/kg	72.9	30.4	1	03/21/17 07:30	03/21/17 18:31	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:31	79-01-6	W
Vinyl chloride	**42.6J**	ug/kg	72.9	30.4	1	03/21/17 07:30	03/21/17 18:31	75-01-4	
Surrogates									
Dibromofluoromethane (S)	93	%	53-165		1	03/21/17 07:30	03/21/17 18:31	1868-53-7	
Toluene-d8 (S)	87	%	54-163		1	03/21/17 07:30	03/21/17 18:31	2037-26-5	
4-Bromofluorobenzene (S)	81	%	48-138		1	03/21/17 07:30	03/21/17 18:31	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**17.7**	%	0.10	0.10	1		03/20/17 10:38		

REPORT OF LABORATORY ANALYSIS

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-22 8-10 **Lab ID: 40146960006** Collected: 03/15/17 11:05 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	75-34-3	W
1,2-Dichloroethane	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	107-06-2	W
1,1-Dichloroethene	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	75-35-4	W
cis-1,2-Dichloroethene	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	156-59-2	W
trans-1,2-Dichloroethene	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	156-60-5	W
Tetrachloroethene	**7480**	ug/kg	137	57.1	2	03/21/17 07:30	03/21/17 20:47	127-18-4	
1,1,1-Trichloroethane	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	71-55-6	W
1,1,2-Trichloroethane	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	79-00-5	W
Trichloroethene	**750**	ug/kg	137	57.1	2	03/21/17 07:30	03/21/17 20:47	79-01-6	
Vinyl chloride	**<50.0**	ug/kg	120	50.0	2	03/21/17 07:30	03/21/17 20:47	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	119	%	53-165		2	03/21/17 07:30	03/21/17 20:47	1868-53-7	
Toluene-d8 (S)	115	%	54-163		2	03/21/17 07:30	03/21/17 20:47	2037-26-5	
4-Bromofluorobenzene (S)	105	%	48-138		2	03/21/17 07:30	03/21/17 20:47	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**12.4**	%	0.10	0.10	1		03/20/17 10:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-23 1-3 **Lab ID: 40146960007** Collected: 03/15/17 15:20 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	156-60-5	W
Tetrachloroethene	**88.4**	ug/kg	70.9	29.6	1	03/21/17 07:30	03/21/17 18:54	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 18:54	79-01-6	W
Vinyl chloride	**54.3J**	ug/kg	70.9	29.6	1	03/21/17 07:30	03/21/17 18:54	75-01-4	
Surrogates									
Dibromofluoromethane (S)	111	%	53-165		1	03/21/17 07:30	03/21/17 18:54	1868-53-7	
Toluene-d8 (S)	106	%	54-163		1	03/21/17 07:30	03/21/17 18:54	2037-26-5	
4-Bromofluorobenzene (S)	95	%	48-138		1	03/21/17 07:30	03/21/17 18:54	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**15.4**	%	0.10	0.10	1		03/20/17 10:38		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-23 8-10 **Lab ID: 40146960008** Collected: 03/15/17 15:25 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	156-60-5	W
Tetrachloroethene	**3460**	ug/kg	70.5	29.4	1	03/21/17 07:30	03/21/17 19:17	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	79-00-5	W
Trichloroethene	**316**	ug/kg	70.5	29.4	1	03/21/17 07:30	03/21/17 19:17	79-01-6	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/21/17 07:30	03/21/17 19:17	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	113	%	53-165		1	03/21/17 07:30	03/21/17 19:17	1868-53-7	
Toluene-d8 (S)	111	%	54-163		1	03/21/17 07:30	03/21/17 19:17	2037-26-5	
4-Bromofluorobenzene (S)	100	%	48-138		1	03/21/17 07:30	03/21/17 19:17	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.9**	%	0.10	0.10	1		03/20/17 10:38		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-24 1-3 **Lab ID: 40146960009** Collected: 03/15/17 16:00 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	156-60-5	W
Tetrachloroethene	**635**	ug/kg	72.0	30.0	1	03/22/17 07:00	03/22/17 13:24	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	79-00-5	W
Trichloroethene	**226**	ug/kg	72.0	30.0	1	03/22/17 07:00	03/22/17 13:24	79-01-6	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:24	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	110	%	53-165		1	03/22/17 07:00	03/22/17 13:24	1868-53-7	
Toluene-d8 (S)	101	%	54-163		1	03/22/17 07:00	03/22/17 13:24	2037-26-5	
4-Bromofluorobenzene (S)	91	%	48-138		1	03/22/17 07:00	03/22/17 13:24	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**16.7**	%	0.10	0.10	1		03/18/17 12:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: GP-24 8-10 **Lab ID: 40146960010** Collected: 03/15/17 16:05 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	75-35-4	W
cis-1,2-Dichloroethene	**39.6J**	ug/kg	69.5	29.0	1	03/22/17 07:00	03/22/17 14:09	156-59-2	
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	156-60-5	W
Tetrachloroethene	**4690**	ug/kg	69.5	29.0	1	03/22/17 07:00	03/22/17 14:09	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	79-00-5	W
Trichloroethene	**403**	ug/kg	69.5	29.0	1	03/22/17 07:00	03/22/17 14:09	79-01-6	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 14:09	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	115	%	53-165		1	03/22/17 07:00	03/22/17 14:09	1868-53-7	
Toluene-d8 (S)	110	%	54-163		1	03/22/17 07:00	03/22/17 14:09	2037-26-5	
4-Bromofluorobenzene (S)	98	%	48-138		1	03/22/17 07:00	03/22/17 14:09	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.7**	%	0.10	0.10	1		03/18/17 12:13		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: MW-5 1-3 **Lab ID: 40146960011** Collected: 03/15/17 11:30 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	75-35-4	W
cis-1,2-Dichloroethene	**76.1**	ug/kg	75.9	31.6	1	03/22/17 07:00	03/22/17 13:46	156-59-2	
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	156-60-5	W
Tetrachloroethene	**844**	ug/kg	75.9	31.6	1	03/22/17 07:00	03/22/17 13:46	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	79-00-5	W
Trichloroethene	**305**	ug/kg	75.9	31.6	1	03/22/17 07:00	03/22/17 13:46	79-01-6	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 13:46	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	109	%	53-165		1	03/22/17 07:00	03/22/17 13:46	1868-53-7	
Toluene-d8 (S)	107	%	54-163		1	03/22/17 07:00	03/22/17 13:46	2037-26-5	
4-Bromofluorobenzene (S)	96	%	48-138		1	03/22/17 07:00	03/22/17 13:46	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**20.9**	%	0.10	0.10	1		03/18/17 12:13		

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ANALYTICAL RESULTS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Sample: MW-5 10-12 **Lab ID: 40146960012** Collected: 03/15/17 11:35 Received: 03/18/17 08:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	156-60-5	W
Tetrachloroethene	**1670**	ug/kg	70.2	29.2	1	03/22/17 07:00	03/22/17 12:39	127-18-4	
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	79-00-5	W
Trichloroethene	**78.5**	ug/kg	70.2	29.2	1	03/22/17 07:00	03/22/17 12:39	79-01-6	
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	03/22/17 07:00	03/22/17 12:39	75-01-4	W
Surrogates									
Dibromofluoromethane (S)	115	%	53-165		1	03/22/17 07:00	03/22/17 12:39	1868-53-7	
Toluene-d8 (S)	109	%	54-163		1	03/22/17 07:00	03/22/17 12:39	2037-26-5	
4-Bromofluorobenzene (S)	99	%	48-138		1	03/22/17 07:00	03/22/17 12:39	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**14.5**	%	0.10	0.10	1		03/18/17 12:13		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250720 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40146960002, 40146960003, 40146960004, 40146960005, 40146960006, 40146960007, 40146960008

METHOD BLANK: 1479754 Matrix: Solid
Associated Lab Samples: 40146960002, 40146960003, 40146960004, 40146960005, 40146960006, 40146960007, 40146960008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/21/17 11:21	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/21/17 11:21	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/21/17 11:21	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/21/17 11:21	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/21/17 11:21	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/21/17 11:21	
Tetrachloroethene	ug/kg	<12.9	50.0	03/21/17 11:21	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/21/17 11:21	
Trichloroethene	ug/kg	<23.6	50.0	03/21/17 11:21	
Vinyl chloride	ug/kg	<21.1	50.0	03/21/17 11:21	
4-Bromofluorobenzene (S)	%	93	48-138	03/21/17 11:21	
Dibromofluoromethane (S)	%	103	53-165	03/21/17 11:21	
Toluene-d8 (S)	%	101	54-163	03/21/17 11:21	

LABORATORY CONTROL SAMPLE: 1479755

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2840	114	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2570	103	70-130	
1,1-Dichloroethane	ug/kg	2500	2830	113	70-133	
1,1-Dichloroethene	ug/kg	2500	2650	106	70-130	
1,2-Dichloroethane	ug/kg	2500	3110	124	70-138	
cis-1,2-Dichloroethene	ug/kg	2500	2590	104	70-130	
Tetrachloroethene	ug/kg	2500	2430	97	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2540	102	70-130	
Trichloroethene	ug/kg	2500	2560	102	70-130	
Vinyl chloride	ug/kg	2500	2750	110	57-130	
4-Bromofluorobenzene (S)	%			102	48-138	
Dibromofluoromethane (S)	%			109	53-165	
Toluene-d8 (S)	%			104	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479756 1479757

Parameter	Units	40146959005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1610	1660	105	109	70-130	3	20	
1,1,2-Trichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1530	1640	100	107	70-130	7	20	

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479756 1479757

Parameter	Units	40146959005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1740	1720	114	113	64-133	1	20	
1,1-Dichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1490	1300	98	85	56-130	14	24	
1,2-Dichloroethane	ug/kg	<0.025 mg/kg	1530	1530	1910	1980	125	130	70-138	4	20	
cis-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1600	1640	105	108	70-130	2	20	
Tetrachloroethene	ug/kg	<0.025 mg/kg	1530	1530	1400	1380	92	90	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1480	1550	97	101	70-130	4	20	
Trichloroethene	ug/kg	<0.025 mg/kg	1530	1530	1550	1550	102	102	70-130	0	20	
Vinyl chloride	ug/kg	<0.025 mg/kg	1530	1530	1280	1310	84	86	26-130	2	20	
4-Bromofluorobenzene (S)	%						104	109	48-138			
Dibromofluoromethane (S)	%						114	119	53-165			
Toluene-d8 (S)	%						112	113	54-163			

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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(920)469-2436

QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250782 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40146960001, 40146960009, 40146960010, 40146960011, 40146960012

METHOD BLANK: 1479976 Matrix: Solid
Associated Lab Samples: 40146960001, 40146960009, 40146960010, 40146960011, 40146960012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	03/22/17 09:34	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	03/22/17 09:34	
1,1-Dichloroethane	ug/kg	<17.6	50.0	03/22/17 09:34	
1,1-Dichloroethene	ug/kg	<17.6	50.0	03/22/17 09:34	
1,2-Dichloroethane	ug/kg	<15.0	50.0	03/22/17 09:34	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	03/22/17 09:34	
Tetrachloroethene	ug/kg	<12.9	50.0	03/22/17 09:34	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	03/22/17 09:34	
Trichloroethene	ug/kg	<23.6	50.0	03/22/17 09:34	
Vinyl chloride	ug/kg	<21.1	50.0	03/22/17 09:34	
4-Bromofluorobenzene (S)	%	97	48-138	03/22/17 09:34	
Dibromofluoromethane (S)	%	112	53-165	03/22/17 09:34	
Toluene-d8 (S)	%	108	54-163	03/22/17 09:34	

LABORATORY CONTROL SAMPLE: 1479977

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2640	106	70-130	
1,1,2-Trichloroethane	ug/kg	2500	2250	90	70-130	
1,1-Dichloroethane	ug/kg	2500	2550	102	70-133	
1,1-Dichloroethene	ug/kg	2500	2500	100	70-130	
1,2-Dichloroethane	ug/kg	2500	2860	114	70-138	
cis-1,2-Dichloroethene	ug/kg	2500	2400	96	70-130	
Tetrachloroethene	ug/kg	2500	2240	90	70-130	
trans-1,2-Dichloroethene	ug/kg	2500	2300	92	70-130	
Trichloroethene	ug/kg	2500	2410	97	70-130	
Vinyl chloride	ug/kg	2500	2700	108	57-130	
4-Bromofluorobenzene (S)	%			93	48-138	
Dibromofluoromethane (S)	%			101	53-165	
Toluene-d8 (S)	%			98	54-163	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479978 1479979

Parameter	Units	40146960012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/kg	<25.0	1460	1460	1550	1420	106	97	70-130	8	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1460	1460	1480	1680	102	115	70-130	13	20	
1,1-Dichloroethane	ug/kg	<25.0	1460	1460	1680	1530	115	104	64-133	10	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1479978 1479979

Parameter	Units	40146960012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/kg	<25.0	1460	1460	1490	1330	102	91	56-130	11	24	
1,2-Dichloroethane	ug/kg	<25.0	1460	1460	1760	1850	120	127	70-138	5	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1460	1460	1590	1510	107	102	70-130	5	20	
Tetrachloroethene	ug/kg	1670	1460	1460	3100	3160	98	102	70-130	2	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1460	1460	1450	1340	99	91	70-130	8	20	
Trichloroethene	ug/kg	78.5	1460	1460	1540	1510	100	98	70-130	2	20	
Vinyl chloride	ug/kg	<25.0	1460	1460	1250	1130	86	77	26-130	10	20	
4-Bromofluorobenzene (S)	%						103	106	48-138			
Dibromofluoromethane (S)	%						121	114	53-165			
Toluene-d8 (S)	%						110	114	54-163			

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250536 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40146960009, 40146960010, 40146960011, 40146960012

SAMPLE DUPLICATE: 1479177

Parameter	Units	40146961001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	16.5	17.3	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

QC Batch: 250538 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40146960001, 40146960002, 40146960003, 40146960004, 40146960005, 40146960006, 40146960007, 40146960008

SAMPLE DUPLICATE: 1479179

Parameter	Units	40146961006 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	12.4	11.9	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

QUALIFIERS

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

W Non-detect results are reported on a wet weight basis.

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18806-3 FMR NATURAL CLEANERS
Pace Project No.: 40146960

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40146960001	GP-20 1-3	EPA 5035/5030B	250782	EPA 8260	250783
40146960002	GP-20 5-7	EPA 5035/5030B	250720	EPA 8260	250723
40146960003	GP-21 1-3	EPA 5035/5030B	250720	EPA 8260	250723
40146960004	GP-21 10-12	EPA 5035/5030B	250720	EPA 8260	250723
40146960005	GP-22 1-3	EPA 5035/5030B	250720	EPA 8260	250723
40146960006	GP-22 8-10	EPA 5035/5030B	250720	EPA 8260	250723
40146960007	GP-23 1-3	EPA 5035/5030B	250720	EPA 8260	250723
40146960008	GP-23 8-10	EPA 5035/5030B	250720	EPA 8260	250723
40146960009	GP-24 1-3	EPA 5035/5030B	250782	EPA 8260	250783
40146960010	GP-24 8-10	EPA 5035/5030B	250782	EPA 8260	250783
40146960011	MW-5 1-3	EPA 5035/5030B	250782	EPA 8260	250783
40146960012	MW-5 10-12	EPA 5035/5030B	250782	EPA 8260	250783
40146960001	GP-20 1-3	ASTM D2974-87	250538		
40146960002	GP-20 5-7	ASTM D2974-87	250538		
40146960003	GP-21 1-3	ASTM D2974-87	250538		
40146960004	GP-21 10-12	ASTM D2974-87	250538		
40146960005	GP-22 1-3	ASTM D2974-87	250538		
40146960006	GP-22 8-10	ASTM D2974-87	250538		
40146960007	GP-23 1-3	ASTM D2974-87	250538		
40146960008	GP-23 8-10	ASTM D2974-87	250538		
40146960009	GP-24 1-3	ASTM D2974-87	250536		
40146960010	GP-24 8-10	ASTM D2974-87	250536		
40146960011	MW-5 1-3	ASTM D2974-87	250536		
40146960012	MW-5 10-12	ASTM D2974-87	250536		

Pace Analytical®
www.pacelabs.com

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

401460ReO

(Please Print Clearly)	
Company Name:	KPRG AND Assoc.
Branch/Location:	WI
Project Contact:	Richard Gnat
Phone:	262-781-0475
Project Number:	18806-3
Project Name:	Former Natural C
Project State:	WI
Sampled By (Print):	Patrick Allenstein
Sampled By (Sign):	
PO #:	Regulatory Program:

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, SI = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analysis Requested: CVOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	GP-20 1-3	3/15	1000	S	—	F/A	X		1-40mlvF 1-40zgA	
002	GP-20 5-7		1005							
003	GP-21 1-3		1030							
004	GP-21 10-12		1035							
005	GP-22 1-3		1100							
006	GP-22 8-10		1105							
007	GP-23 1-3		1520							
008	GP-23 8-10		1525							
009	GP-24 1-3		1600							
010	GP-24 8-10		1605							
011	MW-5 1-3		1130							
012	MW-5 10-12		1135							

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	3-17-17 1216	Mary Fannin	3/17/17 12:16
Mary Fannin	3/17/17 1300		
CSLogistics	31817 0830	Mary Fannin	31817 0830

PACE Project No.: 401460ReO

Receipt Temp = R01 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Project #: WO#: 40146960

40146960

Client Name: KPRG

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☐ Pace Other: CS Logistics

Tracking #:

Custody Seal on Cooler/Box Present: ☑ yes ☐ no Seals intact: ☑ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☑ no Seals intact: ☐ yes ☐ no

Packing Material: ☑ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used DC0 **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R01 /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 3.18.17
Initials: mm

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				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 & Signature on COC:	☑Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☑Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐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	
-Pace IR Containers Used:	☐Yes	☐No	☑N/A	
Containers Intact:	☑Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☑N/A	11.
Sample Labels match COC:	☐Yes	☑No	☐N/A	12. poly samples no collect date + time, mm 3/18/17
-Includes date/time/ID/Analysis Matrix: S				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☑N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☑N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☐Yes	☑No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☐No	☑N/A	14.
Trip Blank Present:	☐Yes	☐No	☑N/A	15.
Trip Blank Custody Seals Present	☐Yes	☐No	☑N/A	
Pace Trip Blank Lot # (if purchased):				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: mult for DM **Date:** 3/18/17

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

April 17, 2017

Patrick Allenstein
KPRG and Associates, Inc.
14665 W. Lisbon Road
Brookfield, WI 53005

RE: Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Dear Patrick Allenstein:
Enclosed are the analytical results for sample(s) received by the laboratory on April 03, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Dan Milewsky

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

CERTIFICATIONS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida Certification #: E87605
Georgia Certification #: 959
Guam EPA Certification #: MN00064
Hawaii Certification #: MN00064
Idaho Certification #: MN00064
Illinois Certification #: 200011
Indiana Certification #: C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky DW Certification #: 90062
Kentucky WW Certification #: 90062
Louisiana DEQ Certification #: 03086
Louisiana DW Certification #: MN00064
Maine Certification #: MN00064
Maryland Certification #: 322
Michigan Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: MN00064
Montana Certification #: CERT0092
Nebraska Certification #: NE-OS-18-06
Nevada Certification #: MN00064
New Hampshire Certification #: 2081
New Jersey Certification #: MN002
New York Certification #: 11647
North Carolina DW Certification #: 27700
North Carolina WW Certification #: 530
North Dakota Certification #: R-036
Ohio DW Certification #: 41244
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification #: MN00064
South Carolina Certification #:74003001
Tennessee Certification #: TN02818
Texas Certification #: T104704192
Utah Certification #: MN00064
Virginia Certification #: 460163
Washington Certification #: C486
West Virginia DW Certification #: 9952 C
West Virginia WW Certification #: 382
Wisconsin Certification #: 999407970
Wyoming via EPA Region 8 Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40147644001	SV-1	Air	03/31/17 14:58	04/03/17 12:15
40147644002	SV-2	Air	03/31/17 14:52	04/03/17 12:15
40147644003	SV-3	Air	03/31/17 15:08	04/03/17 12:15

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SAMPLE ANALYTE COUNT

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40147644001	SV-1	TO-15	MJL	10	PASI-M
40147644002	SV-2	TO-15	MJL	10	PASI-M
40147644003	SV-3	TO-15	MJL	10	PASI-M

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SUMMARY OF DETECTION

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40147644001	**SV-1**					
TO-15	cis-1,2-Dichloroethene	0.66J	ug/m3	1.2	04/16/17 21:30	
TO-15	Tetrachloroethene	2.5	ug/m3	0.99	04/16/17 21:30	
TO-15	Trichloroethene	0.49J	ug/m3	0.79	04/16/17 21:30	
40147644002	**SV-2**					
TO-15	Tetrachloroethene	0.68J	ug/m3	1.1	04/16/17 21:58	
40147644003	**SV-3**					
TO-15	cis-1,2-Dichloroethene	8.7	ug/m3	1.3	04/16/17 22:26	
TO-15	trans-1,2-Dichloroethene	7.8	ug/m3	1.3	04/16/17 22:26	
TO-15	Tetrachloroethene	175	ug/m3	1.1	04/16/17 22:26	
TO-15	1,1,1-Trichloroethane	0.63J	ug/m3	1.7	04/16/17 22:26	
TO-15	Trichloroethene	32.0	ug/m3	0.85	04/16/17 22:26	

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ANALYTICAL RESULTS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Sample: SV-1 **Lab ID: 40147644001** Collected: 03/31/17 14:58 Received: 04/03/17 12:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.23**	ug/m3	1.2	0.23	1.44		04/16/17 21:30	75-34-3	
1,2-Dichloroethane	**<0.30**	ug/m3	0.59	0.30	1.44		04/16/17 21:30	107-06-2	
1,1-Dichloroethene	**<0.34**	ug/m3	1.2	0.34	1.44		04/16/17 21:30	75-35-4	
cis-1,2-Dichloroethene	**0.66J**	ug/m3	1.2	0.35	1.44		04/16/17 21:30	156-59-2	
trans-1,2-Dichloroethene	**<0.55**	ug/m3	1.2	0.55	1.44		04/16/17 21:30	156-60-5	
Tetrachloroethene	**2.5**	ug/m3	0.99	0.40	1.44		04/16/17 21:30	127-18-4	
1,1,1-Trichloroethane	**<0.36**	ug/m3	1.6	0.36	1.44		04/16/17 21:30	71-55-6	
1,1,2-Trichloroethane	**<0.35**	ug/m3	0.79	0.35	1.44		04/16/17 21:30	79-00-5	
Trichloroethene	**0.49J**	ug/m3	0.79	0.40	1.44		04/16/17 21:30	79-01-6	
Vinyl chloride	**<0.28**	ug/m3	0.37	0.28	1.44		04/16/17 21:30	75-01-4	

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ANALYTICAL RESULTS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Sample: SV-2 **Lab ID: 40147644002** Collected: 03/31/17 14:52 Received: 04/03/17 12:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.24**	ug/m3	1.3	0.24	1.55		04/16/17 21:58	75-34-3	
1,2-Dichloroethane	**<0.32**	ug/m3	0.64	0.32	1.55		04/16/17 21:58	107-06-2	
1,1-Dichloroethene	**<0.37**	ug/m3	1.3	0.37	1.55		04/16/17 21:58	75-35-4	
cis-1,2-Dichloroethene	**<0.38**	ug/m3	1.3	0.38	1.55		04/16/17 21:58	156-59-2	
trans-1,2-Dichloroethene	**<0.60**	ug/m3	1.3	0.60	1.55		04/16/17 21:58	156-60-5	
Tetrachloroethene	**0.68J**	ug/m3	1.1	0.43	1.55		04/16/17 21:58	127-18-4	
1,1,1-Trichloroethane	**<0.38**	ug/m3	1.7	0.38	1.55		04/16/17 21:58	71-55-6	
1,1,2-Trichloroethane	**<0.38**	ug/m3	0.85	0.38	1.55		04/16/17 21:58	79-00-5	
Trichloroethene	**<0.43**	ug/m3	0.85	0.43	1.55		04/16/17 21:58	79-01-6	
Vinyl chloride	**<0.30**	ug/m3	0.40	0.30	1.55		04/16/17 21:58	75-01-4	

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ANALYTICAL RESULTS

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Sample: SV-3 **Lab ID: 40147644003** Collected: 03/31/17 15:08 Received: 04/03/17 12:15 Matrix: Air

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical Method: TO-15								
1,1-Dichloroethane	**<0.24**	ug/m3	1.3	0.24	1.55		04/16/17 22:26	75-34-3	
1,2-Dichloroethane	**<0.32**	ug/m3	0.64	0.32	1.55		04/16/17 22:26	107-06-2	
1,1-Dichloroethene	**<0.37**	ug/m3	1.3	0.37	1.55		04/16/17 22:26	75-35-4	
cis-1,2-Dichloroethene	**8.7**	ug/m3	1.3	0.38	1.55		04/16/17 22:26	156-59-2	
trans-1,2-Dichloroethene	**7.8**	ug/m3	1.3	0.60	1.55		04/16/17 22:26	156-60-5	
Tetrachloroethene	**175**	ug/m3	1.1	0.43	1.55		04/16/17 22:26	127-18-4	
1,1,1-Trichloroethane	**0.63J**	ug/m3	1.7	0.38	1.55		04/16/17 22:26	71-55-6	
1,1,2-Trichloroethane	**<0.38**	ug/m3	0.85	0.38	1.55		04/16/17 22:26	79-00-5	
Trichloroethene	**32.0**	ug/m3	0.85	0.43	1.55		04/16/17 22:26	79-01-6	
Vinyl chloride	**<0.30**	ug/m3	0.40	0.30	1.55		04/16/17 22:26	75-01-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

QC Batch: 468777 Analysis Method: TO-15
QC Batch Method: TO-15 Analysis Description: TO15 MSV AIR Low Level
Associated Lab Samples: 40147644001, 40147644002, 40147644003

METHOD BLANK: 2560516 Matrix: Air
Associated Lab Samples: 40147644001, 40147644002, 40147644003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/m3	<0.25	1.1	04/16/17 09:25	
1,1,2-Trichloroethane	ug/m3	<0.25	0.55	04/16/17 09:25	MN
1,1-Dichloroethane	ug/m3	<0.16	0.82	04/16/17 09:25	
1,1-Dichloroethene	ug/m3	<0.24	0.81	04/16/17 09:25	
1,2-Dichloroethane	ug/m3	<0.20	0.41	04/16/17 09:25	
cis-1,2-Dichloroethene	ug/m3	<0.25	0.81	04/16/17 09:25	
Tetrachloroethene	ug/m3	<0.28	0.69	04/16/17 09:25	
trans-1,2-Dichloroethene	ug/m3	<0.38	0.81	04/16/17 09:25	
Trichloroethene	ug/m3	<0.28	0.55	04/16/17 09:25	
Vinyl chloride	ug/m3	<0.20	0.26	04/16/17 09:25	

LABORATORY CONTROL SAMPLE: 2560517

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	53.5	97	70-134	
1,1,2-Trichloroethane	ug/m3	55.5	56.2	101	70-130	
1,1-Dichloroethane	ug/m3	41.1	43.5	106	70-130	
1,1-Dichloroethene	ug/m3	40.3	41.3	102	70-130	
1,2-Dichloroethane	ug/m3	41.1	41.1	100	70-130	
cis-1,2-Dichloroethene	ug/m3	40.3	42.3	105	70-133	
Tetrachloroethene	ug/m3	68.9	67.9	98	70-130	
trans-1,2-Dichloroethene	ug/m3	40.3	41.3	102	70-131	
Trichloroethene	ug/m3	54.6	59.1	108	70-130	
Vinyl chloride	ug/m3	26	28.2	109	70-130	

SAMPLE DUPLICATE: 2560903

Parameter	Units	10384709002 Result	Dup Result	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/m3	ND	<0.33		25	
1,1,2-Trichloroethane	ug/m3	ND	<0.33		25	
1,1-Dichloroethane	ug/m3	ND	<0.21		25	
1,1-Dichloroethene	ug/m3	ND	<0.32		25	
1,2-Dichloroethane	ug/m3	ND	<0.27		25	
cis-1,2-Dichloroethene	ug/m3	ND	<0.33		25	
Tetrachloroethene	ug/m3	136	138	1	25	
trans-1,2-Dichloroethene	ug/m3	ND	<0.51		25	
Trichloroethene	ug/m3	ND	<0.37		25	
Vinyl chloride	ug/m3	ND	<0.26		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: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

MN	The reporting limit has been raised in accordance with Minnesota Statutes 4740.2100 Subpart 8. C, D. Reporting Limit Evaluation Rule.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 188063 FORMER NATIONAL CLEANER
Pace Project No.: 40147644

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40147644001	SV-1	TO-15	468777		
40147644002	SV-2	TO-15	468777		
40147644003	SV-3	TO-15	468777		

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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.

401476 44

26191

Page: 1 of 1

Section A Required Client Information:
Company: KPRG AND ASSOCIATES
Address: 14665 W LISBON BROOKFIELD, WI
Email To:
Phone: 262-781-0475 Fax: -0478
Requested Due Date/TAT:

Section B Required Project Information:
Report To: RICHARD GNAT
Copy To:
Purchase Order No.:
Project Name: FORMER NATIONAL CLEANERS
Project Number: 198063

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote Reference:
Pace Project Manager/Sales Rep.
Pace Profile #:

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

Location of Sampling by State: WI

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

Report Level II. III. IV. Other

'Section D Required Client Information

AIR SAMPLE ID
Sample IDs MUST BE UNIQUE

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	MEDIA CODE	PID Reading (Client only)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END DATE	COLLECTED COMPOSITE END TIME	Canister Pressure (Initial Field - psig)	Canister Pressure (Final Field - psig)	Summa Can Number	Flow Control Number	Method: 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	SV-1	6		3-31	1355	3-31	1458	29	5	6738	13119								X		
2	SV-2	↓		↓	1350	↓	1452	29	5	0621	13111								X		
3	SV-3	↓		↓	1406	↓	1508	28	5	0010	12981								X		
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Comments:

* - cVOCs

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	4/3/17	11:10	Mary Fanning	4/3/17	1110
Mary Fanning	4/3/17	1215		4/3/17	1215

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: PATRICK ALLENSTEIN

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY): 4-3-17

ORIGINAL

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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(920)469-2436

May 31, 2017

Patrick Allenstein
KPRG and Associates, Inc.
14665 W. Lisbon Road
Brookfield, WI 53005

RE: Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Dear Patrick Allenstein:
Enclosed are the analytical results for sample(s) received by the laboratory on May 19, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,

Dan Milewsky
dan.milewsky@pacelabs.com
(920)469-2436
Project Manager

Enclosures

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CERTIFICATIONS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40150308001	MW-1	Water	05/17/17 14:26	05/19/17 13:27
40150308002	MW-2	Water	05/18/17 14:33	05/19/17 13:27
40150308003	MW-2D	Water	05/18/17 13:42	05/19/17 13:27
40150308004	MW-3	Water	05/18/17 10:40	05/19/17 13:27
40150308005	MW-3D	Water	05/18/17 09:45	05/19/17 13:27
40150308006	MW-4	Water	05/17/17 15:54	05/19/17 13:27
40150308007	MW-5	Water	05/18/17 11:40	05/19/17 13:27
40150308008	GP-11	Water	05/17/17 11:15	05/19/17 13:27
40150308009	GP-12	Water	05/17/17 11:45	05/19/17 13:27
40150308010	GP-13	Water	05/17/17 12:05	05/19/17 13:27
40150308011	GP-16	Water	05/17/17 13:10	05/19/17 13:27
40150308012	GP-17	Water	05/17/17 13:30	05/19/17 13:27
40150308013	DUP	Water	05/18/17 00:00	05/19/17 13:27
40150308014	FIELD BLANK	Water	05/18/17 00:00	05/19/17 13:27

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SAMPLE ANALYTE COUNT

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40150308001	MW-1	EPA 8260	HNW	13	PASI-G
40150308002	MW-2	EPA 8260	HNW	13	PASI-G
40150308003	MW-2D	EPA 8260	HNW	13	PASI-G
40150308004	MW-3	EPA 8260	HNW	13	PASI-G
40150308005	MW-3D	EPA 8260	HNW	13	PASI-G
40150308006	MW-4	EPA 8260	HNW	13	PASI-G
40150308007	MW-5	EPA 8260	HNW	13	PASI-G
40150308008	GP-11	EPA 8260	HNW	13	PASI-G
40150308009	GP-12	EPA 8260	HNW	13	PASI-G
40150308010	GP-13	EPA 8260	HNW	13	PASI-G
40150308011	GP-16	EPA 8260	HNW	13	PASI-G
40150308012	GP-17	EPA 8260	HNW	13	PASI-G
40150308013	DUP	EPA 8260	LAP	13	PASI-G
40150308014	FIELD BLANK	EPA 8260	LAP	13	PASI-G

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SUMMARY OF DETECTION

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40150308002	**MW-2**					
EPA 8260	1,1,1-Trichloroethane	7.1	ug/L	4.0	05/27/17 01:08	
EPA 8260	1,1-Dichloroethane	3.5J	ug/L	4.0	05/27/17 01:08	
EPA 8260	1,1-Dichloroethene	1.8J	ug/L	4.0	05/27/17 01:08	
EPA 8260	1,2-Dichloroethane	1.6J	ug/L	4.0	05/27/17 01:08	
EPA 8260	Tetrachloroethene	1080	ug/L	4.0	05/27/17 01:08	
EPA 8260	Trichloroethene	179	ug/L	4.0	05/27/17 01:08	
EPA 8260	Vinyl chloride	13.4	ug/L	4.0	05/27/17 01:08	
EPA 8260	cis-1,2-Dichloroethene	311	ug/L	4.0	05/27/17 01:08	
EPA 8260	trans-1,2-Dichloroethene	80.3	ug/L	4.0	05/27/17 01:08	
40150308003	**MW-2D**					
EPA 8260	Tetrachloroethene	0.61J	ug/L	1.0	05/26/17 20:05	
40150308004	**MW-3**					
EPA 8260	cis-1,2-Dichloroethene	2.0	ug/L	1.0	05/26/17 20:27	
EPA 8260	trans-1,2-Dichloroethene	0.42J	ug/L	1.0	05/26/17 20:27	
40150308011	**GP-16**					
EPA 8260	cis-1,2-Dichloroethene	0.54J	ug/L	1.0	05/26/17 22:58	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-1 **Lab ID: 40150308001** Collected: 05/17/17 14:26 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 19:43	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 19:43	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 19:43	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 19:43	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 19:43	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 19:43	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 19:43	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 19:43	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 19:43	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 19:43	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 19:43	460-00-4	
Dibromofluoromethane (S)	105	%	67-124		1		05/26/17 19:43	1868-53-7	
Toluene-d8 (S)	97	%	80-120		1		05/26/17 19:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-2 **Lab ID: 40150308002** Collected: 05/18/17 14:33 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**7.1**	ug/L	4.0	2.0	4		05/27/17 01:08	71-55-6	
1,1,2-Trichloroethane	**<0.79**	ug/L	4.0	0.79	4		05/27/17 01:08	79-00-5	
1,1-Dichloroethane	**3.5J**	ug/L	4.0	0.97	4		05/27/17 01:08	75-34-3	
1,1-Dichloroethene	**1.8J**	ug/L	4.0	1.6	4		05/27/17 01:08	75-35-4	
1,2-Dichloroethane	**1.6J**	ug/L	4.0	0.67	4		05/27/17 01:08	107-06-2	
Tetrachloroethene	**1080**	ug/L	4.0	2.0	4		05/27/17 01:08	127-18-4	
Trichloroethene	**179**	ug/L	4.0	1.3	4		05/27/17 01:08	79-01-6	
Vinyl chloride	**13.4**	ug/L	4.0	0.70	4		05/27/17 01:08	75-01-4	
cis-1,2-Dichloroethene	**311**	ug/L	4.0	1.0	4		05/27/17 01:08	156-59-2	
trans-1,2-Dichloroethene	**80.3**	ug/L	4.0	1.0	4		05/27/17 01:08	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-118		4		05/27/17 01:08	460-00-4	
Dibromofluoromethane (S)	101	%	67-124		4		05/27/17 01:08	1868-53-7	
Toluene-d8 (S)	98	%	80-120		4		05/27/17 01:08	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-2D **Lab ID: 40150308003** Collected: 05/18/17 13:42 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 20:05	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 20:05	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 20:05	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 20:05	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 20:05	107-06-2	
Tetrachloroethene	**0.61J**	ug/L	1.0	0.50	1		05/26/17 20:05	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 20:05	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 20:05	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 20:05	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 20:05	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 20:05	460-00-4	
Dibromofluoromethane (S)	101	%	67-124		1		05/26/17 20:05	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/26/17 20:05	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-3 **Lab ID: 40150308004** Collected: 05/18/17 10:40 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 20:27	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 20:27	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 20:27	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 20:27	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 20:27	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 20:27	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 20:27	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 20:27	75-01-4	
cis-1,2-Dichloroethene	**2.0**	ug/L	1.0	0.26	1		05/26/17 20:27	156-59-2	
trans-1,2-Dichloroethene	**0.42J**	ug/L	1.0	0.26	1		05/26/17 20:27	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 20:27	460-00-4	
Dibromofluoromethane (S)	105	%	67-124		1		05/26/17 20:27	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 20:27	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-3D **Lab ID: 40150308005** Collected: 05/18/17 09:45 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 20:48	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 20:48	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 20:48	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 20:48	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 20:48	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 20:48	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 20:48	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 20:48	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 20:48	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 20:48	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 20:48	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/26/17 20:48	1868-53-7	
Toluene-d8 (S)	98	%	80-120		1		05/26/17 20:48	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-4 **Lab ID: 40150308006** Collected: 05/17/17 15:54 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 21:10	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 21:10	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 21:10	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 21:10	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 21:10	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 21:10	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 21:10	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 21:10	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 21:10	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 21:10	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-118		1		05/26/17 21:10	460-00-4	
Dibromofluoromethane (S)	103	%	67-124		1		05/26/17 21:10	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/26/17 21:10	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: MW-5 **Lab ID: 40150308007** Collected: 05/18/17 11:40 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 21:31	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 21:31	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 21:31	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 21:31	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 21:31	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 21:31	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 21:31	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 21:31	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 21:31	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 21:31	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	96	%	61-118		1		05/26/17 21:31	460-00-4	
Dibromofluoromethane (S)	103	%	67-124		1		05/26/17 21:31	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 21:31	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-11 **Lab ID: 40150308008** Collected: 05/17/17 11:15 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 21:53	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 21:53	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 21:53	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 21:53	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 21:53	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 21:53	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 21:53	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 21:53	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 21:53	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 21:53	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 21:53	460-00-4	
Dibromofluoromethane (S)	102	%	67-124		1		05/26/17 21:53	1868-53-7	
Toluene-d8 (S)	98	%	80-120		1		05/26/17 21:53	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-12 **Lab ID: 40150308009** Collected: 05/17/17 11:45 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 22:15	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 22:15	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 22:15	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 22:15	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 22:15	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 22:15	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 22:15	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 22:15	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 22:15	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 22:15	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	93	%	61-118		1		05/26/17 22:15	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/26/17 22:15	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 22:15	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-13 **Lab ID: 40150308010** Collected: 05/17/17 12:05 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 22:36	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 22:36	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 22:36	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 22:36	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 22:36	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 22:36	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 22:36	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 22:36	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 22:36	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 22:36	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	94	%	61-118		1		05/26/17 22:36	460-00-4	
Dibromofluoromethane (S)	102	%	67-124		1		05/26/17 22:36	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 22:36	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-16 **Lab ID: 40150308011** Collected: 05/17/17 13:10 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 22:58	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 22:58	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 22:58	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 22:58	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 22:58	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 22:58	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 22:58	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 22:58	75-01-4	
cis-1,2-Dichloroethene	**0.54J**	ug/L	1.0	0.26	1		05/26/17 22:58	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 22:58	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 22:58	460-00-4	
Dibromofluoromethane (S)	102	%	67-124		1		05/26/17 22:58	1868-53-7	
Toluene-d8 (S)	99	%	80-120		1		05/26/17 22:58	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: GP-17 **Lab ID: 40150308012** Collected: 05/17/17 13:30 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/26/17 23:20	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/26/17 23:20	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/26/17 23:20	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/26/17 23:20	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/26/17 23:20	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/26/17 23:20	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/26/17 23:20	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/26/17 23:20	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 23:20	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/26/17 23:20	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	95	%	61-118		1		05/26/17 23:20	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/26/17 23:20	1868-53-7	
Toluene-d8 (S)	100	%	80-120		1		05/26/17 23:20	2037-26-5	

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ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: DUP **Lab ID: 40150308013** Collected: 05/18/17 00:00 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/30/17 09:22	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/30/17 09:22	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/30/17 09:22	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/30/17 09:22	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/30/17 09:22	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/30/17 09:22	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/30/17 09:22	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/30/17 09:22	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/30/17 09:22	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/30/17 09:22	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-118		1		05/30/17 09:22	460-00-4	
Dibromofluoromethane (S)	104	%	67-124		1		05/30/17 09:22	1868-53-7	
Toluene-d8 (S)	96	%	80-120		1		05/30/17 09:22	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Sample: FIELD BLANK **Lab ID: 40150308014** Collected: 05/18/17 00:00 Received: 05/19/17 13:27 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		05/30/17 09:45	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		05/30/17 09:45	79-00-5	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		05/30/17 09:45	75-34-3	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		05/30/17 09:45	75-35-4	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		05/30/17 09:45	107-06-2	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		05/30/17 09:45	127-18-4	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		05/30/17 09:45	79-01-6	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		05/30/17 09:45	75-01-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/30/17 09:45	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		05/30/17 09:45	156-60-5	
Surrogates									
4-Bromofluorobenzene (S)	84	%	61-118		1		05/30/17 09:45	460-00-4	
Dibromofluoromethane (S)	101	%	67-124		1		05/30/17 09:45	1868-53-7	
Toluene-d8 (S)	93	%	80-120		1		05/30/17 09:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Green Bay, WI 54302
(920)469-2436

QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

QC Batch: 256302 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40150308001, 40150308002, 40150308003, 40150308004, 40150308005, 40150308006, 40150308007, 40150308008, 40150308009, 40150308010, 40150308011, 40150308012

METHOD BLANK: 1511135 Matrix: Water
Associated Lab Samples: 40150308001, 40150308002, 40150308003, 40150308004, 40150308005, 40150308006, 40150308007, 40150308008, 40150308009, 40150308010, 40150308011, 40150308012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/26/17 15:02	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/26/17 15:02	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/26/17 15:02	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/26/17 15:02	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/26/17 15:02	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/26/17 15:02	
Tetrachloroethene	ug/L	<0.50	1.0	05/26/17 15:02	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/26/17 15:02	
Trichloroethene	ug/L	<0.33	1.0	05/26/17 15:02	
Vinyl chloride	ug/L	<0.18	1.0	05/26/17 15:02	
4-Bromofluorobenzene (S)	%	96	61-118	05/26/17 15:02	
Dibromofluoromethane (S)	%	101	67-124	05/26/17 15:02	
Toluene-d8 (S)	%	101	80-120	05/26/17 15:02	

LABORATORY CONTROL SAMPLE: 1511136

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	85-130	
1,1,2-Trichloroethane	ug/L	50	47.3	95	80-120	
1,1-Dichloroethane	ug/L	50	54.4	109	71-132	
1,1-Dichloroethene	ug/L	50	53.6	107	75-130	
1,2-Dichloroethane	ug/L	50	52.6	105	79-131	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	83-129	
Tetrachloroethene	ug/L	50	42.3	85	80-120	
trans-1,2-Dichloroethene	ug/L	50	54.9	110	75-132	
Trichloroethene	ug/L	50	47.7	95	80-120	
Vinyl chloride	ug/L	50	58.9	118	57-136	
4-Bromofluorobenzene (S)	%			106	61-118	
Dibromofluoromethane (S)	%			98	67-124	
Toluene-d8 (S)	%			97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1511596 1511597

Parameter	Units	40150234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.00050 mg/L	50	50	44.8	39.8	90	80	85-134	12	20	M1

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

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1511596 1511597

Parameter	Units	40150234001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,2-Trichloroethane	ug/L	<0.00020 mg/L	50	50	46.3	42.2	93	84	80-120	9	20	
1,1-Dichloroethane	ug/L	<0.00024 mg/L	50	50	44.3	40.6	89	81	71-133	9	20	
1,1-Dichloroethene	ug/L	<0.00041 mg/L	50	50	47.4	39.3	95	79	75-136	19	20	
1,2-Dichloroethane	ug/L	<0.00017 mg/L	50	50	48.7	45.1	97	90	79-131	8	20	
cis-1,2-Dichloroethene	ug/L	<0.00026 mg/L	50	50	45.1	39.8	90	80	83-129	12	20	M1
Tetrachloroethene	ug/L	<0.00050 mg/L	50	50	36.5	33.4	73	67	80-120	9	20	M1
trans-1,2-Dichloroethene	ug/L	<0.00026 mg/L	50	50	45.1	38.8	90	78	75-135	15	20	
Trichloroethene	ug/L	<0.00033 mg/L	50	50	42.5	39.3	85	79	80-120	8	20	M1
Vinyl chloride	ug/L	<0.00018 mg/L	50	50	41.1	37.1	82	74	56-143	10	20	
4-Bromofluorobenzene (S)	%						102	100	61-118			
Dibromofluoromethane (S)	%						104	103	67-124			
Toluene-d8 (S)	%						99	98	80-120			

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

QC Batch: 256768 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40150308013, 40150308014

METHOD BLANK: 1513263 Matrix: Water
Associated Lab Samples: 40150308013, 40150308014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.50	1.0	05/30/17 06:32	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	05/30/17 06:32	
1,1-Dichloroethane	ug/L	<0.24	1.0	05/30/17 06:32	
1,1-Dichloroethene	ug/L	<0.41	1.0	05/30/17 06:32	
1,2-Dichloroethane	ug/L	<0.17	1.0	05/30/17 06:32	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:32	
Tetrachloroethene	ug/L	<0.50	1.0	05/30/17 06:32	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	05/30/17 06:32	
Trichloroethene	ug/L	<0.33	1.0	05/30/17 06:32	
Vinyl chloride	ug/L	<0.18	1.0	05/30/17 06:32	
4-Bromofluorobenzene (S)	%	84	61-118	05/30/17 06:32	
Dibromofluoromethane (S)	%	103	67-124	05/30/17 06:32	
Toluene-d8 (S)	%	92	80-120	05/30/17 06:32	

LABORATORY CONTROL SAMPLE: 1513264

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.5	101	85-130	
1,1,2-Trichloroethane	ug/L	50	48.4	97	80-120	
1,1-Dichloroethane	ug/L	50	50.9	102	71-132	
1,1-Dichloroethene	ug/L	50	59.6	119	75-130	
1,2-Dichloroethane	ug/L	50	49.3	99	79-131	
cis-1,2-Dichloroethene	ug/L	50	49.1	98	83-129	
Tetrachloroethene	ug/L	50	52.1	104	80-120	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	75-132	
Trichloroethene	ug/L	50	56.0	112	80-120	
Vinyl chloride	ug/L	50	51.5	103	57-136	
4-Bromofluorobenzene (S)	%			100	61-118	
Dibromofluoromethane (S)	%			97	67-124	
Toluene-d8 (S)	%			102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1514092 1514093

Parameter	Units	40150525023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.50	50	50	53.9	50.4	108	101	85-134	7	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	51.7	46.3	103	93	80-120	11	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	54.1	52.3	108	105	71-133	3	20	

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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QUALITY CONTROL DATA

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1514092 1514093

Parameter	Units	40150525023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1-Dichloroethene	ug/L	<0.41	50	50	63.9	58.7	128	117	75-136	8	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	52.1	48.7	104	97	79-131	7	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	54.4	48.4	109	97	83-129	12	20	
Tetrachloroethene	ug/L	<0.50	50	50	53.9	52.5	108	105	80-120	3	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	53.6	51.9	107	104	75-135	3	20	
Trichloroethene	ug/L	<0.33	50	50	56.5	57.0	113	114	80-120	1	20	
Vinyl chloride	ug/L	<0.18	50	50	60.4	51.7	121	103	56-143	16	20	
4-Bromofluorobenzene (S)	%						104	95	61-118			
Dibromofluoromethane (S)	%						100	93	67-124			
Toluene-d8 (S)	%						100	103	80-120			

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

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
Green Bay, WI 54302
(920)469-2436

QUALIFIERS

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

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 LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor and percent moisture.

LOQ - Limit of Quantitation adjusted for dilution factor and percent moisture.

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 at or above the adjusted LOD.

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.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 18806.3 NATURAL CLEANERS
Pace Project No.: 40150308

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40150308001	MW-1	EPA 8260	256302		
40150308002	MW-2	EPA 8260	256302		
40150308003	MW-2D	EPA 8260	256302		
40150308004	MW-3	EPA 8260	256302		
40150308005	MW-3D	EPA 8260	256302		
40150308006	MW-4	EPA 8260	256302		
40150308007	MW-5	EPA 8260	256302		
40150308008	GP-11	EPA 8260	256302		
40150308009	GP-12	EPA 8260	256302		
40150308010	GP-13	EPA 8260	256302		
40150308011	GP-16	EPA 8260	256302		
40150308012	GP-17	EPA 8260	256302		
40150308013	DUP	EPA 8260	256768		
40150308014	FIELD BLANK	EPA 8260	256768		

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UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

CHAIN OF CUSTODY

4015038

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	KPRG & Associates
Branch/Location:	Brookfield
Project Contact:	Patrick Allenstein
Phone:	262-227-0286
Project Number:	18806.3
Project Name:	Natural Cleaners
Project State:	WI
Sampled By (Print):	L. Reutzmen / P. Allenstein
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes
A = Air, W = Water, B = Biota, DW = Drinking Water, C = Charcoal, GW = Ground Water, O = Oil, SW = Surface Water, S = Soil, WW = Waste Water, Sl = Sludge, WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: CVOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-1	5/17/17	14:26	GW		N / B	X	3-40mL Vb		
002	MW-2	5/18/17	14:33							
003	MW-2D	5/18/17	13:42							
004	MW-3	5/18/17	10:40							
005	MW-3D	5/18/17	9:45							
006	MW-4	5/17/17	15:54							
007	MW-5	5/18/17	11:40							
008	GP-11	5/17/17	11:15							
009	GP-12	5/17/17	11:45							
010	GP-13	5/17/17	12:05							
011	GP-16	5/17/17	13:10							
012	GP-17	5/17/17	13:30							

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

Samples on HOLD are subject to special pricing and release of liability

Relinquished By:	Date/Time:	Received By:	Date/Time:
	5/19/17 9:15	Mary Fannin	5/19/17 9:15
Mary Fannin	5/19/17 1200	Kimberly Retzke Pace	5/19/17 1200
Kimberly Retzke Pace	5/19/17 1327		5/19/17 1327

PACE Project No. 4015038
Receipt Temp = 2.0 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

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CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	KPRG & Associates
Branch/Location:	Brookfield
Project Contact:	Patrick Allenstein
Phone:	262-227-0286
Project Number:	18806.3
Project Name:	Natural Cleaners
Project State:	WI
Sampled By (Print):	L. Reuteman / P. Allenstein
Sampled By (Sign):	
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

Data Package Options (billable)
☐ EPA Level III
☐ EPA Level IV

MS/MSD
☐ On your sample (billable)
☐ NOT needed on your sample

Matrix Codes

A = Air	W = Water
B = Biota	DW = Drinking Water
C = Charcoal	GW = Ground Water
O = Oil	SW = Surface Water
S = Soil	WW = Waste Water
Sl = Sludge	WP = Wipe

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested: CVOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
013	DUP	5/18/17	—	GW		X		3-40mL vB		
014	Field Blank	—	—	GW		X		2-40mL vB		

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time:	Received By:	Date/Time:	PACE Project No.
Transmit Prelim Rush Results by (complete what you want):		5/19/17 9:15		5/19/17 9:15	10150308
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Receipt Temp = 1.0 °C
Email #2:	Mary Jannin	5/19/17 1200	Kimberly Retyke Pace	5/19/17 1200	
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:	Sample Receipt pH OK / Adjusted
Fax:	Kimberly Retyke Pace	5/19/17 1327		5/19/17 1327	
Samples on HOLD are subject to special pricing and release of liability	Relinquished By:	Date/Time:	Received By:	Date/Time:	Cooler Custody Seal Present / Not Present Intact / Not Intact
	Relinquished By:	Date/Time:	Received By:	Date/Time:	

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

Pace Analytical Services, Inc.
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Pace Analytical™

Client Name: KPRG & Associates

Project #: **WO# : 40150308**

40150308

Courier: ☐ Fed Ex ☐ UPS ☐ Client ☒ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used N/A **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RoT /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 5/19/17
Initials: SSK

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				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 & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐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	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☒No	☐N/A	11.
Sample Labels match COC:	☐Yes	☒No	☐N/A	12. 010 - ID on Samples is "GP-13/W" 009 - ID on Samples is "GP-12/W" 008 - ID on Samples is "GP-8/W" SSK 5/19/17
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: VOA, coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/ Time:
Headspace in VOA Vials (>6mm):	☐Yes	☒No	☐N/A	14.
Trip Blank Present:	☒Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): 379				

Client Notification/ Resolution: If checked, see attached form for additional comments ☐

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: 012 - ID on Samples is "GP-17/W" SSK 5/19/17
009 - ID on Samples is "GP-12/W"

Project Manager Review: Review for NM **Date:** 5/19/17

State of Wisconsin
DEPARTMENT OF NATURAL RESOURCES
2300 N. Dr. Martin Luther King, Jr. Drive
Milwaukee WI 53212-3128

Scott Walker, Governor
Cathy Stepp, Secretary
Telephone 608-266-2621
Toll Free 1-888-936-7463
TTY Access via relay - 711

December 22, 2016

Ms. Marilyn Fleming
Former Bayside Natural Cleaners
N40 W27880 Glacier Road
Pewaukee, WI 53072

Subject: Additional Site Investigation Work Plan (2) for the Former Bayside Natural Cleaners, 8828 North Port Washington Road, Bayside, WI

FID: 341140250
BRRTS: 02-41-548572

Dear MS. Fleming:

On November 22, 2016, the Wisconsin Department of Natural Resources (DNR) received from KPRG a revised additional site investigation work plan and responses to the DNR's letters dated April 20 and November 2, 2016 for the former Bayside Natural Cleaners site. The additional site investigation scope-of-work (SOW) plan is approved. The additional SOW is summarized as follows:

- Task 1: Interior Vapor Probe Installation and Sampling
- Task 2: Soil Borings/Sampling
- Task 3: SSDS System Check
- Task 4: Additional Well Installations and Groundwater Sampling
- Task 5: Additional Site Investigation Reporting

The cost approved for the above tasks is $33,025. The total approved costs to date is $121,383 ($88,358 plus $33,025 = $121,383).

This approval does not guarantee the reimbursement of costs. Final determination regarding the eligibility of costs will be determined at the time of claim review.

The Department appreciates the actions you have taken to investigate and remediate the contamination at this site. If you have any questions or comments, please feel free to contact me at the above address or at (414) 263-8644. Please refer to the FID number at the top of this letter in any future correspondence. Future correspondence should be sent directly to me at the above address.

Sincerely,

John J. Hnat, P.G., C.P.G.
Project Manager\Hydrogeologist
Southeast Region
Remediation and Redevelopment

C: Jennifer Feyerherm – WDNR, CF2
Richard R. Gnat - KPRG
WDNR SER File

K P R G

ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, Inc.

ADDITIONAL COMMENT RESPONSES AND
REVISED ADDITIONAL SITE INVESTIGATION WORK PLAN

November 22, 2016

Mr. John J. Hnat, P.G., C.P.G.
Wisconsin Department of Natural Resources
2300 North Martin Luther King, Jr. Drive
Milwaukee, WI 53212

Re: Former Bayside Natural Cleaners
8828 North Port Washington Road, Bayside, WI
FID# 341140250, BRRTS# 02-41-548572

KPRG Project No. 18806.3

Dear Mr. Hnat:

On June 26, 2015, KPRG and Associates, Inc. (KPRG), on behalf of Former Bayside Natural Cleaners, submitted comment responses and an Additional Site Investigation (SI) Work Plan for what we believed, based on discussions with Wisconsin Department of Natural Resources (WDNR), would be the final segment of site investigation activities. The resulting additional data were summarized in a Supplemental Site Investigation Report dated November 10, 2015 requesting that the SI portion of the project (which was started in August 2007), be considered complete and to allow the site to move into remediation. On April 20, 2016, WDNR issued a review letter requesting still additional site investigation work to be performed. Specifically, seven additional vapor probes were requested to be installed within the basement of the building (despite having two rounds of indoor air sampling from across the footprint of the building which did not indicate any indoor air exceedances for chlorinated volatile organic compounds [CVOCs]), four additional exterior soil borings and updated documentation on the effectiveness of the existing sub-slab depressurization system (SSDS) that was installed in 2012.

On May 31, 2016, KPRG submitted comment responses, an Additional Site Investigation Work Plan that included all additional work requested and a Proposed Alternate Interim Remedial Action. On November 2, 2016 (approximately 5 months after submittal of our responses and work plan) WDNR issued another comment letter requesting yet additional site investigation work to be added to the work plan, including more monitoring wells. The letter consisted of eight comments. Each is addressed separately below.

- Comment 1 – This comment requests additional soil borings to the north and south of location GP-5, along the east property line. These were part of the initial request addressed in the KPRG response dated May 31, 2016. In addition, soil borings to the

north towards location GP-6 and to the south towards well MW-3 are now also being requested.

Response – The additional requested borings are included in the revised work plan and cost estimate provided in Attachment 1. This will yield a total of six additional soil sampling locations with two soil samples collected per location. The samples will be analyzed for chlorinated volatile organic compounds (CVOCs).

- Comment 2 – This comment agrees to reducing the originally requested seven vapor probe locations within the basement of the building to four locations.

  Response – The revised work plan and cost estimate provided in Attachment 1 reflects this change. The four vapor probes will be evenly space along the east wall of the building, as allowed by access.

- Comment 3 – This comment reiterates that testing of the sub-slab depressurization system (SSDS) that has been installed will need to be performed to establish a baseline prior to any remediation and subsequently after remediation.

  Response – This comment was previously addressed and is included in the attached work plan and cost estimate. No changes are proposed at this time.

- Comment 4 – This comment states that additional monitoring wells are required to the north of MW-2 and east on the adjacent property.

  Response – An additional well (MW-5) will be installed to the north of MW-2 as noted in the revised work plan and cost estimate provided in Attachment 1. There are currently four monitoring wells on the adjacent property to the east. Multiple rounds of sampling from these wells have not detected impacts. Additional wells on this property are not warranted and are not included in the attached work plan.

- Comment 5 – This comment requires an additional piezometer to be installed downgradient of the source area.

  Response – The revised work plan and cost estimate in Attachment 1 includes an additional piezometer to be clustered next to downgradient well MW-3.

- Comments 6 through 8 – These comments are relative to the alternate proposal for the implementation of an interim remedial action (IRA) included with KPRG's previous submittal dated May 31, 2016. The comments request clarification on the type of injectate proposed, an evaluation of a direct soil removal alternative and for the completion of a formal Remedial Actions Options Report (RAOR).

  Response – In the opening paragraph of the WDNR letter dated November 2, 2016, the WDNR states that an IRA can not be approved at this time because of an incomplete site

investigation. Although KPRG would like to note that IRAs are often, if not usually, performed concurrent with completion of site investigation work to help expedite implementation of remedy, it is clear that in this case the WDNR does not believe the implementation of an IRA is warranted. Therefore, rather than further addressing the technical aspects of these comments, KPRG withdraws the alternate proposal until after WDNR concurrence that the site investigation is complete.

KPRG and Natural Cleaners appreciate the continued cooperation with WDNR in addressing these issues and we request an expedited approval of this additional site investigation work plan. If there are any questions, please contact me at 262-781-0475.

Sincerely,
KPRG and Associates, Inc.

Richard R Gnat

Richard R. Gnat, P.G.
Principal

cc: Marilyn Fleming, Former Natural Cleaners
Derek Reinke, Ogden & Company, Inc.
Donald P. Gallo, Husch Blackwell, LLP

ATTACHMENT 1

Revised Additional Site Investigation Work Plan and Cost Estimate

REVISED ADDITIONAL SITE INVESTIGATION WORK PLAN AND COST ESTIMATE

1.0 WORK PLAN SCOPE OF WORK

1.1 Sub-Slab Vapor Probe Installations/Sampling

KPRG will install additional four sub-slab vapor probes equally spaced (as allowed by access) along the east basement wall of the building. KPRG will use the Cox-Colvin vapor pin sampling system. The pins will be installed through the concrete floor slab per manufacturer directions. A concrete hammer drill will be used to drill through the floor slab. The sampling pin will then be installed and cemented into place. After a minimum of six hours, the sampling pin completion will be tested for tightness using a helium gas testing set-up. Once each location is tested to be air tight, sub-slab vapor sampling will commence using a Suma Canister with a 1-hour sampling control regulator. Samples will be sent to a Wisconsin Certified analytical laboratory for analysis of CVOCs using Method TO15.

1.2 Additional Soil Borings

KPRG will install six additional soil borings at locations noted on Figure 1 (locations GP-20 through GP-24 and MW-5). The soil borings will extend to at least 12 feet below ground surface (bgs). The soil borings will be advanced using the Geoprobe sampling technique. Continuous soil core samples will be collected. Each core will be field screened with a photoionization detector (PID) for total organic vapors. The core will also be visually inspected and logged using the Unified Soil Classification System (USCS).

Two soil samples will be collected per boring based on field screening and visual inspection. This will yield a total of 12 soil samples. One sample will be from the one to three foot depth interval and one from a deeper interval based on field screening. The samples will be collected using syringes and injected directly into laboratory prepared containers with a methanol preservative. The samples will then be placed on ice and delivered to the analytical laboratory under a completed chain-of-custody. The samples will be analyzed for CVOCs by a Wisconsin certified laboratory.

1.3 Check Working Condition of Existing SSDS

In 2012, KPRG installed a SSDS in the vicinity of the defined PCE release. A follow-up round of field extension test readings will be taken by the installation contractor (RMES). In addition, a set of at least four PID readings will be taken over the course of a single day at the vent of the system. The readings will be recorded and submitted to the WDNR.

1.4 Additional Well Installations and Groundwater Sampling

KPRG will install two additional wells using hollow stem auger drilling. The well locations are shown on Figure 1. Well MW-5 will be a water table monitoring well installed to the north of existing well MW-2. The depth of this well is anticipated to be approximately 25 feet. A deeper piezometer (MW-3D) will also be installed adjacent to existing well MW-3. The depth of the piezometer is anticipated to be approximately 45 to 50 feet. Both wells will be constructed using schedule 40 PVC. The water table well will include a 10-foot screen and the piezometer will include a 5-foot screen. Surface completions will be flush mounts. All well construction will be performed in accordance with NR 141 requirements. Digger's Hotline will be contact to mark public utilities prior to drilling. In addition, a private locate firm will be contracted to check for additional private utilities within the proposed drilling locations.

Upon completion, the wells will be properly developed and the locations and top of casing elevations will be surveyed by a Wisconsin licensed surveyor.

One round of groundwater samples will be collected from the new and all existing wells plus an additional verification round of sampling for the two new wells will be performed. The full round of sampling will include 11 wells and a duplicate sample. The verification round will consist of two wells and a duplicate sample. This will yield a total of 15 groundwater samples. Groundwater sampling will be performed in accordance with procedures previously approved for the site. The samples will be preserved with hydrochloric acid, placed on ice and delivered to the analytical laboratory under a completed chain-of-custody. Samples will be analyzed for CVOCs by a Wisconsin certified laboratory.

1.5 Additional Site Investigation Addendum No. 2

All data generated will be summarized in a Site Investigation Addendum No. 2 report. The report will include an updated geologic cross-section per WDNR request. Any figures will also include the additional information requested by WDNR.

1.6 Investigation Derived Waste

Investigation derived waste (IDW) will be handled in accordance with previously approved practices for this site.

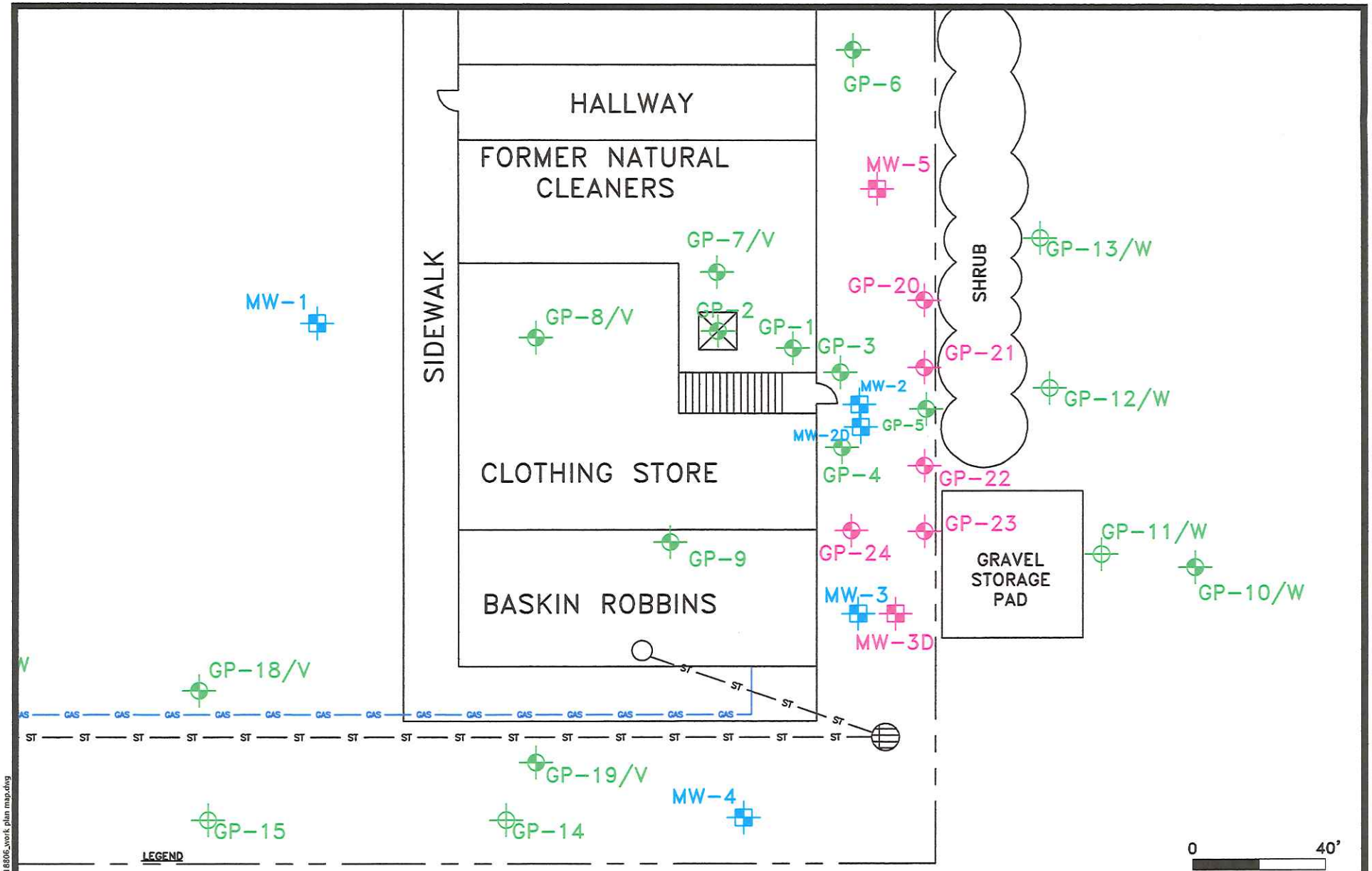
2.0 COST ESTIMATE

The above defined scope of work can be completed for an estimated cost of $33,025. The estimated cost is summarized in Table 1 followed by detailed task costing sheets. The costs are based on the following assumptions:

- Four additional sub-slab soil vapor probes sampled for CVOCs. Standard analytical turnaround.
- Six additional soil borings with two soil samples per borings analyzed for CVOCs with a standard analytical turnaround.

- One-half day of RMES services to check on condition of existing SSDS system. No repairs will be necessary.

- Two new well installations followed by one full round of groundwater sampling and a second verification round of sampling for the two new wells..



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ENVIRONMENTAL CONSULTATION & REMEDIATION

KPRG and Associates, inc.

14665 West Lisbon Road, Suite 2B Brookfield, Wisconsin 53005 Telephone 262-781-0475 Facsimile 262-781-0478

414 Plaza Drive, Suite 106 Westmont, Illinois 60559 Telephone 630-325-1300 Facsimile 630-325-1593

PROPOSED ADDITIONAL GEOPROBE AND MONITORING WELL LOCATIONS

FORMER NATURAL CLEANERS
BAYSIDE, WISCONSIN

Scale: 1" = 40' | Date: November 16, 2016

KPRG Project No. 18806.3 | FIGURE 1

Table 1. Estimated Additional Work Cost Summary 11-16-16 - Natural Cleaners - Bayside, WI

			Contractors						
Task	KPRG Labor	Expenses	Analytical	Driller	SSDS Contractor	Surveyor	Private Locate	IDW Disp.	Totals
1) Interior Vapor Probe Installation/Sampling	$2,870	$1,175	$700	$0	$0	$0	$0	$0	$4,745
2) Soil Borings/Sampling	$1,425	$180	$910	$1,800	$0	$0	$0	$175	$4,490
3) SSDS System Check	$460	$110	$0	$0	$1,500	$0	$0	$0	$2,070
4) Additional Well Installations and Groundwater Sampling	$6,985	$1,280	$825	$4,200	$0	$750	$550	$1,400	$15,990
5) Additional SI Reporting	$5,530	$200	$0	$0	$0	$0	$0	$0	$5,730
Totals	$17,270	$2,945	$2,435	$6,000	$1,500	$750	$550	$1,575	$33,025

KPRG TASK COSTING SHEET

Project: Former Natural Cleaners, Bayside, WI

Task: 1 -Interior Vapor Probe Installation and Sampling

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		4	$540.00
Field Eng./Sci.	$70		32	$2,240.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		2	$90.00
			Total Labor	$2,870.00

External Expenses	Rate	Type	Units	Total
Photoionization Detector	$50	Daily	1	$50.00
Field Vehicle	$60	Daily	4	$240.00
Hammer Drill	$75	Daily	1	$75.00
Vapor Pins	$80	Each	4	$320.00
Water Level Meter	$25	Daily	0	$0.00
Bailers	$15	Each	0	$0.00
Helium Test Kit	$200	Daily	1	$200.00
Summa Canisters/Controller	$60	Each	4	$240.00
Shipping	$50	Est.	1	$50.00
Access Agreement	$250	Est.	0	$0.00
			Total Exp.	$1,175.00

Contractors	Rate	Type	Units	Total
Analytical	$55	VOC-Soil	0	$0.00
	$55	VOC-Water	0	$0.00
	$144	NA Para. - Water	0	$0.00
	$35	TOC-Soil	0	$0.00
	$175	VOC-Vapor	4	$700.00
	$250	Profile	0	$0.00
IDW Disposal	$275	Per Drum Est	0	$0.00
			Total Contractors	$700.00

TASK TOTAL:	$4,745.00

KPRG TASK COSTING SHEET

Project: Former Natural Cleaners, Bayside, WI

Task: 2 - Soil Borings/Sampling

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		4	$540.00
Field Eng./Sci.	$70		12	$840.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		1	$45.00
			Total Labor	$1,425.00

External Expenses	Rate	Type	Units	Total
Photoionization Detector	$50	Daily	1	$50.00
Field Vehicle	$60	Daily	1	$60.00
Soil Sampling Supplies	$20	Daily	1	$20.00
GW Qual. Meters	$150	Daily	0	$0.00
Water Level Meter	$25	Daily	0	$0.00
Bailers	$15	Each	0	$0.00
Slug Test Equip.	$200	Daily	0	$0.00
Summa Canisters	$60	Each	0	$0.00
Shipping	$50	Est.	1	$50.00
Permit	$175	Est.	0	$0.00
			Total Exp.	$180.00

Contractors	Rate	Type	Units	Total
Drilling/Geoprobe	$1,800	Est.	1	$1,800.00
Surveyor	$750	Est.	0	$0.00
Analytical	$55	VOC-Soil	12	$660.00
	$250	Profile	1	$250.00
IDW Disposal	$175	Per Drum Est	1	$175.00
			Total Contractors	$2,885.00

TASK TOTAL:	$4,490.00

KPRG TASK COSTING SHEET

Project: Former Natural Cleaners, Bayside, WI

Task: 3 - SSDS System Check

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		1	$135.00
Field Eng./Sci.	$70		4	$280.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		1	$45.00
			Total Labor	$460.00

External Expenses	Rate	Type	Units	Total
Photoionization Detector	$50	Daily	1	$50.00
Field Vehicle	$60	Daily	1	$60.00
Soil Sampling Supplies	$20	Daily	0	$0.00
GW Qual. Meters	$150	Daily	0	$0.00
Water Level Meter	$25	Daily	0	$0.00
Bailers	$15	Each	0	$0.00
Slug Test Equip.	$200	Daily	0	$0.00
Summa Canisters	$60	Each	0	$0.00
Shipping	$50	Est.	0	$0.00
Permit	$175	Est.	0	$0.00
			Total Exp.	$110.00

Contractors	Rate	Type	Units	Total
SSDS Contractor (RMES)	$1,500	Est.	1	$1,500.00
Surveyor	$750	Est.	0	$0.00
Analytical	$55	VOC-Soil	0	$0.00
	$250	Profile	0	$0.00
IDW Disposal	$175	Per Drum Est	0	$0.00
			Total Contractors	$1,500.00

TASK TOTAL:	$2,070.00

KPRG TASK COSTING SHEET

Project: Former Natural Cleaners, Bayside, WI

Task: 4 - Additional Well Installations and Groundwater Sampling

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		12	$1,620.00
Field Eng./Sci.	$70		76	$5,320.00
CADD	$60		0	$0.00
Admin. Asst/ Word Proc.	$45		1	$45.00
			Total Labor	$6,985.00

External Expenses	Rate	Type	Units	Total
Photoionization Detector	$50	Daily	2	$100.00
Field Vehicle	$60	Daily	6	$360.00
Soil Sampling Supplies	$20	Daily	0	$0.00
GW Qual. Meters	$150	Daily	3	$450.00
Water Level Meter	$25	Daily	3	$75.00
Bailers	$15	Each	13	$195.00
Slug Test Equip.	$200	Daily	0	$0.00
Summa Canisters	$60	Each	0	$0.00
Shipping	$50	Est.	2	$100.00
Permit	$175	Est.	0	$0.00
			Total Exp.	$1,280.00

Contractors	Rate	Type	Units	Total
Drilling	$4,200	Est.	1	$4,200.00
Private Locate	$550	Est.	1	$550.00
Surveyor	$750	Est.	1	$750.00
Analytical	$55	CVOC-W	15	$825.00
	$250	Profile	0	$0.00
IDW Disposal	$175	Per Drum Est	8	$1,400.00
			Total Contractors	$7,725.00

TASK TOTAL:	$15,990.00

KPRG TASK COSTING SHEET

Project: Former Natural Cleaners, Bayside, WI

Task: 5 - Additional SI Reporting

Professional Labor	Rate ($/Hr.)		Units	Total
Principal/Proj. Mgr.	$135		16	$2,160.00
Field Eng./Sci.	$70		40	$2,800.00
CADD	$60		8	$480.00
Admin. Asst/ Word Proc.	$45		2	$90.00
			Total Labor	$5,530.00

External Expenses	Rate	Type	Units	Total
Reproduction	$100	Est.	1	$100.00
Field Vehicle	$60	Daily	0	$0.00
Soil Sampling Supplies	$20	Daily	0	$0.00
GW Qual. Meters	$150	Daily	0	$0.00
Water Level Meter	$25	Daily	0	$0.00
Bailers	$15	Each	0	$0.00
Slug Test Equip.	$200	Daily	0	$0.00
Summa Canisters	$60	Each	0	$0.00
Shipping	$100	Est.	1	$100.00
Permit	$175	Est.	0	$0.00
			Total Exp.	$200.00

Contractors	Rate	Type	Units	Total
Drilling/Geoprobe	$750	Lump Sum	0	$0.00
Surveyor	$750	Est.	0	$0.00
Analytical	$50	VOC-Soil	0	$0.00
	$50	VOC-Water	0	$0.00
	$144	NA Para. - Water	0	$0.00
	$35	TOC-Soil	0	$0.00
	$180	VOC-Vapor	0	$0.00
	$250	Profile	0	$0.00
IDW Disposal	$175	Per Drum Est	0	$0.00
			Total Contractors	$0.00

TASK TOTAL:	$5,730.00