FEHR GRAHAM
ENGINEERING & ENVIRONMENTAL

April 13, 2017

Ms. Julie Brey
Village of Cedar Grove
22 Willow Ave.
Cedar Grove, WI 53013

RE: Sanitary Discharge Report: Notification of Groundwater Chemistry Conditions
Former Dutch Cleaners, 403 S. Main, Cedar Grove, WI

In accordance with the executed July 6, 2012 document *Wastewater Acceptance Contract Between Cedar Grove Wastewater Treatment Facility & Former Dutch Cleaners Responsible Party*, this letter serves as the periodic status report for the system performance and discharge.

The discharge connection was installed on September 17, 2012, and a report was sent to you from Alpha Terra Science (now Fehr Graham) dated November 13, 2012 that documented the construction details and initial sample result.

The permit currently requires quarterly monitoring and sampling, but **we would like to modify this requirement to only sample and report once annually.** The WDNR project manager for the environmental repair case, Mr. Richard Joslin, agrees that the frequency of the sampling from the sump can be reduced based on historically low concentrations. The attached Table and laboratory report summarize the completed activities and results.

On April 10, 2017, Fehr Graham visited the site to inspect the sump discharge system, record total discharge, and take a water sample. Based on the meter reading, a total of 49,230 gallons of water has been pumped from the sump to the sanitary sewer since installation. Since the last sample event, from December 20, 2016 to April 10, 2017; 6510 gallons have been discharged to the WWTP. Based on the flow, an invoice for 6,510 gallons of discharge should be billed for the first quarter of 2017.

A sample of the water was obtained from a sample port in the discharge line for laboratory analysis. Lab results indicate 0.0374 ppm total VOC content in the sump discharge water. This amount is well below the maximum allowable total VOC concentration of 5.0 ppm specified in the permit.

As required by the permit, although our field technician completes the field monitoring activities, I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on a reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense.

The next inspection and sampling event would typically be required in the second quarter of 2017. However, based on the historically low levels, and the WDNR agreement that less frequent sampling is acceptable, **we propose that the next sample event be completed in March 2018. Please let me know if this is acceptable to the Village. If not, please propose an alternate sampling frequency.**

I trust this information meets your needs. Should you have any questions, please feel free to contact me at 920-892-2444.

Sincerely,

Kendrick A. Ebbott, P.G.
Branch Manager

Attachments: Table A.8.II: Sump Groundwater Analytical Table - VOC
Laboratory Analytical Report

Cc: Mr. Richard Joslin, WDNR, via email only
Mr. Jere Ebbers, Responsible Party - Former Dutch Cleaners, via email only
Mr. Tom Berlin, Property Owner, via email only

TABLE A.8.II
Sump Groundwater Analytical Table - VOC
Dutch Cleaners
403 S. Main St., Cedar Grove, WI 53013
BRRTS# 02-60-271527

				Chlorinated VOC's						Petroleum VOC's								
Sample Date	Flow Meter Reading	Project Total Discharged to WWTP	Discharge to WWTP Since Last Reading	PCE	TCE	cis-1,2,-Dichloro ethene	trans-1,2-Dichloro ethene	Vinyl Chloride	*TOTAL CVOC's*	Benzene	Ethyl benzene	1,2-Dichloroethane	Toluene	Xylenes	1,2,4 Trimethyl benzene	1,3,5 Trimethyl benzene	Naphthalene	*TOTAL VOC's*
	gallons	gallon	gallons	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)	(mg/l)
VILLAGE WWTP PERMIT LIMITS									1.0									5.0
9/17/2012	15223		0	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
10/17/2012	15228	50	50	0.0076	<0.00048	0.0011	<0.00089	<0.00018	0.0087	<0.00041	<0.00054	0.00051 J	<0.00067	<0.00263	<0.00097	<0.00083	<0.00089	0.0092
1/10/2013	15299	760	710	0.0097	0.0061 J	0.0034	<0.00089	<0.00018	0.0192	<0.00041	<0.00054	<0.00036	<0.00067	<0.00263	<0.00097	<0.00083	<0.00089	0.0192
4/22/2013	15939	7160	6400	0.0332	0.0011	0.0039	<0.00089	<0.00018	0.0382	<0.00041	<0.00054	<0.00036	<0.00067	<0.00263	<0.00097	<0.00083	<0.00089	0.0382
7/17/2013	16353	11300	4140	0.0080	<0.0043	0.0010	<0.00037	<0.00018	0.0090	<0.00050	<0.00050	<0.00036	<0.00044	<0.00132	<0.00057	<0.0025	<0.0025	0.0090
11/5/2013	16389	11660	360	0.0045	<0.00036	<0.00042	<0.00037	<0.00018	0.0045	<0.00050	<0.00050	<0.00048	<0.00044	<0.00132	<0.00050	<0.00050	<0.0025	0.0045
1/30/2014	16434	12110	450	0.00055 J	<0.00036	<0.00042	<0.00037	<0.00018	0.0006	<0.00050	<0.00050	<0.00048	<0.00044	<0.00132	<0.00050	<0.00050	<0.0025	0.0006
4/24/2014	16615	13920	1810	0.0255	0.0010 J	0.0061	<0.00024	<0.00018	0.0326	<0.00050	<0.00050	<0.00017	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0326
8/13/2014	17159	19360	5440	0.0089	0.00038	0.0010	<0.00026	<0.00018	0.0103	<0.00050	<0.00050	0.00037 J	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0107
1/22/2015	17375	21520	2160	0.0086	0.00039 J	0.0014	<0.00026	<0.00018	0.0104	<0.00050	<0.00050	<0.00017	<0.00050	<0.00118	<0.00050	<0.00050	<0.0025	0.0104
3/20/2015	17385	21620	100	0.0111	0.00033 J	0.0013	<0.00026	<0.00018	0.0127	<0.00050	<0.00050	<0.00017	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0127
6/24/2015	17733	25100	3480	0.0297	0.0011	0.0050	<0.00026	<0.00018	0.0358	<0.00050	<0.00050	<0.00017	<0.00050	<0.00118	<0.00050	<0.00050	<0.0025	0.0358
9/28/2015	17856	26330	1230	0.0086	0.00046 J	0.0024	<0.00026	<0.00018	0.0115	<0.00050	<0.00050	0.00036 J	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0118
12/18/2015	18033	28100	1770	0.0417	0.0016	0.0072	<0.00026	<0.00018	0.0505	<0.00050	<0.00050	<0.00017	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0505
3/14/2016	18389	31660	3560	0.0723	0.0026	0.0111	0.00043 J	<0.00018	0.0864	<0.00050	<0.00050	<0.00017	0.0017	<0.00150	<0.00050	<0.00050	<0.0025	0.0881
6/21/2016	18952	37290	5630	0.0150	0.00079 J	0.0028	<0.00026	<0.00018	0.0186	<0.00050	<0.00050	<0.00017	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0186
9/16/2016	19251	40280	2990	0.0155	0.00066 J	0.0030	<0.00026	<0.00018	0.0192	<0.00050	<0.00050	<0.00017	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0192
12/20/2016	19495	42720	2440	0.0181	0.00084 J	0.0026	<0.00026	<0.00018	0.0215	<0.00050	<0.00050	0.00032 J	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0219
4/10/2017	20146	49230	6510	0.0316	0.00100 J	0.0048	<0.00026	<0.00018	0.0374	<0.00050	<0.00050	<0.00017	<0.00050	<0.00150	<0.00050	<0.00050	<0.0025	0.0374

BOLD = Exceeds WWTP Permit Limit: None
J = Between limit of detection and limit of quantification
NA = Not Analyzed

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

April 13, 2017

Ken Ebbott
Fehr Graham Engineering and Environmental
1237 Pilgrim Rd
Plymouth, WI 53073

RE: Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Dear Ken Ebbott:
Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures

cc: Megan Hansen, Fehr Graham Engineering and Environmental

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

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

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SAMPLE SUMMARY

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40148109001	**SUMP**	Water	04/10/17 13:00	04/11/17 12:05
40148109002	**TB**	Water	04/10/17 00:00	04/11/17 12:05

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SAMPLE ANALYTE COUNT

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40148109001	**SUMP**	EPA 8260	LAP	64	PASI-G
40148109002	**TB**	EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40148109001	**SUMP**					
EPA 8260	cis-1,2-Dichloroethene	4.8	ug/L	1.0	04/13/17 01:17	
EPA 8260	Tetrachloroethene	31.6	ug/L	1.0	04/13/17 01:17	
EPA 8260	Trichloroethene	1.0	ug/L	1.0	04/13/17 01:17	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Sample: SUMP **Lab ID: 40148109001** Collected: 04/10/17 13:00 Received: 04/11/17 12:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		04/13/17 01:17	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		04/13/17 01:17	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/13/17 01:17	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/13/17 01:17	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/13/17 01:17	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/13/17 01:17	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/13/17 01:17	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		04/13/17 01:17	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/13/17 01:17	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/13/17 01:17	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/13/17 01:17	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/13/17 01:17	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/13/17 01:17	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/13/17 01:17	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/13/17 01:17	75-35-4	
cis-1,2-Dichloroethene	**4.8**	ug/L	1.0	0.26	1		04/13/17 01:17	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/13/17 01:17	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/13/17 01:17	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		04/13/17 01:17	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		04/13/17 01:17	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/13/17 01:17	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/13/17 01:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/13/17 01:17	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/13/17 01:17	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/13/17 01:17	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/13/17 01:17	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		04/13/17 01:17	630-20-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Sample: SUMP **Lab ID: 40148109001** Collected: 04/10/17 13:00 Received: 04/11/17 12:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/13/17 01:17	79-34-5	
Tetrachloroethene	**31.6**	ug/L	1.0	0.50	1		04/13/17 01:17	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		04/13/17 01:17	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		04/13/17 01:17	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/13/17 01:17	79-00-5	
Trichloroethene	**1.0**	ug/L	1.0	0.33	1		04/13/17 01:17	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/13/17 01:17	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/13/17 01:17	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/13/17 01:17	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/13/17 01:17	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		04/13/17 01:17	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		04/13/17 01:17	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/13/17 01:17	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: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Sample: TB **Lab ID: 40148109002** Collected: 04/10/17 00:00 Received: 04/11/17 12:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		04/12/17 20:01	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		04/12/17 20:01	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		04/12/17 20:01	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		04/12/17 20:01	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		04/12/17 20:01	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		04/12/17 20:01	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		04/12/17 20:01	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		04/12/17 20:01	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		04/12/17 20:01	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		04/12/17 20:01	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		04/12/17 20:01	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		04/12/17 20:01	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/12/17 20:01	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		04/12/17 20:01	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		04/12/17 20:01	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/12/17 20:01	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/12/17 20:01	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		04/12/17 20:01	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		04/12/17 20:01	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		04/12/17 20:01	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		04/12/17 20:01	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		04/12/17 20:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		04/12/17 20:01	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		04/12/17 20:01	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		04/12/17 20:01	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		04/12/17 20:01	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	100-42-5	
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		04/12/17 20:01	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Sample: TB **Lab ID: 40148109002** Collected: 04/10/17 00:00 Received: 04/11/17 12:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		04/12/17 20:01	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		04/12/17 20:01	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		04/12/17 20:01	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		04/12/17 20:01	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		04/12/17 20:01	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		04/12/17 20:01	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		04/12/17 20:01	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		04/12/17 20:01	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		04/12/17 20:01	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		04/12/17 20:01	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		04/12/17 20:01	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/12/17 20:01	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

QC Batch: 252396 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40148109001, 40148109002

METHOD BLANK: 1489285 Matrix: Water
Associated Lab Samples: 40148109001, 40148109002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	04/12/17 16:59	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	04/12/17 16:59	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	04/12/17 16:59	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	04/12/17 16:59	
1,1-Dichloroethane	ug/L	<0.24	1.0	04/12/17 16:59	
1,1-Dichloroethene	ug/L	<0.41	1.0	04/12/17 16:59	
1,1-Dichloropropene	ug/L	<0.44	1.0	04/12/17 16:59	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	04/12/17 16:59	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	04/12/17 16:59	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	04/12/17 16:59	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	04/12/17 16:59	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	04/12/17 16:59	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	04/12/17 16:59	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	04/12/17 16:59	
1,2-Dichloroethane	ug/L	<0.17	1.0	04/12/17 16:59	
1,2-Dichloropropane	ug/L	<0.23	1.0	04/12/17 16:59	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	04/12/17 16:59	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	04/12/17 16:59	
1,3-Dichloropropane	ug/L	<0.50	1.0	04/12/17 16:59	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	04/12/17 16:59	
2,2-Dichloropropane	ug/L	<0.48	1.0	04/12/17 16:59	
2-Chlorotoluene	ug/L	<0.50	1.0	04/12/17 16:59	
4-Chlorotoluene	ug/L	<0.21	1.0	04/12/17 16:59	
Benzene	ug/L	<0.50	1.0	04/12/17 16:59	
Bromobenzene	ug/L	<0.23	1.0	04/12/17 16:59	
Bromochloromethane	ug/L	<0.34	1.0	04/12/17 16:59	
Bromodichloromethane	ug/L	<0.50	1.0	04/12/17 16:59	
Bromoform	ug/L	<0.50	1.0	04/12/17 16:59	
Bromomethane	ug/L	<2.4	5.0	04/12/17 16:59	
Carbon tetrachloride	ug/L	<0.50	1.0	04/12/17 16:59	
Chlorobenzene	ug/L	<0.50	1.0	04/12/17 16:59	
Chloroethane	ug/L	<0.37	1.0	04/12/17 16:59	
Chloroform	ug/L	<2.5	5.0	04/12/17 16:59	
Chloromethane	ug/L	<0.50	1.0	04/12/17 16:59	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	04/12/17 16:59	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	04/12/17 16:59	
Dibromochloromethane	ug/L	<0.50	1.0	04/12/17 16:59	
Dibromomethane	ug/L	<0.43	1.0	04/12/17 16:59	
Dichlorodifluoromethane	ug/L	<0.22	1.0	04/12/17 16:59	
Diisopropyl ether	ug/L	<0.50	1.0	04/12/17 16:59	
Ethylbenzene	ug/L	<0.50	1.0	04/12/17 16:59	

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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: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

METHOD BLANK: 1489285 Matrix: Water
Associated Lab Samples: 40148109001, 40148109002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	04/12/17 16:59	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	04/12/17 16:59	
m&p-Xylene	ug/L	<1.0	2.0	04/12/17 16:59	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	04/12/17 16:59	
Methylene Chloride	ug/L	<0.23	1.0	04/12/17 16:59	
n-Butylbenzene	ug/L	<0.50	1.0	04/12/17 16:59	
n-Propylbenzene	ug/L	<0.50	1.0	04/12/17 16:59	
Naphthalene	ug/L	<2.5	5.0	04/12/17 16:59	
o-Xylene	ug/L	<0.50	1.0	04/12/17 16:59	
p-Isopropyltoluene	ug/L	<0.50	1.0	04/12/17 16:59	
sec-Butylbenzene	ug/L	<2.2	5.0	04/12/17 16:59	
Styrene	ug/L	<0.50	1.0	04/12/17 16:59	
tert-Butylbenzene	ug/L	<0.18	1.0	04/12/17 16:59	
Tetrachloroethene	ug/L	<0.50	1.0	04/12/17 16:59	
Toluene	ug/L	<0.50	1.0	04/12/17 16:59	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	04/12/17 16:59	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	04/12/17 16:59	
Trichloroethene	ug/L	<0.33	1.0	04/12/17 16:59	
Trichlorofluoromethane	ug/L	<0.18	1.0	04/12/17 16:59	
Vinyl chloride	ug/L	<0.18	1.0	04/12/17 16:59	
4-Bromofluorobenzene (S)	%	86	70-130	04/12/17 16:59	
Dibromofluoromethane (S)	%	99	70-130	04/12/17 16:59	
Toluene-d8 (S)	%	101	70-130	04/12/17 16:59	

LABORATORY CONTROL SAMPLE: 1489286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.6	105	70-131	
1,1,2,2-Tetrachloroethane	ug/L	50	45.6	91	67-130	
1,1,2-Trichloroethane	ug/L	50	50.9	102	70-130	
1,1-Dichloroethane	ug/L	50	48.5	97	70-133	
1,1-Dichloroethene	ug/L	50	50.5	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	45.1	90	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.2	84	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	51.8	104	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	50.3	101	70-130	
1,2-Dichloropropane	ug/L	50	49.7	99	70-130	
1,3-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,4-Dichlorobenzene	ug/L	50	48.7	97	70-130	
Benzene	ug/L	50	53.7	107	60-135	
Bromodichloromethane	ug/L	50	49.6	99	70-130	
Bromoform	ug/L	50	52.2	104	70-130	
Bromomethane	ug/L	50	44.7	89	33-130	

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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: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

LABORATORY CONTROL SAMPLE: 1489286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.4	105	70-138	
Chlorobenzene	ug/L	50	51.5	103	70-130	
Chloroethane	ug/L	50	46.9	94	51-130	
Chloroform	ug/L	50	50.0	100	70-130	
Chloromethane	ug/L	50	47.5	95	25-132	
cis-1,2-Dichloroethene	ug/L	50	50.9	102	69-130	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Dibromochloromethane	ug/L	50	52.4	105	70-130	
Dichlorodifluoromethane	ug/L	50	54.1	108	23-130	
Ethylbenzene	ug/L	50	55.7	111	70-136	
Isopropylbenzene (Cumene)	ug/L	50	56.1	112	70-140	
m&p-Xylene	ug/L	100	115	115	70-138	
Methyl-tert-butyl ether	ug/L	50	48.4	97	66-138	
Methylene Chloride	ug/L	50	48.2	96	70-130	
o-Xylene	ug/L	50	56.4	113	70-134	
Styrene	ug/L	50	55.2	110	70-133	
Tetrachloroethene	ug/L	50	53.4	107	70-138	
Toluene	ug/L	50	56.6	113	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.1	98	70-131	
trans-1,3-Dichloropropene	ug/L	50	49.1	98	69-130	
Trichloroethene	ug/L	50	53.3	107	70-130	
Trichlorofluoromethane	ug/L	50	52.1	104	50-150	
Vinyl chloride	ug/L	50	54.6	109	49-130	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489321 1489322

Parameter	Units	40148012006 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	50.3	50.9	101	102	70-134	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	50	50	46.9	49.2	94	98	67-130	5	20	
1,1,2-Trichloroethane	ug/L	<0.20	50	50	47.5	49.7	95	99	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.24	50	50	47.0	48.0	94	96	70-134	2	20	
1,1-Dichloroethene	ug/L	<0.41	50	50	48.1	49.8	96	100	68-136	3	20	
1,2,4-Trichlorobenzene	ug/L	<2.2	50	50	44.7	50.1	89	100	62-139	12	20	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	50	50	44.0	45.9	88	92	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.18	50	50	48.0	50.7	96	101	70-130	6	20	
1,2-Dichlorobenzene	ug/L	<0.50	50	50	50.7	53.1	101	106	70-130	5	20	
1,2-Dichloroethane	ug/L	<0.17	50	50	46.8	49.1	94	98	70-130	5	20	
1,2-Dichloropropane	ug/L	<0.23	50	50	49.5	50.6	99	101	70-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.50	50	50	46.9	51.6	94	103	70-131	10	20	
1,4-Dichlorobenzene	ug/L	<0.50	50	50	47.9	52.2	96	104	70-130	9	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: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1489321 1489322

Parameter	Units	40148012006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.50	50	50	52.0	52.7	104	105	57-138	1	20	
Bromodichloromethane	ug/L	<0.50	50	50	49.4	51.1	99	102	70-130	3	20	
Bromoform	ug/L	<0.50	50	50	50.3	50.9	101	102	70-130	1	20	
Bromomethane	ug/L	<2.4	50	50	48.8	50.5	98	101	33-130	4	27	
Carbon tetrachloride	ug/L	<0.50	50	50	49.6	50.9	99	102	70-138	3	20	
Chlorobenzene	ug/L	<0.50	50	50	48.9	49.7	98	99	70-130	2	20	
Chloroethane	ug/L	<0.37	50	50	43.7	46.5	87	93	51-130	6	20	
Chloroform	ug/L	<2.5	50	50	48.3	49.8	97	100	70-130	3	20	
Chloromethane	ug/L	<0.50	50	50	45.1	49.6	90	99	25-132	9	20	
cis-1,2-Dichloroethene	ug/L	<0.26	50	50	50.3	51.5	101	103	61-140	2	20	
cis-1,3-Dichloropropene	ug/L	<0.50	50	50	46.5	47.0	93	94	70-130	1	20	
Dibromochloromethane	ug/L	<0.50	50	50	48.6	49.4	97	99	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.22	50	50	50.6	51.6	101	103	23-130	2	20	
Ethylbenzene	ug/L	<0.50	50	50	51.2	52.6	102	105	70-138	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.14	50	50	53.1	53.0	106	106	70-152	0	20	
m&p-Xylene	ug/L	<1.0	100	100	106	107	106	107	70-140	0	20	
Methyl-tert-butyl ether	ug/L	<0.17	50	50	46.1	47.8	92	96	66-139	4	20	
Methylene Chloride	ug/L	<0.23	50	50	46.4	47.9	93	96	70-130	3	20	
o-Xylene	ug/L	<0.50	50	50	51.8	53.3	104	107	70-134	3	20	
Styrene	ug/L	<0.50	50	50	52.0	52.2	104	104	70-138	0	20	
Tetrachloroethene	ug/L	<0.50	50	50	50.0	49.9	100	100	70-148	0	20	
Toluene	ug/L	<0.50	50	50	54.5	51.2	109	102	70-130	6	20	
trans-1,2-Dichloroethene	ug/L	<0.26	50	50	48.1	48.7	96	97	70-133	1	20	
trans-1,3-Dichloropropene	ug/L	<0.23	50	50	45.4	46.7	91	93	69-130	3	20	
Trichloroethene	ug/L	<0.33	50	50	53.1	53.7	106	107	70-131	1	20	
Trichlorofluoromethane	ug/L	<0.18	50	50	50.2	51.2	100	102	50-150	2	20	
Vinyl chloride	ug/L	<0.18	50	50	52.9	55.0	106	110	49-133	4	20	
4-Bromofluorobenzene (S)	%						99	97	70-130			
Dibromofluoromethane (S)	%						96	95	70-130			
Toluene-d8 (S)	%						97	96	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

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

QUALIFIERS

Project: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

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: 14-1115 DUTCH CLEANERS
Pace Project No.: 40148109

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40148109001	**SUMP**	EPA 8260	252396		
40148109002	**TB**	EPA 8260	252396		

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Pace Analytical®
www.pacelabs.com

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

40148109

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:	Fehr Graham
Branch/Location:	Plymouth, WI
Project Contact:	Ken Ebbott
Phone:	(920) 892-2444
Project Number:	14-1115
Project Name:	Dutch Cleaners
Project State:	WI
Sampled By (Print):	Dillon Plamann
Sampled By (Sign):	DMP
PO #:	Regulatory Program:

Quote #:	
Mail To Contact:	Ken Ebbott
Mail To Company:	Fehr Graham
Mail To Address:	kebbott@fehr-graham.com
Invoice To Contact:	AA
Invoice To Company:	AA
Invoice To Address:	AA
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	Analyses Requested: VOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Sump	4-10-17	1300	GW	N	B	X		3-40ml V B	
002	TB						X		1-40ml V B	

	Relinquished By:	Date/Time:	Received By:	Date/Time:
Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	DMP	4-11-17 900	Paree Pau	4/11/17 1130
Transmit Prelim Rush Results by (complete what you want):	Paree Pau	4/11/17 1205	Susan K Wyffe Pace	4-11-17 1205
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Fax:	Relinquished By:	Date/Time:	Received By:	Date/Time:

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

PACE Project No. 40148109

Receipt Temp = K01 °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#: 40148109**

40148109

Client Name: Fehr graham

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: 2.0 /Corr: _____ **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☑ no

Person examining contents:
Date: 4/11/17
Initials: JL

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.
-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	expired 9/14/14 4/11/17 JL
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: _____ **Date:** 4.11.17

F-GB-C-031-Rev.03 (9April2015) SCUR Form