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Twin Disc, Inc.
2019 Annual Monitoring Results
Plant 3 Coolant Release

Subject Property
Twin Disc, Inc.
4600 21st Street
Racine, WI 53405
FID #252007140
BRRTS: 02-52-378657

May 8, 2019

Prepared by:

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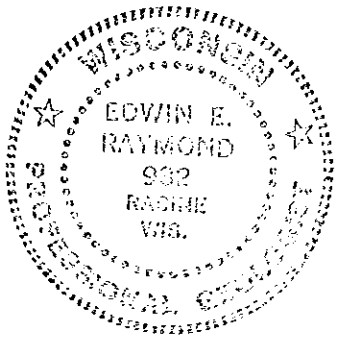
I, Edwin E. Raymond, hereby certify that I am a hydrogeologist as that term is defined under s. NR 712.03(1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.



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Preface

Environmental Audits, Inc. (EA) has exercised reasonable efforts to accomplish the required tasks for the **"Twin Disc, Inc. 2018 Annual Monitoring Results".** EA has employed the professional standards applicable to the environmental consulting field today.

The information required for the **"Twin Disc, Inc. 2018 Annual Monitoring Results"** has been provided to Environmental Audits, Inc. by Twin Disc, Inc. management. This work was accomplished within time and budget limitations. More definitive conclusions may be desired than are warranted by the facts available under these constraints. The conclusions stated in this report are intended for guidance.

WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION WARRANTIES AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Further, the information provided in this report is not to be construed as legal advice or a recommendation as to a course of action unless explicitly stated.

I) Purpose

The primary purpose of this report is to document the groundwater chemistry for the Coolant Release Area Groundwater Monitoring wells CR-1, CR-2, CR-3, CR-4, and CR-5. Twin Disc, Inc. installed a “French Drain” recovery system during June 2009 to enhance the tramp coolant recovery effort.

The purpose of this submittal is to provide an Annual Report or Update per the requirements of s. NR 724.13(e) describing the results of the previous four (4) quarters of groundwater sampling at the Twin Disc, Inc. Plant 3 manufacturing site as a result of a waste coolant release reported to the WDNR on October 22, 2002, FID #2252007140, BRRTS: 02-52-378657. This report deals with the results obtained over the previous year of quarterly analysis performed on the groundwater monitoring wells, commencing during September 2018

The quarterly groundwater-sampling rounds consisted of sampling the five (5) s. NR 141 Groundwater Monitoring Wells.

Monitoring wells CR-4 and CR-5 were constructed on November 17, 2014 as a response to SERTS Spill ID: 20140630SE52-1 (BRRTS: 02-52-562650), initially reported to the WNDR on June 30, 2014. A separate report detailing the monitoring well installation and initial groundwater chemistry was prepared as a “stand alone” document.

The previously submitted documents are incorporated into this document by reference.

INTRODUCTION

Groundwater monitoring wells CR-3, CR-4, and CR-5 were developed in accordance to the procedures detailed in s. NR 141. Groundwater monitoring wells were developed in accordance to the procedures detailed in s. NR 141. Groundwater monitoring well samples, obtained for laboratory analysis, were placed in appropriately preserved sample containers immediately after being collected. Groundwater monitoring well samples were cooled to 4 degrees Celsius by placing the samples in a container and surrounding them with ice. Groundwater monitoring well sample containers were filled to the maximum extent possible to reduce headspace and the possible loss of volatile hydrocarbons. All VOC samples were preserved with a 1:1 addition of hydrochloric acid.

Groundwater monitoring well samples were transported, under Chain of Custody, to Pace Analytical Services, Inc., 1241 Bellevue Street - Suite 9, Green Bay, WI 54302, WDNR Certification Number 405132750, and analyzed for Volatile Organic Compounds (VOC), EPA 8260. Please see Appendix III for groundwater monitoring well sample Chain of Custody.

Groundwater Analytical Results

Diesel Range Organics - WDNR DRO

DRO sampling was discontinued as a regular analytical parameter as of the 2nd Quarter 2016 groundwater analysis.

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Petroleum Volatile Organic Compounds (EPA 8260)

Groundwater analytical results are as follows. Sample results exceeding the appropriate s. NR 140 Enforcement Standard (ES) or Preventative Action Limit (PAL) are highlighted. All Petroleum Volatile Organic Compounds reported are in units of ug/l.

Pace Analytical Services, Inc., 1241 Bellevue Street - Suite 9, Green Bay, WI 54302, WDNR Certification Number 405132750, analyzed these monitoring well samples for Volatile Organic Compounds, utilizing USEPA Method SW8260B/SW5030A. Results of these analyses are as follows:

Groundwater Well CR-1

Sample Description	**Apr-19**	**Feb-19**	**Oct-18**	**Sep-18**	**NR 140 ES**	**NR 140 PAL**
Acetone	NTF	NS	NTF	NTF	1000 ug/l	200 ug/l
Benzene	<0.25	NS	<0.25	<0.25	5 ug/l	0.5 ug/l
Bromodichloromethane	<0.36	NS	<0.36	<0.36	0.6 ug/l	0.06 ug/l
Bromoform	<4.0	NS	<4.0	<4.0	4.4 ug/l	0.44 ug/l
Bromomethane	<0.97	NS	<0.97	<0.97	10 ug/l	1 ug/l
Carbon Disulfide	NTF	NS	NTF	NTF	1000 ug/l	200 ug/l
Carbon Tetrachloride	<0.17	NS	<0.17	<0.17	5 ug/l	0.5 ug/l
Chlorobenzene	<0.71	NS	<0.71	<0.71	NS	NS
Chloroethane	<1.3	NS	<1.3	<1.3	400 ug/l	80 ug/l
Chloroform	<1.3	NS	<1.3	<1.3	6 ug/l	0.6 ug/l
Chloromethane	<2.2	NS	<2.2	<2.2	3 ug/l	0.3 ug/l
Dibromochloromethane	<2.6	NS	<2.6	<2.6	60 ug/l	6 ug/l
1,2-Dibromo-3-chloropropane	<1.8	NS	<1.8	<1.8	0.2 ug/l	0.02 ug/l
1,2-Dibromomethane	<0.83	NS	<0.83	<0.83	NS	NS
1,1-Dichloroethane	<0.27	NS	0.35 J	<0.27	850 ug/l	85 ug/l
1,2-Dichloroethane	<0.28	NS	<0.28	<0.28	5 ug/l	0.5 ug/l
1,1-Dichloroethene	<0.24	NS	<0.24	<0.24	7 ug/l	0.7 ug/l
cis-1,2-Dichloroethene	<0.27	NS	<0.27	<0.27	70 ug/l	7 ug/l
trans-1,2-Dichloroethene	<1.1	NS	<1.1	<1.1	100 ug/l	20 ug/l
1,2-Dichloropropane	<0.28	NS	<0.28	<0.28	5 ug/l	0.5 ug/l
Ethyl Benzene	<0.22	NS	<0.22	<0.22	700 ug/l	140 ug/l
2-Hexanone	NTF	NS	NTF	NTF	NS	NS
Methylene Chloride	<0.58	NS	<0.58	<0.58	5 ug/l	0.5 ug/l
Methyl-tert-Butylether	<1.2	NS	<1.2	<1.2	60 ug/l	6 ug/l
Styrene	<0.47	NS	<0.47	<0.47	100 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	<0.27	NS	<0.27	<0.27	0.2 ug/l	0.02 ug/l
Tetrachloroethene	<0.33	NS	<0.33	<0.33	5 ug/l	0.5 ug/l
Toluene	<0.17	NS	<0.17	<0.17	1 mg/l	0.2 mg/l
1,1,1-Trichloroethane	<0.24	NS	<0.24	<0.24	200 ug/l	40 ug/l
1,1,2-Trichloroethane	<0.55	NS	<0.55	<0.55	5 ug/l	0.5 ug/l
Trichloroethene	0.48 J	NS	0.56 J	0.31 J	5 ug/l	0.5 ug/l
Vinyl Chloride	<0.17	NS	<0.17	<0.17	0.2 ug/l	0.02 ug/l
Total Xylenes	<0.73	NS	<0.73	<0.73	10 mg/l	1 mg/l

VOCs reported in units of ug/l

B: Analyte detected in the associated Method Blank

J: Analyte detected below quanitiation limits

NTF: Not Tested For

Groundwater Well CR-2

Sample Description	Feb-19	Feb-19	Oct-18	Sep-18	NR 140 ES	NR 140 PAL
Acetone	NTF	NS	NTF	NTF	1000 ug/l	200 ug/l
Benzene	<0.25	NS	<0.25	<0.25	5 ug/l	0.5 ug/l
Bromodichloromethane	<0.36	NS	<0.36	<0.36	0.6 ug/l	0.06 ug/l
Bromoform	<4.0	NS	<4.0	<4.0	4.4 ug/l	0.44 ug/l
Bromomethane	<0.97	NS	<0.97	<0.97	10 ug/l	1 ug/l
Carbon Disulfide	NTF	NS	NTF	NTF	1000 ug/l	200 ug/l
Carbon Tetrachloride	<0.17	NS	<0.17	<0.17	5 ug/l	0.5 ug/l
Chlorobenzene	<0.71	NS	<0.71	<0.71	NS	NS
Chloroethane	<1.3	NS	<1.3	<1.3	400 ug/l	80 ug/l
Chloroform	<1.3	NS	<1.3	<1.3	6 ug/l	0.6 ug/l
Chloromethane	<2.2	NS	<2.2	<2.2	3 ug/l	0.3 ug/l
Dibromochloromethane	<2.6	NS	<2.6	<2.6	60 ug/l	6 ug/l
1,2-Dibromo-3-chloropropane	<1.8	NS	<1.8	<1.8	0.2 ug/l	0.02 ug/l
1,2-Dibromomethane	<0.83	NS	<0.83	<0.83	NS	NS
1,1-Dichloroethane	3.9	NS	7.5	3.6	850 ug/l	85 ug/l
1,2-Dichloroethane	<0.28	NS	<0.28	<0.28	5 ug/l	0.5 ug/l
1,1-Dichloroethene	<0.24	NS	<0.24	<0.24	7 ug/l	0.7 ug/l
cis-1,2-Dichloroethene	<0.27	NS	<0.27	<0.27	70 ug/l	7 ug/l
trans-1,2-Dichloroethene	<1.1	NS	<1.1	<1.1	100 ug/l	20 ug/l
1,2-Dichloropropane	<0.28	NS	<0.28	<0.28	5 ug/l	0.5 ug/l
Ethyl Benzene	<0.22	NS	<0.22	<0.22	700 ug/l	140 ug/l
2-Hexanone	NTF	NS	NTF	NTF	NS	NS
Methylene Chloride	<0.58	NS	<0.58	<0.58	5 ug/l	0.5 ug/l
Methyl-tert-Butylether	<1.2	NS	<1.2	<1.2	60 ug/l	6 ug/l
Styrene	<0.47	NS	<0.47	<0.47	100 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	<0.27	NS	<0.27	<0.27	0.2 ug/l	0.02 ug/l
Tetrachloroethene	<0.33	NS	<0.33	<0.33	5 ug/l	0.5 ug/l
Toluene	<0.17	NS	<0.17	<0.17	1 mg/l	0.2 mg/l
1,1,1-Trichloroethane	<0.24	NS	<0.24	<0.24	200 ug/l	40 ug/l
1,1,2-Trichloroethane	<0.55	NS	<0.55	<0.55	5 ug/l	0.5 ug/l
Trichloroethene	<0.26	NS	<0.26	<0.26	5 ug/l	0.5 ug/l
Vinyl Chloride	<0.17	NS	<0.17	<0.17	0.2 ug/l	0.02 ug/l
Total Xylenes	<0.73	NS	<0.73	<0.73	10 mg/l	1 mg/l

VOCs reported in units of ug/l

B: Analyte detected in the associated Method Blank

J: Analyte detected below quanitiation limits

NTF: Not Tested For

Groundwater Well CR-3

Sample Description	Apr-19	Feb-19	Oct-18	Sep-18	NR 140 ES	NR 140 PAL
Acetone	NTF	NTF	NTF	NTF	1000 ug/l	200 ug/l
Benzene	<246	<246	<246	<246	5 ug/l	0.5 ug/l
Bromodichloromethane	<364	<364	<364	<364	0.6 ug/l	0.06 ug/l
Bromoform	<3970	<3970	<3970	<3970	4.4 ug/l	0.44 ug/l
Bromomethane	<971	<971	<971	<971	10 ug/l	1 ug/l
Carbon Disulfide	NTF	NTF	NTF	NTF	1000 ug/l	200 ug/l
Carbon Tetrachloride	<166	<166	<166	<166	5 ug/l	0.5 ug/l
Chlorobenzene	<711	<711	<711	<711	NS	NS
Chloroethane	**55400**	**72600**	**33200**	**63100**	400 ug/l	80 ug/l
Chloroform	<1270	<1270	<1270	<1270	6 ug/l	0.6 ug/l
Chloromethane	<2190	<2190	<2190	<2190	3 ug/l	0.3 ug/l
Dibromochloromethane	<2600	<2600	<2600	<2600	60 ug/l	6 ug/l
1,2-Dibromo-3-chloropropane	<1760	<1760	<1760	<1760	0.2 ug/l	0.02 ug/l
1,2-Dibromomethane	<829	<829	<829	<829	NS	NS
1,1-Dichloroethane	**55800**	**81800**	**55600**	**71900**	850 ug/l	85 ug/l
1,2-Dichloroethane	<260	<260	<260	<260	5 ug/l	0.5 ug/l
1,1-Dichloroethene	**2710**	**2500**	**2300**	**1130**	7 ug/l	0.7 ug/l
cis-1,2-Dichloroethene	<271	<271	<271	<271	70 ug/l	7 ug/l
trans-1,2-Dichloroethene	<1090	<1090	<1090	<1090	100 ug/l	20 ug/l
1,2-Dichloropropane	<283	<283	<283	<283	5 ug/l	0.5 ug/l
Ethyl Benzene	<218	<218	<218	<218	700 ug/l	140 ug/l
2-Hexanone	NTF	NTF	NTF	NTF	NS	NS
Methylene Chloride	<581	<581	<581	<581	5 ug/l	0.5 ug/l
Methyl-tert-Butylether	<1250	<1250	<1250	<1250	60 ug/l	6 ug/l
Napthalene	<1180	<1180	<1180	<1180	40 ug/l	8 ug/l
Styrene	<465	<465	<465	<465	100 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	<275	<275	<275	<275	0.2 ug/l	0.02 ug/l
Tetrachloroethene	<326	<326	<326	<326	5 ug/l	0.5 ug/l
Toluene	<172	<172	<172	<172	1 mg/l	0.2 mg/l
1,1,1-Trichloroethane	**16000**	**12600**	**17400**	<245	200 ug/l	40 ug/l
1,1,2-Trichloroethane	<552	<552	<552	<552	5 ug/l	0.5 ug/l
Trichloroethene	<255	<255	<255	<255	5 ug/l	0.5 ug/l
Vinyl Chloride	**3970**	**6090**	**3090**	**5360**	0.2 ug/l	0.02 ug/l
Total Xylenes	<727	<727	<727	<727	10 mg/l	1 mg/l

VOCs reported in units of ug/l

B: Analyte detected in the associated Method Blank

E: Estimated

J: Analyte detected below quanitiation limits

NTF: Not Tested For

Groundwater Well CR-4

Sample Description	**Apr-19**	**Feb-19**	**Oct-18**	**Sep-18**	**NR 140 ES**	**NR 140 PAL**
Acetone	NTF	NTF	NTF	NTF	1000 ug/l	200 ug/l
Benzene	<0.25	<0.25	<0.25	<0.25	5 ug/l	0.5 ug/l
Bromodichloromethane	<0.36	<0.36	<0.36	<0.36	0.6 ug/l	0.06 ug/l
Bromoform	<4.0	<4.0	<4.0	<4.0	4.4 ug/l	0.44 ug/l
Bromomethane	<0.97	<0.97	<0.97	<0.97	10 ug/l	1 ug/l
Carbon Disulfide	NTF	NTF	NTF	NTF	1000 ug/l	200 ug/l
Carbon Tetrachloride	<0.17	<0.17	<0.17	<0.17	5 ug/l	0.5 ug/l
Chlorobenzene	<0.71	<0.71	<0.71	<0.71	NS	NS
Chloroethane	<1.3	<1.3	<1.3	<1.3	400 ug/l	80 ug/l
Chloroform	<1.3	<1.3	<1.3	<1.3	6 ug/l	0.6 ug/l
Chloromethane	<2.2	<2.2	<2.2	<2.2	3 ug/l	0.3 ug/l
Dibromochloromethane	<2.6	<2.6	<2.6	<2.6	60 ug/l	6 ug/l
1,2-Dibromo-3-chloropropane	<1.8	<1.8	<1.8	<1.8	0.2 ug/l	0.02 ug/l
1,2-Dibromomethane	<0.83	<0.83	<0.83	<0.83	NS	NS
1,1-Dichloroethane	0.95 J	0.94 J	1.3	1.0	850 ug/l	85 ug/l
1,2-Dichloroethane	<0.28	<0.28	<0.28	<0.28	5 ug/l	0.5 ug/l
1,1-Dichloroethene	<0.24	<0.24	<0.24	<0.24	7 ug/l	0.7 ug/l
cis-1,2-Dichloroethene	<0.27	<0.27	<0.27	<0.27	70 ug/l	7 ug/l
trans-1,2-Dichloroethene	<1.1	<1.1	<1.1	<1.1	100 ug/l	20 ug/l
1,2-Dichloropropane	<0.28	<0.28	<0.28	<0.28	5 ug/l	0.5 ug/l
Ethyl Benzene	<0.22	<0.22	<0.22	<0.22	700 ug/l	140 ug/l
2-Hexanone	NTF	NTF	NTF	NTF	NS	NS
Methylene Chloride	<0.58	<0.58	<0.58	<0.58	5 ug/l	0.5 ug/l
Methyl-tert-Butylether	<1.2	<1.2	<1.2	<1.2	60 ug/l	6 ug/l
Napthalene	<1.2	<1.2	<1.2	<1.2	40 ug/l	8 ug/l
Styrene	<0.47	<0.47	<0.47	<0.47	100 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	<0.27	<0.27	<0.27	<0.27	0.2 ug/l	0.02 ug/l
Tetrachloroethene	<0.33	<0.33	<0.33	<0.33	5 ug/l	0.5 ug/l
Toluene	<0.17	<0.17	<0.17	<0.17	1 mg/l	0.2 mg/l
1,2,4- Trimethylbenzene	<0.84	<0.84	<0.84	<0.84	70 ug/l	7 ug/l
1,1,1-Trichloroethane	<0.24	<0.24	<0.24	<0.24	200 ug/l	40 ug/l
1,1,2-Trichloroethane	<0.55	<0.55	<0.55	<0.55	5 ug/l	0.5 ug/l
Trichloroethene	<0.26	<0.26	0.31 J	0.31 J	5 ug/l	0.5 ug/l
Vinyl Chloride	<0.17	<0.17	<0.17	<0.17	0.2 ug/l	0.02 ug/l
Total Xylenes	<0.73	<0.73	<0.73	<0.73	10 mg/l	1 mg/l

VOCs reported in units of ug/l

B: Analyte detected in the associated Method Blank
J: Analyte detected below quanitiation limits
NTF: Not Tested For

Groundwater Well CR-5

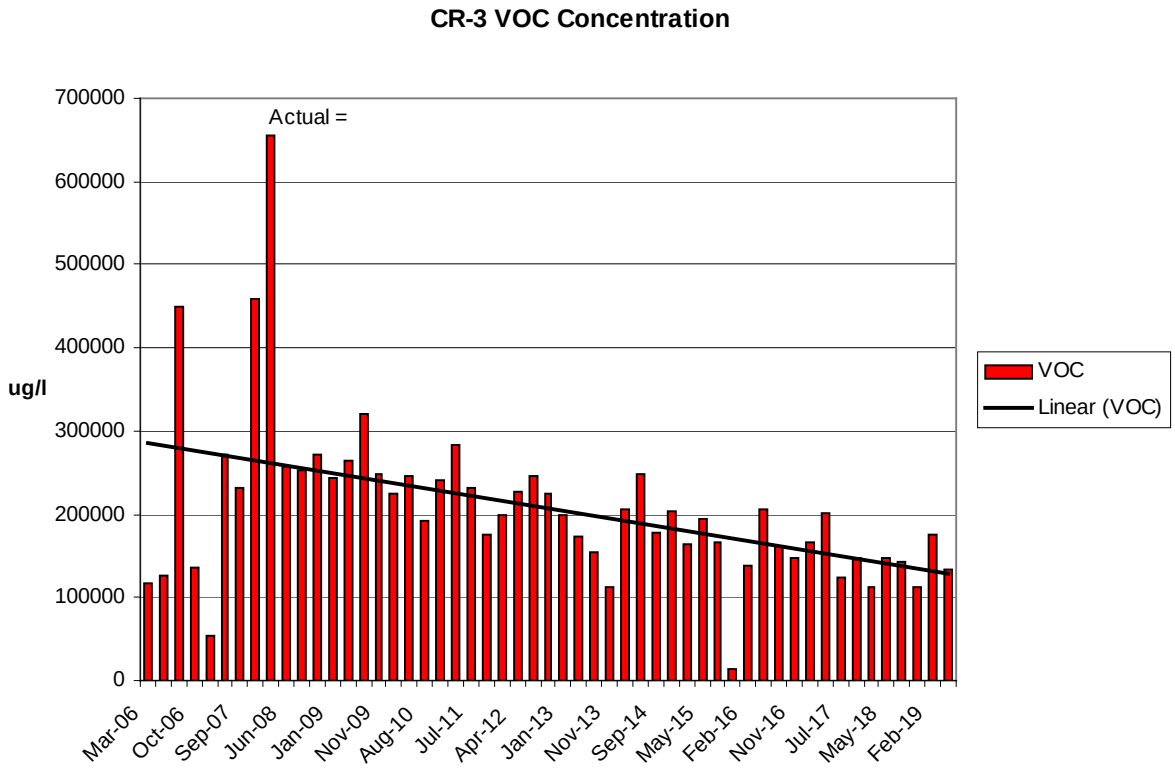
Sample Description	**Apr-19**	**Feb-19**	**Oct-18**	**Sep-18**	**NR 140 ES**	**NR 140 PAL**
Acetone	NTF	NTF	NTF	NTF	1000 ug/l	200 ug/l
Benzene	<0.25	<0.25	<0.25	<0.25	5 ug/l	0.5 ug/l
Bromodichloromethane	<0.36	<0.36	<0.36	<0.36	0.6 ug/l	0.06 ug/l
Bromoform	<4.0	<4.0	<4.0	<4.0	4.4 ug/l	0.44 ug/l
Bromomethane	<0.97	<0.97	<0.97	<0.97	10 ug/l	1 ug/l
Carbon Disulfide	NTF	NTF	NTF	NTF	1000 ug/l	200 ug/l
Carbon Tetrachloride	<0.17	<0.17	<0.17	<0.17	5 ug/l	0.5 ug/l
Chlorobenzene	<0.71	<0.71	<0.71	<0.71	NS	NS
Chloroethane	<1.3	<1.3	<1.3	<1.3	400 ug/l	80 ug/l
Chloroform	<1.3	<1.3	<1.3	<1.3	6 ug/l	0.6 ug/l
Chloromethane	<2.2	<2.2	<2.2	<2.2	3 ug/l	0.3 ug/l
Dibromochloromethane	<2.6	<2.6	<2.6	<2.6	60 ug/l	6 ug/l
1,2-Dibromo-3-chloropropane	<1.8	<1.8	<1.8	<1.8	0.2 ug/l	0.02 ug/l
1,2-Dibromomethane	<0.83	<0.83	<0.83	<0.83	NS	NS
1,1-Dichloroethane	<0.27	<0.27	<0.27	<0.27	850 ug/l	85 ug/l
1,2-Dichloroethane	<0.28	<0.28	<0.28	<0.28	5 ug/l	0.5 ug/l
1,1-Dichloroethene	<0.24	<0.24	<0.24	<0.24	7 ug/l	0.7 ug/l
cis-1,2-Dichloroethene	<0.27	<0.27	<0.27	<0.27	70 ug/l	7 ug/l
trans-1,2-Dichloroethene	<1.1	<1.1	<1.1	<1.1	100 ug/l	20 ug/l
1,2-Dichloropropane	<0.28	<0.28	<0.28	<0.28	5 ug/l	0.5 ug/l
Ethyl Benzene	<0.22	<0.22	<0.22	<0.22	700 ug/l	140 ug/l
2-Hexanone	NTF	NTF	NTF	NTF	NS	NS
Methylene Chloride	<0.58	<0.58	<0.58	<0.58	5 ug/l	0.5 ug/l
Methyl-tert-Butylether	<1.2	<1.2	<1.2	<1.2	60 ug/l	6 ug/l
Styrene	<0.47	<0.47	<0.47	<0.47	100 ug/l	10 ug/l
1,1,2,2-Tetrachloroethane	<0.27	<0.27	<0.27	<0.27	0.2 ug/l	0.02 ug/l
Tetrachloroethene	<0.33	<0.33	<0.33	<0.33	5 ug/l	0.5 ug/l
Toluene	<0.17	<0.17	<0.17	<0.17	1 mg/l	0.2 mg/l
1,1,1-Trichloroethane	<0.24	<0.24	<0.24	<0.24	200 ug/l	40 ug/l
1,1,2-Trichloroethane	<0.55	<0.55	<0.55	<0.55	5 ug/l	0.5 ug/l
Trichloroethene	<0.26	<0.26	<0.26	0.31 J	5 ug/l	0.5 ug/l
Vinyl Chloride	<0.17	<0.17	<0.17	<0.17	0.2 ug/l	0.02 ug/l
Total Xylenes	<0.73	<0.73	<0.73	<0.73	10 mg/l	1 mg/l

VOCs reported in units of ug/l

B: Analyte detected in the associated Method Blank

J: Analyte detected below quanitiation limits

NTF: Not Tested For



Environmental Audits, Inc. detected Chloroethane, during their April 23, 2019 sampling event, at CR-3 (55,400 ug/l). Environmental Audits, Inc. detected Chloroethane, during their February 5, 2019 sampling event, at CR-3 (72,600 ug/l). Environmental Audits, Inc. detected Chloroethane, during their October 9, 2018 sampling event, at CR-3 (33,200 ug/l). Environmental Audits, Inc. detected Chloroethane, during their September 4, 2018 sampling event, at CR-3 (63,100 ug/l). The s. NR 140 ES for Chloroethane was exceeded at CR-3 during the Environmental Audits, Inc. September 4, 2018, October 9, 2018, February 5, 2019, and April 23, 2019 sampling event.

Environmental Audits, Inc. detected 1,1-Dichloroethane, during their April 23, 2019 sampling event, at CR-2 (3.9 ug/l), CR-3 (55,800 ug/l). and CR-4 (0.95 J ug/l). Environmental Audits, Inc. detected 1,1-Dichloroethane, during their February 5, 2019 sampling event, CR-3 (81,800 ug/l) and CR-4 (0.94 J ug/l). Environmental Audits, Inc. detected 1,1-Dichloroethane, during their October 9, 2018 sampling event, at CR-1

(0.35 J ug/l), CR-2 (7.5 ug/l), CR-3 (55,600 ug/l), and CR-4 (1.3 ug/l). Environmental Audits, Inc. detected 1,1-Dichloroethane, during their September 4, 2018 sampling event, at CR-2 (3.6 ug/l), CR-3 (71,900 ug/l), and CR-4 (1.0 ug/l). The s. NR 140 Enforcement Standard (ES) for 1,1-Dichloroethane is 850 ug/L; the Preventative Action Limit (PAL) is 85 ug/L. The s. NR 140 ES for 1,1-Dichloroethane was exceeded at CR-3 during the Environmental Audits, Inc. September 4, 2018, October 9, 2018, February 5, 2019, and April 23, 2019 sampling event.

Environmental Audits, Inc. detected 1,2-Dichloroethane, during the July 20, 2017 sampling event, at CR-3 (181 J ug/l). The s. NR 140 Enforcement Standard (ES) for 1,2-Dichloroethane is 5 ug/L; the Preventative Action Limit (PAL) is 0.5 ug/L. The s. NR 140 ES for 1,2-Dichloroethane was exceeded at CR-3 during the Environmental Audits, Inc. October 2015 and July 20, 2017 sampling event.

Environmental Audits, Inc. detected 1,1-Dichloroethene, during their April 23, 2019 sampling event, at CR-3 (2,710 ug/l). Environmental Audits, Inc. detected 1,1-Dichloroethene, during their February 5, 2019 sampling event, at CR-3 (2,500 ug/l). Environmental Audits, Inc. detected 1,1-Dichloroethene, during their October 9, 2018 sampling event, at CR-3 (2,300 ug/l). Environmental Audits, Inc. detected 1,1-Dichloroethene, during their September 4, 2018 sampling event, at CR-3 (1,130 ug/l). The s. NR 140 Enforcement Standard (ES) for 1,1-Dichloroethene is 7 ug/L; the Preventative Action Limit (PAL) is 0.7 ug/L. The s. NR 140 ES for 1,1-Dichloroethene was exceeded at CR-3 during the Environmental Audits, Inc. September 4, 2018, October 9, 2018, February 5, 2019, and April 23, 2019 sampling event.

Environmental Audits, Inc. detected cis-1,2-Dichloroethene, during their July 20, 2017 sampling event, at CR-3 (163 J ug/l). The PAL is 7 ug/l and the ES is 70 ug/l for cis-1,2-Dichloroethene. The ES was exceeded at CR-3 during July 20, 2017 sampling event.

Environmental Audits, Inc. detected Methylene Chloride, during their May 15, 2018 sampling event, at CR-3 (314 J ug/l). Environmental Audits, Inc. detected Methylene Chloride, during their March 14, 2018 sampling event, at CR-3 (260 J ug/l). The PAL is 0.5 ug/l and the ES is 5 ug/l for Methylene Chloride. The s. NR 140 ES for Methylene Chloride was exceeded at CR-3 during the Environmental Audits, Inc. March 14, 2018 and May 15, 2018 sampling event.

Environmental Audits, Inc. detected 1,1,1-Trichloroethane, during their April 23, 2019 sampling event at CR-3 (16,000 ug/l). Environmental Audits, Inc. detected

1,1,1-Trichloroethane, during their February 5, 2019 sampling event at CR-3 (12,600 ug/l). Environmental Audits, Inc. detected 1,1,1-Trichloroethane, during their October 9, 2018 sampling event at CR-3 (17,400 ug/l) and CR-5 (0.32 J ug/l). The s. NR 140 ES for 1,1,1-Trichloroethane is 200 ug/L; the PAL is 40 ug/L. The s. NR 140 ES for 1,1,1-Trichloroethane was exceeded at CR-3 during the Environmental Audits, Inc. September 4, 2018, October 9, 2018, February 5, 2019, and April 23, 2019 sampling event.

Environmental Audits, Inc. detected Trichloroethene, during their April 23, 2019 sampling event, at CR-1 (0.48 J ug/l). Environmental Audits, Inc. detected Trichloroethene, during their October 9, 2018 sampling event, at CR-1 (0.56 J ug/l). Environmental Audits, Inc. detected Trichloroethene, during their September 4, 2018 sampling event, at CR-1 (0.31 J ug/l). Environmental Audits, Inc. detected Trichloroethene, during their May 15, 2018 sampling event, at CR-1 (0.38 J ug/l). The s. NR 140 ES for Trichloroethene is 5 ug/L; the PAL is 0.5 ug/L. The PAL was exceeded at CR-1 during the Environmental Audits March 14, 2018 and October 9, 2018 sampling event.

Environmental Audits, Inc. detected Vinyl Chloride, during their April 23, 2019 sampling event, at CR-3 (3,970 ug/l). Environmental Audits, Inc. detected Vinyl Chloride, during their February 5, 2019 sampling event, at CR-3 (6,090 ug/l). Environmental Audits, Inc. detected Vinyl Chloride, during their October 9, 2018 sampling event, at CR-3 (3,090 ug/l). Environmental Audits, Inc. detected Vinyl Chloride, during their September 4, 2018 sampling event, at CR-3 (5,380 ug/l). The s. NR 140 ES for Vinyl Chloride is 0.2 ug/L; the PAL is 0.02 ug/L. The s. NR 140 ES for Vinyl Chloride was exceeded at CR-3 during the Environmental Audits, Inc. September 4, 2018, October 9, 2018, February 5, 2019, and April 23, 2019 sampling event.

The above mentioned compounds are "daughter" compounds of 1,1,1-Trichloroethane, an indication that biological/chemical remediation may be occurring. More investigative effort is required to confirm this.

Non-halogenated compounds for which an s. NR 140 Public Health Groundwater Quality Standard ES or PAL has been established that have been detected include the following compounds:

Environmental Audits, Inc. detected Naphthalene, during their May 16, 2016 sampling event, at CR-4 (4.4 J ug/l). The PAL is 8 ug/l and the ES is 40 ug/l for Naphthalene.

1,2,4- Trimethylbenzene was detected, during the Environmental Audits May 16, 2016 sampling event, at CR-4 (1.3 ug/l). The PAL is 7 ug/land the ES is 70 ug/l for 1,2,4-Trimethylbenzene.

DRO sampling was discontinued as a regular analytical parameter as of the 2nd Quarter 2016 groundwater analysis.

Vapor Intrusion:

A Vapor Intrusion characterization standard was added to the NR716 Site Investigation protocol as 716.05(1) during December 2010. This protocol requires all sites exhibiting VOC/CVOC contamination to conduct a testing program to identify and quantify levels of VOC/CVOC vapors present in the subsurface soils and above surface ambient air. The intent of this new requirement is to prevent exposures that negatively impact human health in terms of excess risk per USEPA and Center for Disease Control (CDC) standards.

As a result of this new legislation, a Vapor Intrusion monitoring program must be implemented in order to obtain Site Closure.

The United States Environmental Protection Agency (USEPA) guidance "OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)" EPA530-D-02-004, dated November 2002 and the State of Wisconsin Department of Health and Family Services (WI DHFS) Division of Public Health guidance "Chemical Vapor Intrusion and Residential Indoor Air Guidance for Environmental Consultants and Contractors" dated February 13, 2003 were utilized for the evaluation of the Vapor Intrusion Pathway

To that end, Environmental Audits, Inc. placed thirty-two (32) discrete sub-slab sampling ports around and about the Twin Disc, Inc. Plant 3 facility. These sub-slab sampling ports were sampled commencing March 28, 2012 with the latest sub-slab sampling event occurring July 27, 2017.

The OSWER Draft Guidance recommends that an inhabited building generally be considered "near" subsurface contaminants if it is located within approximately 100 ft laterally or vertically of known or interpolated soil gas or groundwater contaminants.[1]

1 *OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)"* EPA530-D-02-004, dated November 2002, Page 16

The OSWER Draft Guidance states “Petroleum hydrocarbons biodegrade relatively well in unsaturated soils. Therefore, petroleum-related VOCs generally have to be in “free product” state or groundwater very near, if not in contact with, the building foundation to result in vapor intrusion. In contrast, chlorinated solvents undergo limited biodegradation and can cause a vapor intrusion concern even when the source is a long distance away.”[2]

No residences are located within 100 feet of the building proper and therefore an off-site sub-slab Vapor Intrusion investigation would not appear warranted for this Site.

The sub-slab investigation conducted to date has indicated the presence of Volatile Organic compounds beneath the Twin Disc, Inc. Plant 3 facility. Additional investigative effort is warranted to further identify the effects of seasonality on the detected compounds. Additional sample ports are warranted in the Twin Disc, Inc. Plant 3 Engineering and Human Resource offices to confirm or refute the presence of Volatile Organic Compounds in the theoretical plume beneath these office areas.
The complete summary of the Vapor Intrusion findings to date will be included as a standalone document.

Conclusions:

The Site Investigation revealed that the contamination is contained in the soils and groundwater immediately around and about the Tramp Coolant Collection Sump. There is no evidence, from the soil and groundwater investigations conducted to date, that groundwater contamination has migrated off site. No additional groundwater monitoring wells appear to be required to optimize monitoring for a natural attenuation groundwater remedy.

Specific Interim Actions undertaken by Twin Disc, Inc. include the following:
s. NR 708.05(I), the measuring for the presence of free product, visually or through field samples or other appropriate methods. Product level readings are being taken in the monitoring wells utilizing a MMC Oil-Water Interface Detector. These readings are being taken periodically and recorded.

2 *OSWER Draft Guidance for Evaluating the Vapor Intrusion to Indoor Air Pathway from Groundwater and Soils (Subsurface Vapor Intrusion Guidance)”* EPA530-D-02-004, dated November 2002, Page 16

s. NR 708.11(2)(c), extracting free product, leachate or groundwater to restrict migration of a contaminate plume. Free product has been removed from CR-3 through the utilization of a mechanical pump commencing during Fall 2013.

A “French Drain” system was installed, during June 2009, in order to enhance the recovery of tramp coolant present in the surficial groundwater. This “French Drain” system is connected to the existing Tramp Coolant Collection Sump enabling collection and off-site treatment.

Recommendations:

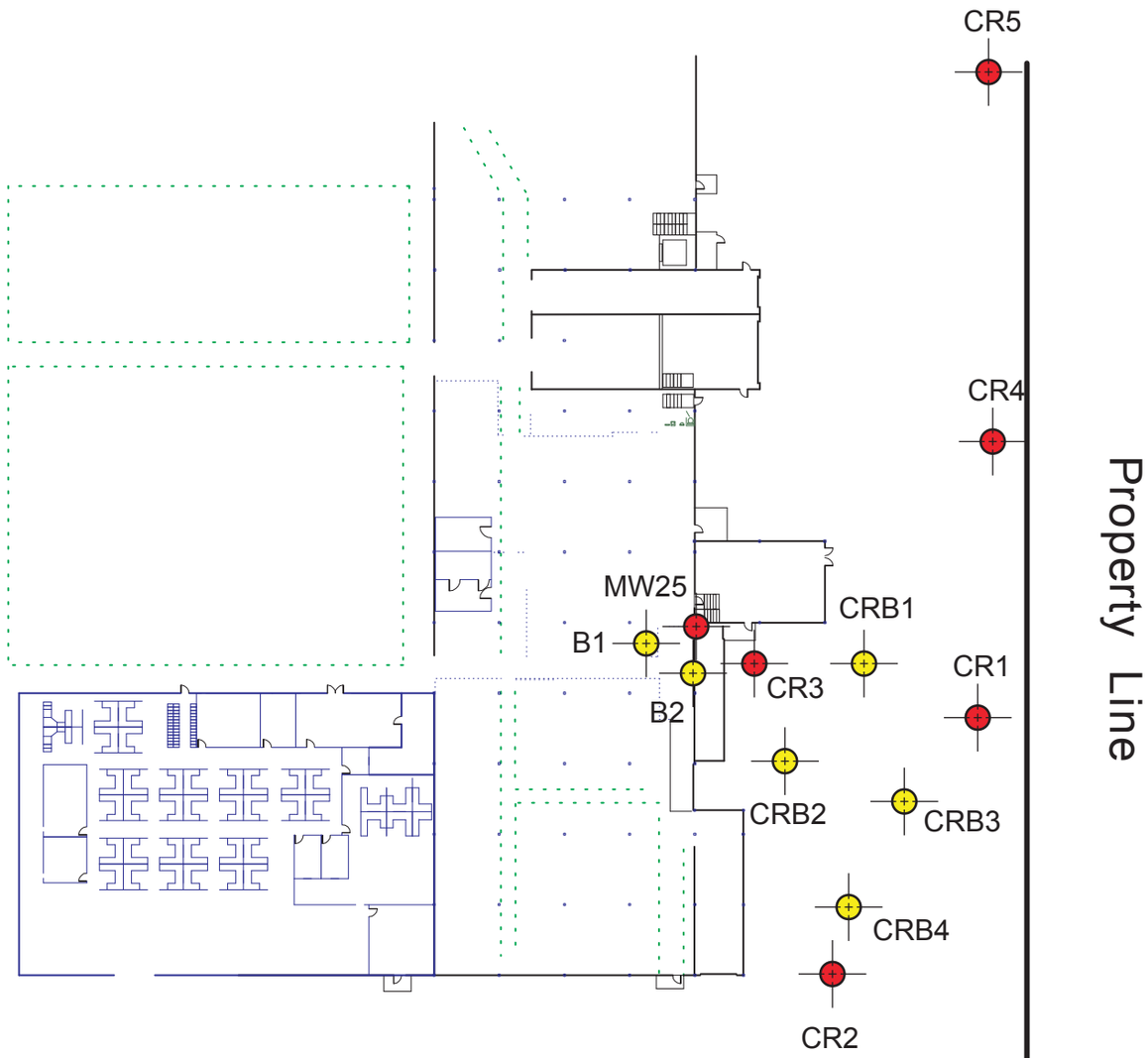
The primary contamination pathway of concern is the surficial groundwater pathway. The Environmental Audits’ groundwater samplings indicate that several s. NR 140 Public Health Enforcement Standards and Preventative Action Limits are exceeded.

It is recommended that the five (5) monitoring wells continue to be sampled quarterly for USEPA Method 8260 Volatile Organic Compounds.

The next groundwater-sampling round will occur during the 3rd Quarter 2019.

The objective is to provide effective remediation of the site in both a practical and cost efficient manner.

Appendix I - Maps



N
W E
S

Not To Scale

Monitoring Well Locations

Geoprobe Locations

Twin Disc, Inc.
Coolant Release
Plant 3 - Level 1

Drawn on 05/03/03

Environmental Audits technical management group
120 Bishops Way ▪ Suite 130 ▪ Brookfield, WI ▪ 53005
Phone: 262.785.9322 ▪ Fax: 262.785.9323

Appendix II – Mann-Kendalls

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	Twin Disc Plant 3	BRRTS No. =	02-52-378657	Well Number =	CR-2

	Compound ->	DRO	Total VOC				
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	2-Aug-16		1.00				
2	10-Nov-16		2.10				
3	22-Feb-17		2.10				
4	12-Apr-17		2.00				
5	20-Jul-17		2.50				
6	17-Oct-17		3.20				
7	12-Mar-18		3.00				
8	15-May-18		2.90				
9	4-Sep-18		3.60				
10	9-Oct-18		7.50				
	Mann Kendall Statistic (S) =	0.0	34.0	0.0	0.0	0.0	0.0
	Number of Rounds (n) =	0	10	0	0	0	0
	Average =	#DIV/0!	2.99	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Standard Deviation =	#DIV/0!	1.749	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	#DIV/0!	0.585	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected		n<4		n<4	n<4	n<4	n<4
Trend ≥ 80% Confidence Level		n<4	INCREASING	n<4	n<4	n<4	n<4
Trend ≥ 90% Confidence Level		n<4	INCREASING	n<4	n<4	n<4	n<4
Stability Test, If No Trend Exists at		n<4		n<4	n<4	n<4	n<4
80% Confidence Level		n<4	NA	n<4	n<4	n<4	n<4

Data Entry By =	EER	Date =	17-Oct-18	Checked By =	EER

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	Twin Disc Plant 3	BRRTS No. =	02-52-378657	Well Number =	CR-1

	Compound ->	DRO	Total VOC				
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	2-Aug-16		1.18				
2	10-Nov-16		1.40				
3	22-Feb-17						
4	12-Apr-17		0.91				
5	20-Jul-17		0.73				
6	17-Oct-17						
7	14-Mar-18		0.32				
8	15-May-18		0.38				
9	4-Sep-18		0.31				
10	9-Oct-18		0.91				
	Mann Kendall Statistic (S) =	0.0	-15.0	0.0	0.0	0.0	0.0
	Number of Rounds (n) =	0	8	0	0	0	0
	Average =	#DIV/0!	0.77	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Standard Deviation =	#DIV/0!	0.409	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
	Coefficient of Variation(CV)=	#DIV/0!	0.533	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Error Check, Blank if No Errors Detected		n<4		n<4	n<4	n<4	n<4
Trend ≥ 80% Confidence Level		n<4	**DECREASING**	n<4	n<4	n<4	n<4
Trend ≥ 90% Confidence Level		n<4	**DECREASING**	n<4	n<4	n<4	n<4
Stability Test, If No Trend Exists at		n<4		n<4	n<4	n<4	n<4
80% Confidence Level		n<4	NA	n<4	n<4	n<4	n<4

Data Entry By =	EER	Date =	17-Oct-18	Checked By =	EER

State of Wisconsin
Department of Natural Resources
Remediation and Redevelopment Program

Mann-Kendall Statistical Test
Form 4400-215 (2/2001)

Notice: This form is the DNR supplied spreadsheet referenced in Appendices A of Comm 46 and NR 746, Wis. Adm. Code. It is provided to consultants as an optional tool for groundwater contaminant trend analysis to support site closure requests under s. Comm 46.07, Comm 46.08, NR 746.07, NR 746.08, Wis. Adm. Code. Use this form or a manual method when seeking case closure under those rules. Earlier versions of this form should not be used.

Instructions: Do not change formulas or other information in cells with a blue background, only cells with a yellow background are used for data entry. To use the spreadsheet, provide at least four rounds and not more than ten rounds of data that is not seasonally affected. Use consistent units. The spreadsheet contains several error checks, and a data entry error may cause "DATA ERR" or "DATE ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at both 80 percent and 90 percent confidence levels. If a declining trend is present at 80 percent but not at 90 percent, a site is still eligible for closure under Comm 46 and NR 746 provided that other conditions in those rules are met. If an increasing or decreasing trend is not present, an additional coefficient of variation test is used to test for stability, as proposed by Wiedemeier et al, 1999. For additional information, refer to the Interim Guidance on Natural Attenuation for Petroleum Releases, dated October 1999. Refer to the guidance for recommendations on data entry for non-detect values.

Site Name =	Twin Disc Plant 3	BRRTS No. =	02-52-378657	Well Number =	CR-3

	Compound ->	DRO	1,1-DCA	1,1-DCE	1,1,1-TCA	VC	Total VOC
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	10-Nov-16		84,600.00	4,030.00	35,100.00	3,460.00	148,646.00
2	22-Feb-17		98,900.00	4,150.00	31,300.00	3,770.00	166,620.00
3	12-Apr-17		115,000.00	6,520.00	38,400.00	5,780.00	202,400.00
4	20-Jul-17		73,000.00	2,390.00	15,200.00	3,530.00	124,289.00
5	17-Oct-17		82,800.00	2,850.00	21,900.00	3,770.00	147,940.00
6	14-Mar-18		60,800.00	2,360.00	18,400.00	3,810.00	111,630.00
7	15-May-18		80,400.00	2,730.00	13,600.00	4,030.00	146,474.00
8	4-Sep-18		71,900.00	1,130.00		5,380.00	141,804.00
9	9-Oct-18		55,600.00	2,300.00	17,400.00	3,090.00	111,904.00
10	5-Feb-19		81,800.00	2,500.00	12,600.00	6,090.00	175,904.00
	Mann Kendall Statistic (S) =	0.0	-21.0	-23.0	-24.0	16.0	-11.0
	Number of Rounds (n) =	0	10	10	9	10	10
	Average =	#DIV/0!	80480.00	3096.00	22655.56	4271.00	147761.10
	Standard Deviation =	#DIV/0!	17291.347	1483.076	9762.698	1064.054	28505.704
	Coefficient of Variation(CV)=	#DIV/0!	0.215	0.479	0.431	0.249	0.193
Error Check, Blank if No Errors Detected		n<4					
Trend ≥ 80% Confidence Level		n<4	DECREASING	DECREASING	DECREASING	INCREASING	DECREASING
Trend ≥ 90% Confidence Level		n<4	DECREASING	DECREASING	DECREASING	INCREASING	No Trend
Stability Test, If No Trend Exists at		n<4					
80% Confidence Level		n<4	NA	NA	NA	NA	NA

Data Entry By =	EER	Date =	25-Feb-19	Checked By =	EER

Appendix III – Lab Reports

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

October 15, 2018

John Ruetz
Environmental Audits Inc
11327 W Lincoln Ave
West Allis, WI 53227

RE: Project: TD P3 CR
Pace Project No.: 40177472

Dear John Ruetz:
Enclosed are the analytical results for sample(s) received by the laboratory on October 11, 2018. 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: Ed Raymond, Environmental Audits, Inc
Stephanie Wagner, Environmental Audits, Inc.

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

CERTIFICATIONS

Project: TD P3 CR
Pace Project No.: 40177472

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: TD P3 CR
Pace Project No.: 40177472

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40177472001	**CR-1**	Water	10/09/18 00:00	10/11/18 10:30
40177472002	**CR-2**	Water	10/09/18 00:00	10/11/18 10:30
40177472003	**CR-3**	Water	10/09/18 00:00	10/11/18 10:30
40177472004	**CR-4**	Water	10/09/18 00:00	10/11/18 10:30
40177472005	**CR-5**	Water	10/09/18 00:00	10/11/18 10:30
40177472006	**TRIP BLANK**	Water	10/09/18 00:00	10/11/18 10:30

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

SAMPLE ANALYTE COUNT

Project: TD P3 CR
Pace Project No.: 40177472

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40177472001	**CR-1**	EPA 8260	LAP	64
40177472002	**CR-2**	EPA 8260	LAP	64
40177472003	**CR-3**	EPA 8260	LAP	64
40177472004	**CR-4**	EPA 8260	LAP	64
40177472005	**CR-5**	EPA 8260	LAP	64
40177472006	**TRIP BLANK**	EPA 8260	LAP	64

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-1 **Lab ID: 40177472001** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 14:53	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/12/18 14:53	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 14:53	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/12/18 14:53	79-00-5	
1,1-Dichloroethane	**0.35J**	ug/L	1.0	0.27	1		10/12/18 14:53	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 14:53	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/12/18 14:53	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/12/18 14:53	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/12/18 14:53	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/12/18 14:53	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/12/18 14:53	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/12/18 14:53	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/12/18 14:53	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 14:53	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 14:53	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 14:53	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/12/18 14:53	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/12/18 14:53	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/12/18 14:53	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/12/18 14:53	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/12/18 14:53	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/12/18 14:53	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/12/18 14:53	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/12/18 14:53	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 14:53	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/12/18 14:53	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/12/18 14:53	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/12/18 14:53	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/12/18 14:53	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 14:53	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 14:53	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/12/18 14:53	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/12/18 14:53	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/12/18 14:53	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/12/18 14:53	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/12/18 14:53	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/12/18 14:53	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/12/18 14:53	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/12/18 14:53	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 14:53	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/12/18 14:53	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/12/18 14:53	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/12/18 14:53	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 14:53	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/12/18 14:53	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/12/18 14:53	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-1 **Lab ID: 40177472001** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/12/18 14:53	108-88-3	
Trichloroethene	**0.58J**	ug/L	1.0	0.26	1		10/12/18 14:53	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/18 14:53	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 14:53	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/12/18 14:53	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/12/18 14:53	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/12/18 14:53	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 14:53	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/12/18 14:53	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 14:53	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/12/18 14:53	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/12/18 14:53	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/18 14:53	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/12/18 14:53	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/12/18 14:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/18 14:53	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/12/18 14:53	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/12/18 14:53	2037-26-5	

Sample: CR-2 **Lab ID: 40177472002** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 15:15	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/12/18 15:15	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 15:15	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/12/18 15:15	79-00-5	
1,1-Dichloroethane	**7.5**	ug/L	1.0	0.27	1		10/12/18 15:15	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 15:15	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/12/18 15:15	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/12/18 15:15	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/12/18 15:15	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/12/18 15:15	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/12/18 15:15	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/12/18 15:15	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/12/18 15:15	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 15:15	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 15:15	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 15:15	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/12/18 15:15	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/12/18 15:15	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/12/18 15:15	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-2 **Lab ID: 40177472002** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/12/18 15:15	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/12/18 15:15	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/12/18 15:15	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/12/18 15:15	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/12/18 15:15	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 15:15	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/12/18 15:15	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/12/18 15:15	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/12/18 15:15	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/12/18 15:15	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 15:15	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 15:15	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/12/18 15:15	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/12/18 15:15	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/12/18 15:15	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/12/18 15:15	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/12/18 15:15	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/12/18 15:15	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/12/18 15:15	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/12/18 15:15	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 15:15	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/12/18 15:15	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/12/18 15:15	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/12/18 15:15	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 15:15	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/12/18 15:15	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/12/18 15:15	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/12/18 15:15	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 15:15	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/18 15:15	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 15:15	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/12/18 15:15	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/12/18 15:15	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/12/18 15:15	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 15:15	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/12/18 15:15	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 15:15	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/12/18 15:15	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/12/18 15:15	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/18 15:15	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/12/18 15:15	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/12/18 15:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/18 15:15	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/12/18 15:15	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		10/12/18 15:15	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-3 **Lab ID: 40177472003** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<269**	ug/L	1000	269	1000		10/12/18 20:06	630-20-6	
1,1,1-Trichloroethane	**17400**	ug/L	1000	245	1000		10/12/18 20:06	71-55-6	
1,1,2,2-Tetrachloroethane	**<275**	ug/L	1000	275	1000		10/12/18 20:06	79-34-5	
1,1,2-Trichloroethane	**<552**	ug/L	5000	552	1000		10/12/18 20:06	79-00-5	
1,1-Dichloroethane	**55600**	ug/L	1000	273	1000		10/12/18 20:06	75-34-3	
1,1-Dichloroethene	**2300**	ug/L	1000	245	1000		10/12/18 20:06	75-35-4	
1,1-Dichloropropene	**<540**	ug/L	1800	540	1000		10/12/18 20:06	563-58-6	
1,2,3-Trichlorobenzene	**<626**	ug/L	5000	626	1000		10/12/18 20:06	87-61-6	
1,2,3-Trichloropropane	**<591**	ug/L	5000	591	1000		10/12/18 20:06	96-18-4	
1,2,4-Trichlorobenzene	**<951**	ug/L	5000	951	1000		10/12/18 20:06	120-82-1	
1,2,4-Trimethylbenzene	**<841**	ug/L	2800	841	1000		10/12/18 20:06	95-63-6	
1,2-Dibromo-3-chloropropane	**<1760**	ug/L	5880	1760	1000		10/12/18 20:06	96-12-8	
1,2-Dibromoethane (EDB)	**<829**	ug/L	2760	829	1000		10/12/18 20:06	106-93-4	
1,2-Dichlorobenzene	**<705**	ug/L	2350	705	1000		10/12/18 20:06	95-50-1	
1,2-Dichloroethane	**<280**	ug/L	1000	280	1000		10/12/18 20:06	107-06-2	
1,2-Dichloropropane	**<283**	ug/L	1000	283	1000		10/12/18 20:06	78-87-5	
1,3,5-Trimethylbenzene	**<873**	ug/L	2910	873	1000		10/12/18 20:06	108-67-8	
1,3-Dichlorobenzene	**<628**	ug/L	2090	628	1000		10/12/18 20:06	541-73-1	
1,3-Dichloropropane	**<826**	ug/L	2750	826	1000		10/12/18 20:06	142-28-9	
1,4-Dichlorobenzene	**<944**	ug/L	3150	944	1000		10/12/18 20:06	106-46-7	
2,2-Dichloropropane	**<2270**	ug/L	7550	2270	1000		10/12/18 20:06	594-20-7	
2-Chlorotoluene	**<926**	ug/L	5000	926	1000		10/12/18 20:06	95-49-8	
4-Chlorotoluene	**<756**	ug/L	2520	756	1000		10/12/18 20:06	106-43-4	
Benzene	**<246**	ug/L	1000	246	1000		10/12/18 20:06	71-43-2	
Bromobenzene	**<241**	ug/L	1000	241	1000		10/12/18 20:06	108-86-1	
Bromochloromethane	**<362**	ug/L	5000	362	1000		10/12/18 20:06	74-97-5	
Bromodichloromethane	**<364**	ug/L	1210	364	1000		10/12/18 20:06	75-27-4	
Bromoform	**<3970**	ug/L	13200	3970	1000		10/12/18 20:06	75-25-2	
Bromomethane	**<971**	ug/L	5000	971	1000		10/12/18 20:06	74-83-9	
Carbon tetrachloride	**<166**	ug/L	1000	166	1000		10/12/18 20:06	56-23-5	
Chlorobenzene	**<711**	ug/L	2370	711	1000		10/12/18 20:06	108-90-7	
Chloroethane	**33200**	ug/L	5000	1340	1000		10/12/18 20:06	75-00-3	
Chloroform	**<1270**	ug/L	5000	1270	1000		10/12/18 20:06	67-66-3	
Chloromethane	**<2190**	ug/L	7300	2190	1000		10/12/18 20:06	74-87-3	
Dibromochloromethane	**<2600**	ug/L	8670	2600	1000		10/12/18 20:06	124-48-1	
Dibromomethane	**<937**	ug/L	3120	937	1000		10/12/18 20:06	74-95-3	
Dichlorodifluoromethane	**<500**	ug/L	5000	500	1000		10/12/18 20:06	75-71-8	
Diisopropyl ether	**<1890**	ug/L	6290	1890	1000		10/12/18 20:06	108-20-3	
Ethylbenzene	**<218**	ug/L	1000	218	1000		10/12/18 20:06	100-41-4	
Hexachloro-1,3-butadiene	**<1180**	ug/L	5000	1180	1000		10/12/18 20:06	87-68-3	
Isopropylbenzene (Cumene)	**<393**	ug/L	5000	393	1000		10/12/18 20:06	98-82-8	
Methyl-tert-butyl ether	**<1250**	ug/L	4150	1250	1000		10/12/18 20:06	1634-04-4	
Methylene Chloride	**<581**	ug/L	5000	581	1000		10/12/18 20:06	75-09-2	
Naphthalene	**<1180**	ug/L	5000	1180	1000		10/12/18 20:06	91-20-3	
Styrene	**<465**	ug/L	1550	465	1000		10/12/18 20:06	100-42-5	
Tetrachloroethene	**<326**	ug/L	1090	326	1000		10/12/18 20:06	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-3 **Lab ID: 40177472003** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<172**	ug/L	5000	172	1000		10/12/18 20:06	108-88-3	
Trichloroethene	**<255**	ug/L	1000	255	1000		10/12/18 20:06	79-01-6	
Trichlorofluoromethane	**<215**	ug/L	1000	215	1000		10/12/18 20:06	75-69-4	
Vinyl chloride	**3090**	ug/L	1000	175	1000		10/12/18 20:06	75-01-4	
cis-1,2-Dichloroethene	**<271**	ug/L	1000	271	1000		10/12/18 20:06	156-59-2	
cis-1,3-Dichloropropene	**<3630**	ug/L	12100	3630	1000		10/12/18 20:06	10061-01-5	
m&p-Xylene	**<465**	ug/L	2000	465	1000		10/12/18 20:06	179601-23-1	
n-Butylbenzene	**<708**	ug/L	2360	708	1000		10/12/18 20:06	104-51-8	
n-Propylbenzene	**<811**	ug/L	5000	811	1000		10/12/18 20:06	103-65-1	
o-Xylene	**<262**	ug/L	1000	262	1000		10/12/18 20:06	95-47-6	
p-Isopropyltoluene	**<800**	ug/L	2670	800	1000		10/12/18 20:06	99-87-6	
sec-Butylbenzene	**<849**	ug/L	5000	849	1000		10/12/18 20:06	135-98-8	
tert-Butylbenzene	**<304**	ug/L	1010	304	1000		10/12/18 20:06	98-06-6	
trans-1,2-Dichloroethene	**<1090**	ug/L	3640	1090	1000		10/12/18 20:06	156-60-5	
trans-1,3-Dichloropropene	**<4370**	ug/L	14600	4370	1000		10/12/18 20:06	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1000		10/12/18 20:06	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1000		10/12/18 20:06	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1000		10/12/18 20:06	2037-26-5	

Sample: CR-4 **Lab ID: 40177472004** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 15:38	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/12/18 15:38	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 15:38	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/12/18 15:38	79-00-5	
1,1-Dichloroethane	**1.3**	ug/L	1.0	0.27	1		10/12/18 15:38	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 15:38	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/12/18 15:38	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/12/18 15:38	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/12/18 15:38	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/12/18 15:38	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/12/18 15:38	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/12/18 15:38	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/12/18 15:38	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 15:38	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 15:38	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 15:38	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/12/18 15:38	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/12/18 15:38	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/12/18 15:38	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-4 **Lab ID: 40177472004** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/12/18 15:38	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/12/18 15:38	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/12/18 15:38	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/12/18 15:38	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/12/18 15:38	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 15:38	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/12/18 15:38	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/12/18 15:38	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/12/18 15:38	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/12/18 15:38	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 15:38	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 15:38	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/12/18 15:38	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/12/18 15:38	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/12/18 15:38	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/12/18 15:38	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/12/18 15:38	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/12/18 15:38	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/12/18 15:38	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/12/18 15:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 15:38	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/12/18 15:38	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/12/18 15:38	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/12/18 15:38	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 15:38	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/12/18 15:38	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/12/18 15:38	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/12/18 15:38	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 15:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/18 15:38	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 15:38	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/12/18 15:38	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/12/18 15:38	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/12/18 15:38	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 15:38	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/12/18 15:38	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 15:38	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/12/18 15:38	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/12/18 15:38	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/18 15:38	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/12/18 15:38	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/12/18 15:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/12/18 15:38	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		10/12/18 15:38	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/12/18 15:38	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: TD P3 CR
Pace Project No.: 40177472

Sample: CR-5 **Lab ID: 40177472005** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 16:00	630-20-6	
1,1,1-Trichloroethane	**0.32J**	ug/L	1.0	0.24	1		10/12/18 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 16:00	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/12/18 16:00	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 16:00	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 16:00	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/12/18 16:00	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/12/18 16:00	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/12/18 16:00	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/12/18 16:00	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/12/18 16:00	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/12/18 16:00	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/12/18 16:00	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 16:00	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 16:00	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 16:00	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/12/18 16:00	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/12/18 16:00	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/12/18 16:00	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/12/18 16:00	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/12/18 16:00	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/12/18 16:00	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/12/18 16:00	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/12/18 16:00	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 16:00	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/12/18 16:00	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/12/18 16:00	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/12/18 16:00	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/12/18 16:00	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 16:00	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 16:00	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/12/18 16:00	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/12/18 16:00	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/12/18 16:00	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/12/18 16:00	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/12/18 16:00	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/12/18 16:00	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/12/18 16:00	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/12/18 16:00	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 16:00	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/12/18 16:00	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/12/18 16:00	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/12/18 16:00	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 16:00	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/12/18 16:00	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/12/18 16:00	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

Project: TD P3 CR
Pace Project No.: 40177472

Sample: CR-5 **Lab ID: 40177472005** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/12/18 16:00	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 16:00	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/18 16:00	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 16:00	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/12/18 16:00	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/12/18 16:00	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/12/18 16:00	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 16:00	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/12/18 16:00	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 16:00	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/12/18 16:00	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/12/18 16:00	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/18 16:00	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/12/18 16:00	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/12/18 16:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		10/12/18 16:00	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		10/12/18 16:00	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		10/12/18 16:00	2037-26-5	

Sample: TRIP BLANK **Lab ID: 40177472006** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 13:01	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		10/12/18 13:01	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 13:01	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		10/12/18 13:01	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		10/12/18 13:01	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 13:01	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		10/12/18 13:01	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		10/12/18 13:01	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		10/12/18 13:01	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		10/12/18 13:01	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		10/12/18 13:01	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		10/12/18 13:01	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		10/12/18 13:01	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 13:01	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 13:01	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		10/12/18 13:01	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		10/12/18 13:01	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		10/12/18 13:01	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		10/12/18 13:01	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40177472

Sample: TRIP BLANK **Lab ID: 40177472006** Collected: 10/09/18 00:00 Received: 10/11/18 10:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		10/12/18 13:01	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		10/12/18 13:01	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		10/12/18 13:01	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		10/12/18 13:01	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		10/12/18 13:01	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		10/12/18 13:01	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		10/12/18 13:01	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		10/12/18 13:01	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		10/12/18 13:01	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		10/12/18 13:01	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 13:01	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 13:01	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		10/12/18 13:01	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		10/12/18 13:01	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		10/12/18 13:01	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		10/12/18 13:01	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		10/12/18 13:01	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		10/12/18 13:01	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		10/12/18 13:01	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		10/12/18 13:01	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 13:01	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		10/12/18 13:01	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		10/12/18 13:01	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		10/12/18 13:01	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		10/12/18 13:01	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		10/12/18 13:01	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		10/12/18 13:01	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		10/12/18 13:01	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 13:01	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		10/12/18 13:01	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		10/12/18 13:01	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		10/12/18 13:01	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		10/12/18 13:01	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		10/12/18 13:01	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		10/12/18 13:01	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		10/12/18 13:01	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		10/12/18 13:01	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		10/12/18 13:01	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		10/12/18 13:01	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		10/12/18 13:01	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		10/12/18 13:01	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		10/12/18 13:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		10/12/18 13:01	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		10/12/18 13:01	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		10/12/18 13:01	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: TD P3 CR
Pace Project No.: 40177472

QC Batch: 302979 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40177472001, 40177472002, 40177472003, 40177472004, 40177472005, 40177472006

METHOD BLANK: 1769682 Matrix: Water
Associated Lab Samples: 40177472001, 40177472002, 40177472003, 40177472004, 40177472005, 40177472006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	10/12/18 11:08	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	10/12/18 11:08	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	10/12/18 11:08	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	10/12/18 11:08	
1,1-Dichloroethane	ug/L	<0.27	1.0	10/12/18 11:08	
1,1-Dichloroethene	ug/L	<0.24	1.0	10/12/18 11:08	
1,1-Dichloropropene	ug/L	<0.54	1.8	10/12/18 11:08	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	10/12/18 11:08	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	10/12/18 11:08	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	10/12/18 11:08	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	10/12/18 11:08	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	10/12/18 11:08	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	10/12/18 11:08	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	10/12/18 11:08	
1,2-Dichloroethane	ug/L	<0.28	1.0	10/12/18 11:08	
1,2-Dichloropropane	ug/L	<0.28	1.0	10/12/18 11:08	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	10/12/18 11:08	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	10/12/18 11:08	
1,3-Dichloropropane	ug/L	<0.83	2.8	10/12/18 11:08	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	10/12/18 11:08	
2,2-Dichloropropane	ug/L	<2.3	7.6	10/12/18 11:08	
2-Chlorotoluene	ug/L	<0.93	5.0	10/12/18 11:08	
4-Chlorotoluene	ug/L	<0.76	2.5	10/12/18 11:08	
Benzene	ug/L	<0.25	1.0	10/12/18 11:08	
Bromobenzene	ug/L	<0.24	1.0	10/12/18 11:08	
Bromochloromethane	ug/L	<0.36	5.0	10/12/18 11:08	
Bromodichloromethane	ug/L	<0.36	1.2	10/12/18 11:08	
Bromoform	ug/L	<4.0	13.2	10/12/18 11:08	
Bromomethane	ug/L	<0.97	5.0	10/12/18 11:08	
Carbon tetrachloride	ug/L	<0.17	1.0	10/12/18 11:08	
Chlorobenzene	ug/L	<0.71	2.4	10/12/18 11:08	
Chloroethane	ug/L	<1.3	5.0	10/12/18 11:08	
Chloroform	ug/L	<1.3	5.0	10/12/18 11:08	
Chloromethane	ug/L	<2.2	7.3	10/12/18 11:08	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	10/12/18 11:08	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	10/12/18 11:08	
Dibromochloromethane	ug/L	<2.6	8.7	10/12/18 11:08	
Dibromomethane	ug/L	<0.94	3.1	10/12/18 11:08	
Dichlorodifluoromethane	ug/L	<0.50	5.0	10/12/18 11:08	
Diisopropyl ether	ug/L	<1.9	6.3	10/12/18 11:08	
Ethylbenzene	ug/L	<0.22	1.0	10/12/18 11:08	

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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: TD P3 CR
Pace Project No.: 40177472

METHOD BLANK: 1769682 Matrix: Water
Associated Lab Samples: 40177472001, 40177472002, 40177472003, 40177472004, 40177472005, 40177472006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	10/12/18 11:08	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	10/12/18 11:08	
m&p-Xylene	ug/L	<0.47	2.0	10/12/18 11:08	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	10/12/18 11:08	
Methylene Chloride	ug/L	<0.58	5.0	10/12/18 11:08	
n-Butylbenzene	ug/L	<0.71	2.4	10/12/18 11:08	
n-Propylbenzene	ug/L	<0.81	5.0	10/12/18 11:08	
Naphthalene	ug/L	<1.2	5.0	10/12/18 11:08	
o-Xylene	ug/L	<0.26	1.0	10/12/18 11:08	
p-Isopropyltoluene	ug/L	<0.80	2.7	10/12/18 11:08	
sec-Butylbenzene	ug/L	<0.85	5.0	10/12/18 11:08	
Styrene	ug/L	<0.47	1.6	10/12/18 11:08	
tert-Butylbenzene	ug/L	<0.30	1.0	10/12/18 11:08	
Tetrachloroethene	ug/L	<0.33	1.1	10/12/18 11:08	
Toluene	ug/L	<0.17	5.0	10/12/18 11:08	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	10/12/18 11:08	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	10/12/18 11:08	
Trichloroethene	ug/L	<0.26	1.0	10/12/18 11:08	
Trichlorofluoromethane	ug/L	<0.21	1.0	10/12/18 11:08	
Vinyl chloride	ug/L	<0.17	1.0	10/12/18 11:08	
4-Bromofluorobenzene (S)	%	98	70-130	10/12/18 11:08	
Dibromofluoromethane (S)	%	98	70-130	10/12/18 11:08	
Toluene-d8 (S)	%	103	70-130	10/12/18 11:08	

LABORATORY CONTROL SAMPLE: 1769683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	57.3	115	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	50.0	100	67-130	
1,1,2-Trichloroethane	ug/L	50	52.2	104	70-130	
1,1-Dichloroethane	ug/L	50	50.7	101	70-134	
1,1-Dichloroethene	ug/L	50	50.3	101	75-132	
1,2,4-Trichlorobenzene	ug/L	50	52.2	104	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.6	103	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	53.0	106	70-130	
1,2-Dichlorobenzene	ug/L	50	51.6	103	70-130	
1,2-Dichloroethane	ug/L	50	53.1	106	73-134	
1,2-Dichloropropane	ug/L	50	49.7	99	79-128	
1,3-Dichlorobenzene	ug/L	50	51.2	102	70-130	
1,4-Dichlorobenzene	ug/L	50	51.0	102	70-130	
Benzene	ug/L	50	49.6	99	69-137	
Bromodichloromethane	ug/L	50	56.0	112	70-130	
Bromoform	ug/L	50	58.7	117	64-133	
Bromomethane	ug/L	50	36.9	74	29-123	

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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: TD P3 CR
Pace Project No.: 40177472

LABORATORY CONTROL SAMPLE: 1769683

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	58.3	117	73-142	
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroethane	ug/L	50	43.9	88	59-133	
Chloroform	ug/L	50	50.1	100	80-129	
Chloromethane	ug/L	50	34.3	69	27-125	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-134	
cis-1,3-Dichloropropene	ug/L	50	52.8	106	70-130	
Dibromochloromethane	ug/L	50	55.8	112	70-130	
Dichlorodifluoromethane	ug/L	50	43.6	87	12-127	
Ethylbenzene	ug/L	50	57.6	115	86-127	
Isopropylbenzene (Cumene)	ug/L	50	58.9	118	70-130	
m&p-Xylene	ug/L	100	113	113	70-131	
Methyl-tert-butyl ether	ug/L	50	47.4	95	65-136	
Methylene Chloride	ug/L	50	46.0	92	72-133	
o-Xylene	ug/L	50	56.8	114	70-130	
Styrene	ug/L	50	57.7	115	70-130	
Tetrachloroethene	ug/L	50	57.1	114	70-130	
Toluene	ug/L	50	54.0	108	84-124	
trans-1,2-Dichloroethene	ug/L	50	50.5	101	70-133	
trans-1,3-Dichloropropene	ug/L	50	50.1	100	67-130	
Trichloroethene	ug/L	50	56.4	113	70-130	
Trichlorofluoromethane	ug/L	50	57.5	115	69-147	
Vinyl chloride	ug/L	50	43.9	88	48-134	
4-Bromofluorobenzene (S)	%			110	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770706 1770707

Parameter	Units	40177464003 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	<0.24	50	50	55.4	57.2	111	114	70-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	48.7	50.9	97	102	67-133	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.0	50.9	100	102	70-130	2	20	
1,1-Dichloroethane	ug/L	1.2	50	50	50.2	51.9	98	101	70-139	3	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	49.8	52.1	100	104	72-137	5	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	52.2	53.5	104	107	68-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50.7	51.7	101	103	60-130	2	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.9	51.6	102	103	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.9	52.0	100	104	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	52.3	52.9	105	106	71-137	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	48.8	49.6	98	99	78-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.6	51.8	99	104	70-130	4	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.4	51.8	99	104	70-130	5	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: TD P3 CR
Pace Project No.: 40177472

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1770706 1770707

Parameter	Units	40177464003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	48.0	49.5	96	99	66-143	3	20	
Bromodichloromethane	ug/L	<0.36	50	50	55.2	55.7	110	111	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	57.1	58.2	114	116	64-134	2	20	
Bromomethane	ug/L	<0.97	50	50	42.5	44.8	85	90	29-136	5	25	
Carbon tetrachloride	ug/L	<0.17	50	50	55.4	56.8	111	114	73-142	3	20	
Chlorobenzene	ug/L	<0.71	50	50	51.0	52.5	102	105	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	43.3	44.1	87	88	58-138	2	20	
Chloroform	ug/L	<1.3	50	50	47.6	48.9	95	98	80-131	3	20	
Chloromethane	ug/L	<2.2	50	50	36.4	37.2	73	74	24-125	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	48.2	49.9	96	100	68-137	4	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.5	52.9	103	106	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	53.3	55.1	107	110	70-131	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	42.9	43.6	86	87	10-127	2	20	
Ethylbenzene	ug/L	<0.22	50	50	56.2	57.3	112	115	81-136	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	56.9	58.5	114	117	70-132	3	20	
m&p-Xylene	ug/L	<0.47	100	100	111	114	111	114	70-135	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.3	47.6	93	95	58-142	3	23	
Methylene Chloride	ug/L	<0.58	50	50	45.2	45.6	90	91	69-137	1	20	
o-Xylene	ug/L	<0.26	50	50	55.7	57.2	111	114	70-132	3	20	
Styrene	ug/L	<0.47	50	50	55.8	57.4	112	115	70-130	3	20	
Tetrachloroethene	ug/L	0.44J	50	50	56.0	57.5	111	114	70-132	3	20	
Toluene	ug/L	<0.17	50	50	52.5	53.7	105	107	81-130	2	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	49.1	50.9	98	102	70-136	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	49.0	50.1	98	100	67-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	55.7	57.5	111	115	70-131	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	56.1	57.2	112	114	66-150	2	20	
Vinyl chloride	ug/L	<0.17	50	50	44.7	45.6	89	91	46-134	2	20	
4-Bromofluorobenzene (S)	%						111	110	70-130			
Dibromofluoromethane (S)	%						97	99	70-130			
Toluene-d8 (S)	%						102	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

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

QUALIFIERS

Project: TD P3 CR
Pace Project No.: 40177472

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TD P3 CR
Pace Project No.: 40177472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40177472001	**CR-1**	EPA 8260	302979		
40177472002	**CR-2**	EPA 8260	302979		
40177472003	**CR-3**	EPA 8260	302979		
40177472004	**CR-4**	EPA 8260	302979		
40177472005	**CR-5**	EPA 8260	302979		
40177472006	**TRIP BLANK**	EPA 8260	302979		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40177472

Page:	of	

Section A Required Client Information:

Company:	Environmental Audits Inc.
Address:	11327 W Lincoln Avenue
	West Allis Wi 53051
Email To:	john@environmentalaudits.net
Phone: 414-226-5563	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	jrruetz@yahoo.com;
Copy To:	eeriii@wi.rr.com; john@environmentalaudits.net
	steph@environmentalaudits.net
Purchase Order No.:	Verbal
Project Name:	TD P3 CR
Project Number:	

Section C Invoice Information:

Attention:	John Ruetz
Company Name:	Environmental Audits Inc.
Address:	11327 W Lincoln Avenue
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: WI

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED Composite Start Date	COLLECTED Composite Start Time	COLLECTED Composite End/Grab Date	COLLECTED Composite End/Grab Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				DATE	TIME	DATE	TIME											Y/N	N		
1	001 CR-1	GW	G	10/9/18					3				x						3		
2	002 CR-2	GW	G	10/9/18					3				x						3		
3	003 CR-3	GW	G	10/9/18					3				x						3		
4	004 CR-4	GW	G	10/9/18					3				x						3		
5	005 CR-5	GW	G	10/9/18					3				x						3		
6	006 Trip Blanks (1)																				
7																					
8																					
9																					
10																					
11	(1) Trip Blanks received w/sheet - added to COC by MB 10/11/18																				
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Stephanie Wagner	10/9/18		Mary Fannin	10/10/18	1425				
	Mary Fannin CGLogistics	10/10/18	1440							
		10/11/18	1030		10/11/18	1030	ROI	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Stephanie Wagner

SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 10/9/18

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

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

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

Sample Preservation Receipt Form

Client Name: Environmental Audits Project # 40177472

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3									/						2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		2															2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : ☒Yes □No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Environmental Audits

Project #: **WO# : 40177472**

40177472

Courier: ☒ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ 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 SR - N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr:

Temp Blank Present: ☐ yes ☐ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 10/11/18
Initials: SSH

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☒No ☐N/A	2. No collect times SSH 10/11/18
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3. Typed, No time SSH 10/11/18
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7.
Sufficient Volume:		8.
For Analysis: ☒Yes ☐No MS/MSD:	☐Yes ☒No ☐N/A	
Correct Containers Used:	☒Yes ☐No	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. all ID's start w/ "TDP3..." SSH 10/11/18
-Includes date/time/ID/Analysis Matrix:		
Trip Blank Present:	☒Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☒Yes ☐No ☐N/A	Trip Blank added to COC SSH 10/11/18
Pace Trip Blank Lot # (if purchased): 407		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: Rmr for DM **Date:** 10/11/18

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

April 30, 2019

John Ruetz
Environmental Audits Inc
11327 W Lincoln Ave
West Allis, WI 53227

RE: Project: TD P3 CR
Pace Project No.: 40186411

Dear John Ruetz:
Enclosed are the analytical results for sample(s) received by the laboratory on April 24, 2019. 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: Ed Raymond, Environmental Audits, Inc
Steve Tiber, Environmental Audits Inc.
Stephanie Wagner, Environmental Audits, Inc.

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

CERTIFICATIONS

Project: TD P3 CR
Pace Project No.: 40186411

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

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

SAMPLE SUMMARY

Project: TD P3 CR
Pace Project No.: 40186411

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40186411001	**CR-1**	Water	04/23/19 00:00	04/24/19 15:00
40186411002	**CR-2**	Water	04/23/19 00:00	04/24/19 15:00
40186411003	**CR-3**	Water	04/23/19 00:00	04/24/19 15:00
40186411004	**CR-4**	Water	04/23/19 00:00	04/24/19 15:00
40186411005	**CR-5**	Water	04/23/19 00:00	04/24/19 15:00
40186411006	**TB**	Water	04/23/19 00:00	04/24/19 15:00

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Green Bay, WI 54302
(920)469-2436

SAMPLE ANALYTE COUNT

Project: TD P3 CR
Pace Project No.: 40186411

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40186411001	**CR-1**	EPA 8260	HNW	64
40186411002	**CR-2**	EPA 8260	HNW	64
40186411003	**CR-3**	EPA 8260	HNW	64
40186411004	**CR-4**	EPA 8260	HNW	64
40186411005	**CR-5**	EPA 8260	HNW	64
40186411006	**TB**	EPA 8260	HNW	64

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-1 **Lab ID: 40186411001** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/29/19 15:55	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/29/19 15:55	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 15:55	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/29/19 15:55	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/29/19 15:55	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/29/19 15:55	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/29/19 15:55	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/29/19 15:55	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/29/19 15:55	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/29/19 15:55	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/29/19 15:55	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/29/19 15:55	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/29/19 15:55	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 15:55	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 15:55	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 15:55	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/29/19 15:55	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/29/19 15:55	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/29/19 15:55	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/29/19 15:55	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/29/19 15:55	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/29/19 15:55	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/29/19 15:55	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/29/19 15:55	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/29/19 15:55	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/29/19 15:55	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/29/19 15:55	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/29/19 15:55	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/29/19 15:55	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/29/19 15:55	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 15:55	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/29/19 15:55	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/29/19 15:55	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/29/19 15:55	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/29/19 15:55	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/29/19 15:55	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/29/19 15:55	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/29/19 15:55	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/29/19 15:55	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/29/19 15:55	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/29/19 15:55	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/29/19 15:55	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/29/19 15:55	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/29/19 15:55	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/29/19 15:55	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/29/19 15:55	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-1 **Lab ID: 40186411001** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/29/19 15:55	108-88-3	
Trichloroethene	**0.48J**	ug/L	1.0	0.26	1		04/29/19 15:55	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/29/19 15:55	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/29/19 15:55	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/29/19 15:55	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/29/19 15:55	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/29/19 15:55	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 15:55	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/29/19 15:55	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/29/19 15:55	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/29/19 15:55	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/29/19 15:55	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/29/19 15:55	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/29/19 15:55	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/29/19 15:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/29/19 15:55	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		04/29/19 15:55	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/29/19 15:55	2037-26-5	

Sample: CR-2 **Lab ID: 40186411002** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/29/19 16:16	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/29/19 16:16	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 16:16	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/29/19 16:16	79-00-5	
1,1-Dichloroethane	**3.9**	ug/L	1.0	0.27	1		04/29/19 16:16	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/29/19 16:16	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/29/19 16:16	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/29/19 16:16	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/29/19 16:16	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/29/19 16:16	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/29/19 16:16	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/29/19 16:16	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/29/19 16:16	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 16:16	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 16:16	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 16:16	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/29/19 16:16	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/29/19 16:16	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/29/19 16:16	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-2 **Lab ID: 40186411002** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/29/19 16:16	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/29/19 16:16	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/29/19 16:16	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/29/19 16:16	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/29/19 16:16	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/29/19 16:16	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/29/19 16:16	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/29/19 16:16	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/29/19 16:16	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/29/19 16:16	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/29/19 16:16	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 16:16	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/29/19 16:16	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/29/19 16:16	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/29/19 16:16	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/29/19 16:16	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/29/19 16:16	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/29/19 16:16	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/29/19 16:16	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/29/19 16:16	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/29/19 16:16	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/29/19 16:16	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/29/19 16:16	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/29/19 16:16	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/29/19 16:16	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/29/19 16:16	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/29/19 16:16	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/29/19 16:16	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/29/19 16:16	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/29/19 16:16	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/29/19 16:16	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/29/19 16:16	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/29/19 16:16	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/29/19 16:16	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 16:16	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/29/19 16:16	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/29/19 16:16	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/29/19 16:16	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/29/19 16:16	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/29/19 16:16	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/29/19 16:16	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/29/19 16:16	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/29/19 16:16	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/29/19 16:16	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		04/29/19 16:16	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-3 **Lab ID: 40186411003** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<269**	ug/L	1000	269	1000		04/29/19 13:03	630-20-6	
1,1,1-Trichloroethane	**16000**	ug/L	1000	245	1000		04/29/19 13:03	71-55-6	
1,1,2,2-Tetrachloroethane	**<275**	ug/L	1000	275	1000		04/29/19 13:03	79-34-5	
1,1,2-Trichloroethane	**<552**	ug/L	5000	552	1000		04/29/19 13:03	79-00-5	
1,1-Dichloroethane	**55800**	ug/L	1000	273	1000		04/29/19 13:03	75-34-3	
1,1-Dichloroethene	**2710**	ug/L	1000	245	1000		04/29/19 13:03	75-35-4	
1,1-Dichloropropene	**<540**	ug/L	1800	540	1000		04/29/19 13:03	563-58-6	
1,2,3-Trichlorobenzene	**<626**	ug/L	5000	626	1000		04/29/19 13:03	87-61-6	
1,2,3-Trichloropropane	**<591**	ug/L	5000	591	1000		04/29/19 13:03	96-18-4	
1,2,4-Trichlorobenzene	**<951**	ug/L	5000	951	1000		04/29/19 13:03	120-82-1	
1,2,4-Trimethylbenzene	**<841**	ug/L	2800	841	1000		04/29/19 13:03	95-63-6	
1,2-Dibromo-3-chloropropane	**<1760**	ug/L	5880	1760	1000		04/29/19 13:03	96-12-8	
1,2-Dibromoethane (EDB)	**<829**	ug/L	2760	829	1000		04/29/19 13:03	106-93-4	
1,2-Dichlorobenzene	**<705**	ug/L	2350	705	1000		04/29/19 13:03	95-50-1	
1,2-Dichloroethane	**<280**	ug/L	1000	280	1000		04/29/19 13:03	107-06-2	
1,2-Dichloropropane	**<283**	ug/L	1000	283	1000		04/29/19 13:03	78-87-5	
1,3,5-Trimethylbenzene	**<873**	ug/L	2910	873	1000		04/29/19 13:03	108-67-8	
1,3-Dichlorobenzene	**<628**	ug/L	2090	628	1000		04/29/19 13:03	541-73-1	
1,3-Dichloropropane	**<826**	ug/L	2750	826	1000		04/29/19 13:03	142-28-9	
1,4-Dichlorobenzene	**<944**	ug/L	3150	944	1000		04/29/19 13:03	106-46-7	
2,2-Dichloropropane	**<2270**	ug/L	7550	2270	1000		04/29/19 13:03	594-20-7	
2-Chlorotoluene	**<926**	ug/L	5000	926	1000		04/29/19 13:03	95-49-8	
4-Chlorotoluene	**<756**	ug/L	2520	756	1000		04/29/19 13:03	106-43-4	
Benzene	**<246**	ug/L	1000	246	1000		04/29/19 13:03	71-43-2	
Bromobenzene	**<241**	ug/L	1000	241	1000		04/29/19 13:03	108-86-1	
Bromochloromethane	**<362**	ug/L	5000	362	1000		04/29/19 13:03	74-97-5	
Bromodichloromethane	**<364**	ug/L	1210	364	1000		04/29/19 13:03	75-27-4	
Bromoform	**<3970**	ug/L	13200	3970	1000		04/29/19 13:03	75-25-2	
Bromomethane	**<971**	ug/L	5000	971	1000		04/29/19 13:03	74-83-9	
Carbon tetrachloride	**<166**	ug/L	1000	166	1000		04/29/19 13:03	56-23-5	
Chlorobenzene	**<711**	ug/L	2370	711	1000		04/29/19 13:03	108-90-7	
Chloroethane	**55400**	ug/L	5000	1340	1000		04/29/19 13:03	75-00-3	
Chloroform	**<1270**	ug/L	5000	1270	1000		04/29/19 13:03	67-66-3	
Chloromethane	**<2190**	ug/L	7300	2190	1000		04/29/19 13:03	74-87-3	
Dibromochloromethane	**<2600**	ug/L	8670	2600	1000		04/29/19 13:03	124-48-1	
Dibromomethane	**<937**	ug/L	3120	937	1000		04/29/19 13:03	74-95-3	
Dichlorodifluoromethane	**<500**	ug/L	5000	500	1000		04/29/19 13:03	75-71-8	
Diisopropyl ether	**<1890**	ug/L	6290	1890	1000		04/29/19 13:03	108-20-3	
Ethylbenzene	**<218**	ug/L	1000	218	1000		04/29/19 13:03	100-41-4	
Hexachloro-1,3-butadiene	**<1180**	ug/L	5000	1180	1000		04/29/19 13:03	87-68-3	
Isopropylbenzene (Cumene)	**<393**	ug/L	5000	393	1000		04/29/19 13:03	98-82-8	
Methyl-tert-butyl ether	**<1250**	ug/L	4150	1250	1000		04/29/19 13:03	1634-04-4	
Methylene Chloride	**<581**	ug/L	5000	581	1000		04/29/19 13:03	75-09-2	
Naphthalene	**<1180**	ug/L	5000	1180	1000		04/29/19 13:03	91-20-3	
Styrene	**<465**	ug/L	1550	465	1000		04/29/19 13:03	100-42-5	
Tetrachloroethene	**<326**	ug/L	1090	326	1000		04/29/19 13:03	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-3 **Lab ID: 40186411003** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<172**	ug/L	5000	172	1000		04/29/19 13:03	108-88-3	
Trichloroethene	**<255**	ug/L	1000	255	1000		04/29/19 13:03	79-01-6	
Trichlorofluoromethane	**<215**	ug/L	1000	215	1000		04/29/19 13:03	75-69-4	
Vinyl chloride	**3970**	ug/L	1000	175	1000		04/29/19 13:03	75-01-4	
cis-1,2-Dichloroethene	**<271**	ug/L	1000	271	1000		04/29/19 13:03	156-59-2	
cis-1,3-Dichloropropene	**<3630**	ug/L	12100	3630	1000		04/29/19 13:03	10061-01-5	
m&p-Xylene	**<465**	ug/L	2000	465	1000		04/29/19 13:03	179601-23-1	
n-Butylbenzene	**<708**	ug/L	2360	708	1000		04/29/19 13:03	104-51-8	
n-Propylbenzene	**<811**	ug/L	5000	811	1000		04/29/19 13:03	103-65-1	
o-Xylene	**<262**	ug/L	1000	262	1000		04/29/19 13:03	95-47-6	
p-Isopropyltoluene	**<800**	ug/L	2670	800	1000		04/29/19 13:03	99-87-6	
sec-Butylbenzene	**<849**	ug/L	5000	849	1000		04/29/19 13:03	135-98-8	
tert-Butylbenzene	**<304**	ug/L	1010	304	1000		04/29/19 13:03	98-06-6	
trans-1,2-Dichloroethene	**<1090**	ug/L	3640	1090	1000		04/29/19 13:03	156-60-5	
trans-1,3-Dichloropropene	**<4370**	ug/L	14600	4370	1000		04/29/19 13:03	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1000		04/29/19 13:03	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1000		04/29/19 13:03	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1000		04/29/19 13:03	2037-26-5	

Sample: CR-4 **Lab ID: 40186411004** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/29/19 16:38	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/29/19 16:38	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 16:38	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/29/19 16:38	79-00-5	
1,1-Dichloroethane	**0.95J**	ug/L	1.0	0.27	1		04/29/19 16:38	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/29/19 16:38	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/29/19 16:38	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/29/19 16:38	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/29/19 16:38	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/29/19 16:38	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/29/19 16:38	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/29/19 16:38	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/29/19 16:38	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 16:38	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 16:38	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/29/19 16:38	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/29/19 16:38	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/29/19 16:38	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/29/19 16:38	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-4 **Lab ID: 40186411004** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/29/19 16:38	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/29/19 16:38	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/29/19 16:38	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/29/19 16:38	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/29/19 16:38	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/29/19 16:38	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/29/19 16:38	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/29/19 16:38	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/29/19 16:38	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/29/19 16:38	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/29/19 16:38	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 16:38	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/29/19 16:38	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/29/19 16:38	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/29/19 16:38	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/29/19 16:38	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/29/19 16:38	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/29/19 16:38	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/29/19 16:38	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/29/19 16:38	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/29/19 16:38	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/29/19 16:38	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/29/19 16:38	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/29/19 16:38	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/29/19 16:38	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/29/19 16:38	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/29/19 16:38	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/29/19 16:38	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/29/19 16:38	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/29/19 16:38	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/29/19 16:38	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/29/19 16:38	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/29/19 16:38	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/29/19 16:38	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/29/19 16:38	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/29/19 16:38	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/29/19 16:38	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/29/19 16:38	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/29/19 16:38	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/29/19 16:38	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/29/19 16:38	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/29/19 16:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		04/29/19 16:38	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		04/29/19 16:38	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/29/19 16:38	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-5 **Lab ID: 40186411005** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 02:09	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 02:09	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 02:09	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 02:09	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 02:09	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 02:09	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/30/19 02:09	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/30/19 02:09	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/30/19 02:09	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/30/19 02:09	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 02:09	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 02:09	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 02:09	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 02:09	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 02:09	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 02:09	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 02:09	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 02:09	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/30/19 02:09	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 02:09	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/30/19 02:09	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/30/19 02:09	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/30/19 02:09	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 02:09	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 02:09	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/30/19 02:09	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 02:09	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 02:09	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 02:09	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 02:09	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 02:09	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 02:09	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 02:09	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/30/19 02:09	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 02:09	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 02:09	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 02:09	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/30/19 02:09	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 02:09	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 02:09	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/30/19 02:09	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 02:09	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 02:09	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 02:09	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 02:09	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 02:09	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

Project: TD P3 CR
Pace Project No.: 40186411

Sample: CR-5 **Lab ID: 40186411005** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 02:09	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 02:09	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 02:09	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 02:09	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 02:09	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 02:09	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/30/19 02:09	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 02:09	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 02:09	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 02:09	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 02:09	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/30/19 02:09	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/30/19 02:09	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 02:09	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 02:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/30/19 02:09	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		04/30/19 02:09	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		04/30/19 02:09	2037-26-5	

Sample: TB **Lab ID: 40186411006** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 03:13	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		04/30/19 03:13	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 03:13	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		04/30/19 03:13	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		04/30/19 03:13	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 03:13	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		04/30/19 03:13	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		04/30/19 03:13	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		04/30/19 03:13	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		04/30/19 03:13	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		04/30/19 03:13	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		04/30/19 03:13	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		04/30/19 03:13	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 03:13	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 03:13	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		04/30/19 03:13	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		04/30/19 03:13	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		04/30/19 03:13	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		04/30/19 03:13	142-28-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40186411

Sample: TB **Lab ID: 40186411006** Collected: 04/23/19 00:00 Received: 04/24/19 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		04/30/19 03:13	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		04/30/19 03:13	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		04/30/19 03:13	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		04/30/19 03:13	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		04/30/19 03:13	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		04/30/19 03:13	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		04/30/19 03:13	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		04/30/19 03:13	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		04/30/19 03:13	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		04/30/19 03:13	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 03:13	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 03:13	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		04/30/19 03:13	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		04/30/19 03:13	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		04/30/19 03:13	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		04/30/19 03:13	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		04/30/19 03:13	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		04/30/19 03:13	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		04/30/19 03:13	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		04/30/19 03:13	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 03:13	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		04/30/19 03:13	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		04/30/19 03:13	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		04/30/19 03:13	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		04/30/19 03:13	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		04/30/19 03:13	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		04/30/19 03:13	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		04/30/19 03:13	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 03:13	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		04/30/19 03:13	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		04/30/19 03:13	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		04/30/19 03:13	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		04/30/19 03:13	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		04/30/19 03:13	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		04/30/19 03:13	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		04/30/19 03:13	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		04/30/19 03:13	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		04/30/19 03:13	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		04/30/19 03:13	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		04/30/19 03:13	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		04/30/19 03:13	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		04/30/19 03:13	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		04/30/19 03:13	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		04/30/19 03:13	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		04/30/19 03:13	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: TD P3 CR
Pace Project No.: 40186411

QC Batch: 319582 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40186411001, 40186411002, 40186411003, 40186411004, 40186411005, 40186411006

METHOD BLANK: 1856916 Matrix: Water
Associated Lab Samples: 40186411001, 40186411002, 40186411003, 40186411004, 40186411005, 40186411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/29/19 08:25	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/29/19 08:25	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/29/19 08:25	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/29/19 08:25	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/29/19 08:25	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/29/19 08:25	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/29/19 08:25	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	04/29/19 08:25	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/29/19 08:25	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/29/19 08:25	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/29/19 08:25	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/29/19 08:25	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/29/19 08:25	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/29/19 08:25	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/29/19 08:25	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/29/19 08:25	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/29/19 08:25	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/29/19 08:25	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/29/19 08:25	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/29/19 08:25	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/29/19 08:25	
2-Chlorotoluene	ug/L	<0.93	5.0	04/29/19 08:25	
4-Chlorotoluene	ug/L	<0.76	2.5	04/29/19 08:25	
Benzene	ug/L	<0.25	1.0	04/29/19 08:25	
Bromobenzene	ug/L	<0.24	1.0	04/29/19 08:25	
Bromochloromethane	ug/L	<0.36	5.0	04/29/19 08:25	
Bromodichloromethane	ug/L	<0.36	1.2	04/29/19 08:25	
Bromoform	ug/L	<4.0	13.2	04/29/19 08:25	
Bromomethane	ug/L	<0.97	5.0	04/29/19 08:25	
Carbon tetrachloride	ug/L	<0.17	1.0	04/29/19 08:25	
Chlorobenzene	ug/L	<0.71	2.4	04/29/19 08:25	
Chloroethane	ug/L	<1.3	5.0	04/29/19 08:25	
Chloroform	ug/L	<1.3	5.0	04/29/19 08:25	
Chloromethane	ug/L	<2.2	7.3	04/29/19 08:25	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/29/19 08:25	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/29/19 08:25	
Dibromochloromethane	ug/L	<2.6	8.7	04/29/19 08:25	
Dibromomethane	ug/L	<0.94	3.1	04/29/19 08:25	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/29/19 08:25	
Diisopropyl ether	ug/L	<1.9	6.3	04/29/19 08:25	
Ethylbenzene	ug/L	<0.22	1.0	04/29/19 08:25	

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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: TD P3 CR
Pace Project No.: 40186411

METHOD BLANK: 1856916 Matrix: Water
Associated Lab Samples: 40186411001, 40186411002, 40186411003, 40186411004, 40186411005, 40186411006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	04/29/19 08:25	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	04/29/19 08:25	
m&p-Xylene	ug/L	<0.47	2.0	04/29/19 08:25	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/29/19 08:25	
Methylene Chloride	ug/L	<0.58	5.0	04/29/19 08:25	
n-Butylbenzene	ug/L	<0.71	2.4	04/29/19 08:25	
n-Propylbenzene	ug/L	<0.81	5.0	04/29/19 08:25	
Naphthalene	ug/L	<1.2	5.0	04/29/19 08:25	
o-Xylene	ug/L	<0.26	1.0	04/29/19 08:25	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/29/19 08:25	
sec-Butylbenzene	ug/L	<0.85	5.0	04/29/19 08:25	
Styrene	ug/L	<0.47	1.6	04/29/19 08:25	
tert-Butylbenzene	ug/L	<0.30	1.0	04/29/19 08:25	
Tetrachloroethene	ug/L	<0.33	1.1	04/29/19 08:25	
Toluene	ug/L	<0.17	5.0	04/29/19 08:25	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	04/29/19 08:25	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/29/19 08:25	
Trichloroethene	ug/L	<0.26	1.0	04/29/19 08:25	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/29/19 08:25	
Vinyl chloride	ug/L	<0.17	1.0	04/29/19 08:25	
4-Bromofluorobenzene (S)	%	92	70-130	04/29/19 08:25	
Dibromofluoromethane (S)	%	98	70-130	04/29/19 08:25	
Toluene-d8 (S)	%	98	70-130	04/29/19 08:25	

LABORATORY CONTROL SAMPLE: 1856917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.2	108	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.9	104	70-130	
1,1,2-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1-Dichloroethane	ug/L	50	53.0	106	73-150	
1,1-Dichloroethene	ug/L	50	52.0	104	73-138	
1,2,4-Trichlorobenzene	ug/L	50	54.1	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	51.4	103	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	53.2	106	70-130	
1,2-Dichlorobenzene	ug/L	50	54.0	108	70-130	
1,2-Dichloroethane	ug/L	50	52.1	104	75-140	
1,2-Dichloropropane	ug/L	50	51.6	103	73-135	
1,3-Dichlorobenzene	ug/L	50	52.0	104	70-130	
1,4-Dichlorobenzene	ug/L	50	52.9	106	70-130	
Benzene	ug/L	50	52.9	106	70-130	
Bromodichloromethane	ug/L	50	53.6	107	70-130	
Bromoform	ug/L	50	50.4	101	68-129	
Bromomethane	ug/L	50	31.1	62	18-159	

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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: TD P3 CR
Pace Project No.: 40186411

LABORATORY CONTROL SAMPLE: 1856917

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.5	107	70-130	
Chlorobenzene	ug/L	50	52.9	106	70-130	
Chloroethane	ug/L	50	47.6	95	53-147	
Chloroform	ug/L	50	50.7	101	74-136	
Chloromethane	ug/L	50	41.9	84	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.1	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	70-130	
Dibromochloromethane	ug/L	50	53.7	107	70-130	
Dichlorodifluoromethane	ug/L	50	45.3	91	10-130	
Ethylbenzene	ug/L	50	55.7	111	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.6	105	70-130	
m&p-Xylene	ug/L	100	112	112	70-130	
Methyl-tert-butyl ether	ug/L	50	47.9	96	54-137	
Methylene Chloride	ug/L	50	52.3	105	73-138	
o-Xylene	ug/L	50	55.9	112	70-130	
Styrene	ug/L	50	51.9	104	70-130	
Tetrachloroethene	ug/L	50	53.4	107	70-130	
Toluene	ug/L	50	52.5	105	80-126	
trans-1,2-Dichloroethene	ug/L	50	54.1	108	73-145	
trans-1,3-Dichloropropene	ug/L	50	47.9	96	70-130	
Trichloroethene	ug/L	50	55.1	110	70-130	
Trichlorofluoromethane	ug/L	50	52.4	105	76-147	
Vinyl chloride	ug/L	50	42.7	85	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1857010 1857011

Parameter	Units	40186483002 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	<0.24	50	50	53.7	53.0	107	106	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.9	49.4	100	99	70-130	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	52.5	50.0	105	100	70-137	5	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	52.9	33.8	106	68	73-153	44	20	M1,R1
1,1-Dichloroethene	ug/L	<0.24	50	50	51.7	40.5	103	81	73-138	24	20	R1
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.2	51.0	106	102	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	51.0	50.4	102	101	58-129	1	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	53.3	50.3	107	101	70-130	6	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.8	53.0	108	106	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	51.7	53.8	103	108	75-140	4	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	51.1	48.3	102	97	71-138	6	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.3	52.1	105	104	70-130	0	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.1	51.2	106	102	70-130	4	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: TD P3 CR
Pace Project No.: 40186411

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1857010 1857011

Parameter	Units	40186483002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	52.3	51.2	105	102	70-130	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	54.5	52.2	109	104	70-130	4	20	
Bromoform	ug/L	<4.0	50	50	50.1	46.6	100	93	68-129	7	20	
Bromomethane	ug/L	<0.97	50	50	31.8	32.1	64	64	15-170	1	20	
Carbon tetrachloride	ug/L	<0.17	50	50	53.6	53.1	107	106	70-130	1	20	
Chlorobenzene	ug/L	<0.71	50	50	54.4	51.9	109	104	70-130	5	20	
Chloroethane	ug/L	<1.3	50	50	47.0	39.1	94	78	51-148	18	20	
Chloroform	ug/L	<1.3	50	50	50.4	50.7	101	101	74-136	1	20	
Chloromethane	ug/L	<2.2	50	50	41.3	41.2	83	82	23-115	0	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	49.9	33.2	100	66	70-131	40	20	M1,R1
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.9	46.9	98	94	70-130	4	20	
Dibromochloromethane	ug/L	<2.6	50	50	54.3	50.5	109	101	70-130	7	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	43.4	44.4	87	89	10-132	2	20	
Ethylbenzene	ug/L	<0.22	50	50	56.4	52.3	113	105	80-125	7	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	54.1	49.6	108	99	70-130	9	20	
m&p-Xylene	ug/L	<0.47	100	100	115	108	115	108	70-130	6	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.2	41.0	94	82	51-145	14	20	
Methylene Chloride	ug/L	<0.58	50	50	52.6	38.1	105	76	73-140	32	20	R1
o-Xylene	ug/L	<0.26	50	50	56.7	53.4	113	107	70-130	6	20	
Styrene	ug/L	<0.47	50	50	53.2	51.0	106	102	70-130	4	20	
Tetrachloroethene	ug/L	<0.33	50	50	55.1	51.7	110	103	70-130	6	20	
Toluene	ug/L	<0.17	50	50	54.0	50.0	108	100	80-131	8	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	52.9	36.6	106	73	73-148	37	20	R1
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	49.8	46.3	100	93	70-130	7	20	
Trichloroethene	ug/L	<0.26	50	50	54.4	51.5	109	103	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.8	49.7	106	99	74-147	6	20	
Vinyl chloride	ug/L	<0.17	50	50	44.3	46.4	89	93	41-129	5	20	
4-Bromofluorobenzene (S)	%						101	98	70-130			
Dibromofluoromethane (S)	%						98	104	70-130			
Toluene-d8 (S)	%						98	96	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: TD P3 CR
Pace Project No.: 40186411

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TD P3 CR
Pace Project No.: 40186411

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40186411001	**CR-1**	EPA 8260	319582		
40186411002	**CR-2**	EPA 8260	319582		
40186411003	**CR-3**	EPA 8260	319582		
40186411004	**CR-4**	EPA 8260	319582		
40186411005	**CR-5**	EPA 8260	319582		
40186411006	**TB**	EPA 8260	319582		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40186411

JR

Page: 1 of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Environmental Audits Inc.	Report To:	jrruetz@yahoo.com;	Attention:	John Ruetz
Address:	11327 W Lincoln Avenue	Copy To:	eeriii@wi.rr.com; john@environmentalaudits.net	Company Name:	Environmental Audits Inc.
	West Allis Wi 53051		steph@environmentalaudits.net	Address:	11327 W Lincoln Avenue
Email To:	john@environmentalaudits.net	Purchase Order No.:	Verbal	Pace Quote Reference:	
Phone:	414-226-5563 Fax:	Project Name:	TD P3 CR	Pace Project Manager:	
Requested Due Date/TAT:		Project Number:		Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER

☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: WI

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

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

ITEM #	SAMPLE ID		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	CR-1	001	GW	G	4/23/19					3				x						3		
2	CR-2	003	GW	G	4/23/19					3				x						3		
3	CR-3	003	GW	G	4/23/19					3				x						3		
4	CR-4	004	GW	G	4/23/19					3				x						3		
5	CR-5	005	GW	G	4/23/19					3				x						3		
6	TB	006																				received placed on COC by lab 4/24/19
7																						
8																						
9																						
10																						
11																						
12																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Stephanie Wagner	4/23/19		Mary Fanning	4/24/19	10:25				
	Mary Fanning	4/24/19	1240	[signature]	4/24/19	1240				
	[signature]	4/24/19	1500	[signature]	4/24/19	1500	0.7	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Stephanie Wagner

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 4/23/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 54430

Sample Preservation Receipt Form

Client Name: Env. No audits Project # 40186411

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A Initial when completed: Date/ Time:

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted):

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		2															2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm) : □Yes ☒No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

2005

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40186411

40186411

Client Name: Enviro audits

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ 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 SR - NA **Type of Ice:** Wet Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: NOI /Corr: _____

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 4/24/19
Initials: _____

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	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☐Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☐Yes ☑No ☐N/A	12. 10 time, 1 label per sample point only placed by bag grouping 4/24/19
Trip Blank Present:	☑Yes ☐No ☐N/A	13.
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 416		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: AL for DM **Date:** 4/24/19

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

September 12, 2018

John Ruetz
Environmental Audits Inc
11327 W Lincoln Ave
West Allis, WI 53227

RE: Project: TD P3 CR
Pace Project No.: 40175286

Dear John Ruetz:
Enclosed are the analytical results for sample(s) received by the laboratory on September 06, 2018. 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: Ed Raymond, Environmental Audits, Inc
Stephanie Wagner, Environmental Audits, Inc.

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

CERTIFICATIONS

Project: TD P3 CR
Pace Project No.: 40175286

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: TD P3 CR
Pace Project No.: 40175286

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40175286001	**CR-1**	Water	09/04/18 00:00	09/06/18 14:54
40175286002	**CR-2**	Water	09/04/18 00:00	09/06/18 14:54
40175286003	**CR-3**	Water	09/04/18 00:00	09/06/18 14:54
40175286004	**CR-4**	Water	09/04/18 00:00	09/06/18 14:54
40175286005	**CR-5**	Water	09/04/18 00:00	09/06/18 14:54
40175286006	**TB**	Water	09/04/18 00:00	09/06/18 14:54

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

SAMPLE ANALYTE COUNT

Project: TD P3 CR
Pace Project No.: 40175286

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40175286001	**CR-1**	EPA 8260	HNW	64
40175286002	**CR-2**	EPA 8260	HNW	64
40175286003	**CR-3**	EPA 8260	HNW	64
40175286004	**CR-4**	EPA 8260	HNW	64
40175286005	**CR-5**	EPA 8260	HNW	64
40175286006	**TB**	EPA 8260	HNW	64

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: CR-1 **Lab ID: 40175286001** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 19:56	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/10/18 19:56	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 19:56	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/10/18 19:56	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 19:56	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 19:56	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/10/18 19:56	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/10/18 19:56	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/10/18 19:56	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/10/18 19:56	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/10/18 19:56	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/10/18 19:56	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/10/18 19:56	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 19:56	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 19:56	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 19:56	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/10/18 19:56	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/10/18 19:56	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/10/18 19:56	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/10/18 19:56	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/10/18 19:56	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/10/18 19:56	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/10/18 19:56	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/10/18 19:56	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 19:56	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/10/18 19:56	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/10/18 19:56	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/10/18 19:56	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/10/18 19:56	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 19:56	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 19:56	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/10/18 19:56	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/10/18 19:56	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/10/18 19:56	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/10/18 19:56	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/10/18 19:56	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/10/18 19:56	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/10/18 19:56	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/10/18 19:56	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 19:56	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/10/18 19:56	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/10/18 19:56	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/10/18 19:56	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 19:56	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/10/18 19:56	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/10/18 19:56	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: CR-1 **Lab ID: 40175286001** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/10/18 19:56	108-88-3	
Trichloroethene	**0.31J**	ug/L	1.0	0.26	1		09/10/18 19:56	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/10/18 19:56	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 19:56	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/10/18 19:56	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/10/18 19:56	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/10/18 19:56	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 19:56	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/10/18 19:56	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 19:56	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/10/18 19:56	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/10/18 19:56	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/10/18 19:56	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/10/18 19:56	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/10/18 19:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/10/18 19:56	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		09/10/18 19:56	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/10/18 19:56	2037-26-5	

Sample: CR-2 **Lab ID: 40175286002** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 20:17	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/10/18 20:17	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 20:17	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/10/18 20:17	79-00-5	
1,1-Dichloroethane	**3.6**	ug/L	1.0	0.27	1		09/10/18 20:17	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 20:17	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/10/18 20:17	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/10/18 20:17	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/10/18 20:17	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/10/18 20:17	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/10/18 20:17	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/10/18 20:17	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/10/18 20:17	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 20:17	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 20:17	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 20:17	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/10/18 20:17	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/10/18 20:17	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/10/18 20:17	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: CR-2 **Lab ID: 40175286002** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/10/18 20:17	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/10/18 20:17	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/10/18 20:17	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/10/18 20:17	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/10/18 20:17	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 20:17	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/10/18 20:17	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/10/18 20:17	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/10/18 20:17	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/10/18 20:17	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 20:17	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 20:17	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/10/18 20:17	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/10/18 20:17	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/10/18 20:17	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/10/18 20:17	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/10/18 20:17	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/10/18 20:17	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/10/18 20:17	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/10/18 20:17	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 20:17	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/10/18 20:17	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/10/18 20:17	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/10/18 20:17	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 20:17	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/10/18 20:17	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/10/18 20:17	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/10/18 20:17	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 20:17	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/10/18 20:17	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 20:17	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/10/18 20:17	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/10/18 20:17	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/10/18 20:17	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 20:17	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/10/18 20:17	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 20:17	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/10/18 20:17	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/10/18 20:17	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/10/18 20:17	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/10/18 20:17	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/10/18 20:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/10/18 20:17	460-00-4	HS
Dibromofluoromethane (S)	95	%	70-130		1		09/10/18 20:17	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/10/18 20:17	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: TD P3 CR
Pace Project No.: 40175286

Sample: CR-3 **Lab ID: 40175286003** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<269**	ug/L	1000	269	1000		09/10/18 23:52	630-20-6	
1,1,1-Trichloroethane	**<245**	ug/L	1000	245	1000		09/10/18 23:52	71-55-6	
1,1,2,2-Tetrachloroethane	**<275**	ug/L	1000	275	1000		09/10/18 23:52	79-34-5	
1,1,2-Trichloroethane	**<552**	ug/L	5000	552	1000		09/10/18 23:52	79-00-5	
1,1-Dichloroethane	**71900**	ug/L	1000	273	1000		09/10/18 23:52	75-34-3	
1,1-Dichloroethene	**1130**	ug/L	1000	245	1000		09/10/18 23:52	75-35-4	
1,1-Dichloropropene	**<540**	ug/L	1800	540	1000		09/10/18 23:52	563-58-6	
1,2,3-Trichlorobenzene	**<626**	ug/L	5000	626	1000		09/10/18 23:52	87-61-6	
1,2,3-Trichloropropane	**<591**	ug/L	5000	591	1000		09/10/18 23:52	96-18-4	
1,2,4-Trichlorobenzene	**<951**	ug/L	5000	951	1000		09/10/18 23:52	120-82-1	
1,2,4-Trimethylbenzene	**<841**	ug/L	2800	841	1000		09/10/18 23:52	95-63-6	
1,2-Dibromo-3-chloropropane	**<1760**	ug/L	5880	1760	1000		09/10/18 23:52	96-12-8	
1,2-Dibromoethane (EDB)	**<829**	ug/L	2760	829	1000		09/10/18 23:52	106-93-4	
1,2-Dichlorobenzene	**<705**	ug/L	2350	705	1000		09/10/18 23:52	95-50-1	
1,2-Dichloroethane	**<280**	ug/L	1000	280	1000		09/10/18 23:52	107-06-2	
1,2-Dichloropropane	**<283**	ug/L	1000	283	1000		09/10/18 23:52	78-87-5	
1,3,5-Trimethylbenzene	**<873**	ug/L	2910	873	1000		09/10/18 23:52	108-67-8	
1,3-Dichlorobenzene	**<628**	ug/L	2090	628	1000		09/10/18 23:52	541-73-1	
1,3-Dichloropropane	**<826**	ug/L	2750	826	1000		09/10/18 23:52	142-28-9	
1,4-Dichlorobenzene	**<944**	ug/L	3150	944	1000		09/10/18 23:52	106-46-7	
2,2-Dichloropropane	**<2270**	ug/L	7550	2270	1000		09/10/18 23:52	594-20-7	
2-Chlorotoluene	**<926**	ug/L	5000	926	1000		09/10/18 23:52	95-49-8	
4-Chlorotoluene	**<756**	ug/L	2520	756	1000		09/10/18 23:52	106-43-4	
Benzene	**<246**	ug/L	1000	246	1000		09/10/18 23:52	71-43-2	
Bromobenzene	**<241**	ug/L	1000	241	1000		09/10/18 23:52	108-86-1	
Bromochloromethane	**<362**	ug/L	5000	362	1000		09/10/18 23:52	74-97-5	
Bromodichloromethane	**<364**	ug/L	1210	364	1000		09/10/18 23:52	75-27-4	
Bromoform	**<3970**	ug/L	13200	3970	1000		09/10/18 23:52	75-25-2	
Bromomethane	**<971**	ug/L	5000	971	1000		09/10/18 23:52	74-83-9	
Carbon tetrachloride	**<166**	ug/L	1000	166	1000		09/10/18 23:52	56-23-5	
Chlorobenzene	**<711**	ug/L	2370	711	1000		09/10/18 23:52	108-90-7	
Chloroethane	**63100**	ug/L	5000	1340	1000		09/10/18 23:52	75-00-3	
Chloroform	**<1270**	ug/L	5000	1270	1000		09/10/18 23:52	67-66-3	
Chloromethane	**<2190**	ug/L	7300	2190	1000		09/10/18 23:52	74-87-3	
Dibromochloromethane	**<2600**	ug/L	8670	2600	1000		09/10/18 23:52	124-48-1	
Dibromomethane	**<937**	ug/L	3120	937	1000		09/10/18 23:52	74-95-3	
Dichlorodifluoromethane	**<500**	ug/L	5000	500	1000		09/10/18 23:52	75-71-8	
Diisopropyl ether	**<1890**	ug/L	6290	1890	1000		09/10/18 23:52	108-20-3	
Ethylbenzene	**<218**	ug/L	1000	218	1000		09/10/18 23:52	100-41-4	
Hexachloro-1,3-butadiene	**<1180**	ug/L	5000	1180	1000		09/10/18 23:52	87-68-3	
Isopropylbenzene (Cumene)	**<393**	ug/L	5000	393	1000		09/10/18 23:52	98-82-8	
Methyl-tert-butyl ether	**<1250**	ug/L	4150	1250	1000		09/10/18 23:52	1634-04-4	
Methylene Chloride	**<581**	ug/L	5000	581	1000		09/10/18 23:52	75-09-2	
Naphthalene	**<1180**	ug/L	5000	1180	1000		09/10/18 23:52	91-20-3	
Styrene	**<465**	ug/L	1550	465	1000		09/10/18 23:52	100-42-5	
Tetrachloroethene	**<326**	ug/L	1090	326	1000		09/10/18 23:52	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: CR-3 **Lab ID: 40175286003** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<172**	ug/L	5000	172	1000		09/10/18 23:52	108-88-3	
Trichloroethene	**<255**	ug/L	1000	255	1000		09/10/18 23:52	79-01-6	
Trichlorofluoromethane	**<215**	ug/L	1000	215	1000		09/10/18 23:52	75-69-4	
Vinyl chloride	**5380**	ug/L	1000	175	1000		09/10/18 23:52	75-01-4	
cis-1,2-Dichloroethene	**<271**	ug/L	1000	271	1000		09/10/18 23:52	156-59-2	
cis-1,3-Dichloropropene	**<3630**	ug/L	12100	3630	1000		09/10/18 23:52	10061-01-5	
m&p-Xylene	**<465**	ug/L	2000	465	1000		09/10/18 23:52	179601-23-1	
n-Butylbenzene	**<708**	ug/L	2360	708	1000		09/10/18 23:52	104-51-8	
n-Propylbenzene	**<811**	ug/L	5000	811	1000		09/10/18 23:52	103-65-1	
o-Xylene	**<262**	ug/L	1000	262	1000		09/10/18 23:52	95-47-6	
p-Isopropyltoluene	**<800**	ug/L	2670	800	1000		09/10/18 23:52	99-87-6	
sec-Butylbenzene	**<849**	ug/L	5000	849	1000		09/10/18 23:52	135-98-8	
tert-Butylbenzene	**<304**	ug/L	1010	304	1000		09/10/18 23:52	98-06-6	
trans-1,2-Dichloroethene	**<1090**	ug/L	3640	1090	1000		09/10/18 23:52	156-60-5	
trans-1,3-Dichloropropene	**<4370**	ug/L	14600	4370	1000		09/10/18 23:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1000		09/10/18 23:52	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1000		09/10/18 23:52	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1000		09/10/18 23:52	2037-26-5	

Sample: CR-4 **Lab ID: 40175286004** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 19:34	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/10/18 19:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 19:34	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/10/18 19:34	79-00-5	
1,1-Dichloroethane	**1.0**	ug/L	1.0	0.27	1		09/10/18 19:34	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 19:34	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/10/18 19:34	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/10/18 19:34	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/10/18 19:34	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/10/18 19:34	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/10/18 19:34	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/10/18 19:34	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/10/18 19:34	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 19:34	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 19:34	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 19:34	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/10/18 19:34	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/10/18 19:34	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/10/18 19:34	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: CR-4 **Lab ID: 40175286004** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/10/18 19:34	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/10/18 19:34	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/10/18 19:34	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/10/18 19:34	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/10/18 19:34	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 19:34	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/10/18 19:34	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/10/18 19:34	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/10/18 19:34	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/10/18 19:34	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 19:34	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 19:34	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/10/18 19:34	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/10/18 19:34	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/10/18 19:34	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/10/18 19:34	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/10/18 19:34	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/10/18 19:34	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/10/18 19:34	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/10/18 19:34	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 19:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/10/18 19:34	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/10/18 19:34	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/10/18 19:34	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 19:34	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/10/18 19:34	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/10/18 19:34	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/10/18 19:34	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 19:34	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/10/18 19:34	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 19:34	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/10/18 19:34	156-59-2	M1,R1
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/10/18 19:34	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/10/18 19:34	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 19:34	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/10/18 19:34	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 19:34	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/10/18 19:34	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/10/18 19:34	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/10/18 19:34	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/10/18 19:34	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/10/18 19:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/10/18 19:34	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		09/10/18 19:34	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/10/18 19:34	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: TD P3 CR
Pace Project No.: 40175286

Sample: CR-5 **Lab ID: 40175286005** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 20:39	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/10/18 20:39	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 20:39	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/10/18 20:39	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 20:39	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 20:39	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/10/18 20:39	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/10/18 20:39	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/10/18 20:39	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/10/18 20:39	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/10/18 20:39	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/10/18 20:39	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/10/18 20:39	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 20:39	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 20:39	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 20:39	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/10/18 20:39	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/10/18 20:39	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/10/18 20:39	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/10/18 20:39	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/10/18 20:39	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/10/18 20:39	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/10/18 20:39	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/10/18 20:39	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 20:39	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/10/18 20:39	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/10/18 20:39	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/10/18 20:39	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/10/18 20:39	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 20:39	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 20:39	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/10/18 20:39	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/10/18 20:39	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/10/18 20:39	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/10/18 20:39	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/10/18 20:39	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/10/18 20:39	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/10/18 20:39	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/10/18 20:39	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 20:39	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/10/18 20:39	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/10/18 20:39	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/10/18 20:39	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 20:39	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/10/18 20:39	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/10/18 20:39	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: CR-5 **Lab ID: 40175286005** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/10/18 20:39	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 20:39	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/10/18 20:39	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 20:39	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/10/18 20:39	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/10/18 20:39	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/10/18 20:39	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 20:39	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/10/18 20:39	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 20:39	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/10/18 20:39	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/10/18 20:39	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/10/18 20:39	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/10/18 20:39	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/10/18 20:39	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/10/18 20:39	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		09/10/18 20:39	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		09/10/18 20:39	2037-26-5	

Sample: TB **Lab ID: 40175286006** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 17:47	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		09/10/18 17:47	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 17:47	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		09/10/18 17:47	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		09/10/18 17:47	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 17:47	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		09/10/18 17:47	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		09/10/18 17:47	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		09/10/18 17:47	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		09/10/18 17:47	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		09/10/18 17:47	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		09/10/18 17:47	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		09/10/18 17:47	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 17:47	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 17:47	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		09/10/18 17:47	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		09/10/18 17:47	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		09/10/18 17:47	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		09/10/18 17:47	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40175286

Sample: TB **Lab ID: 40175286006** Collected: 09/04/18 00:00 Received: 09/06/18 14:54 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		09/10/18 17:47	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		09/10/18 17:47	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		09/10/18 17:47	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		09/10/18 17:47	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		09/10/18 17:47	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		09/10/18 17:47	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		09/10/18 17:47	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		09/10/18 17:47	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		09/10/18 17:47	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		09/10/18 17:47	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 17:47	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 17:47	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		09/10/18 17:47	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		09/10/18 17:47	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		09/10/18 17:47	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		09/10/18 17:47	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		09/10/18 17:47	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		09/10/18 17:47	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		09/10/18 17:47	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		09/10/18 17:47	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 17:47	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		09/10/18 17:47	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		09/10/18 17:47	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		09/10/18 17:47	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		09/10/18 17:47	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		09/10/18 17:47	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		09/10/18 17:47	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		09/10/18 17:47	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 17:47	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		09/10/18 17:47	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		09/10/18 17:47	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		09/10/18 17:47	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		09/10/18 17:47	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		09/10/18 17:47	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		09/10/18 17:47	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		09/10/18 17:47	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		09/10/18 17:47	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		09/10/18 17:47	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		09/10/18 17:47	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		09/10/18 17:47	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		09/10/18 17:47	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		09/10/18 17:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/10/18 17:47	460-00-4	
Dibromofluoromethane (S)	95	%	70-130		1		09/10/18 17:47	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/10/18 17:47	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: TD P3 CR
Pace Project No.: 40175286

QC Batch: 299576 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40175286001, 40175286002, 40175286003, 40175286004, 40175286005, 40175286006

METHOD BLANK: 1750095 Matrix: Water
Associated Lab Samples: 40175286001, 40175286002, 40175286003, 40175286004, 40175286005, 40175286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	09/10/18 16:00	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	09/10/18 16:00	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	09/10/18 16:00	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	09/10/18 16:00	
1,1-Dichloroethane	ug/L	<0.27	1.0	09/10/18 16:00	
1,1-Dichloroethene	ug/L	<0.24	1.0	09/10/18 16:00	
1,1-Dichloropropene	ug/L	<0.54	1.8	09/10/18 16:00	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	09/10/18 16:00	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	09/10/18 16:00	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/10/18 16:00	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/10/18 16:00	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	09/10/18 16:00	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	09/10/18 16:00	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	09/10/18 16:00	
1,2-Dichloroethane	ug/L	<0.28	1.0	09/10/18 16:00	
1,2-Dichloropropane	ug/L	<0.28	1.0	09/10/18 16:00	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/10/18 16:00	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	09/10/18 16:00	
1,3-Dichloropropane	ug/L	<0.83	2.8	09/10/18 16:00	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	09/10/18 16:00	
2,2-Dichloropropane	ug/L	<2.3	7.6	09/10/18 16:00	
2-Chlorotoluene	ug/L	<0.93	5.0	09/10/18 16:00	
4-Chlorotoluene	ug/L	<0.76	2.5	09/10/18 16:00	
Benzene	ug/L	<0.25	1.0	09/10/18 16:00	
Bromobenzene	ug/L	<0.24	1.0	09/10/18 16:00	
Bromochloromethane	ug/L	<0.36	5.0	09/10/18 16:00	
Bromodichloromethane	ug/L	<0.36	1.2	09/10/18 16:00	
Bromoform	ug/L	<4.0	13.2	09/10/18 16:00	
Bromomethane	ug/L	<0.97	5.0	09/10/18 16:00	
Carbon tetrachloride	ug/L	<0.17	1.0	09/10/18 16:00	
Chlorobenzene	ug/L	<0.71	2.4	09/10/18 16:00	
Chloroethane	ug/L	<1.3	5.0	09/10/18 16:00	
Chloroform	ug/L	<1.3	5.0	09/10/18 16:00	
Chloromethane	ug/L	<2.2	7.3	09/10/18 16:00	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	09/10/18 16:00	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	09/10/18 16:00	
Dibromochloromethane	ug/L	<2.6	8.7	09/10/18 16:00	
Dibromomethane	ug/L	<0.94	3.1	09/10/18 16:00	
Dichlorodifluoromethane	ug/L	<0.50	5.0	09/10/18 16:00	
Diisopropyl ether	ug/L	<1.9	6.3	09/10/18 16:00	
Ethylbenzene	ug/L	<0.22	1.0	09/10/18 16:00	

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: TD P3 CR
Pace Project No.: 40175286

METHOD BLANK: 1750095 Matrix: Water
Associated Lab Samples: 40175286001, 40175286002, 40175286003, 40175286004, 40175286005, 40175286006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	09/10/18 16:00	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	09/10/18 16:00	
m&p-Xylene	ug/L	<0.47	2.0	09/10/18 16:00	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/10/18 16:00	
Methylene Chloride	ug/L	<0.58	5.0	09/10/18 16:00	
n-Butylbenzene	ug/L	<0.71	2.4	09/10/18 16:00	
n-Propylbenzene	ug/L	<0.81	5.0	09/10/18 16:00	
Naphthalene	ug/L	<1.2	5.0	09/10/18 16:00	
o-Xylene	ug/L	<0.26	1.0	09/10/18 16:00	
p-Isopropyltoluene	ug/L	<0.80	2.7	09/10/18 16:00	
sec-Butylbenzene	ug/L	<0.85	5.0	09/10/18 16:00	
Styrene	ug/L	<0.47	1.6	09/10/18 16:00	
tert-Butylbenzene	ug/L	<0.30	1.0	09/10/18 16:00	
Tetrachloroethene	ug/L	<0.33	1.1	09/10/18 16:00	
Toluene	ug/L	<0.17	5.0	09/10/18 16:00	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	09/10/18 16:00	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	09/10/18 16:00	
Trichloroethene	ug/L	<0.26	1.0	09/10/18 16:00	
Trichlorofluoromethane	ug/L	<0.21	1.0	09/10/18 16:00	
Vinyl chloride	ug/L	<0.17	1.0	09/10/18 16:00	
4-Bromofluorobenzene (S)	%	99	70-130	09/10/18 16:00	
Dibromofluoromethane (S)	%	99	70-130	09/10/18 16:00	
Toluene-d8 (S)	%	101	70-130	09/10/18 16:00	

LABORATORY CONTROL SAMPLE: 1750096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.4	105	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	49.8	100	67-130	
1,1,2-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1-Dichloroethane	ug/L	50	60.1	120	70-134	
1,1-Dichloroethene	ug/L	50	59.2	118	75-132	
1,2,4-Trichlorobenzene	ug/L	50	52.2	104	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.0	96	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	104	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	52.1	104	73-134	
1,2-Dichloropropane	ug/L	50	49.4	99	79-128	
1,3-Dichlorobenzene	ug/L	50	53.5	107	70-130	
1,4-Dichlorobenzene	ug/L	50	52.1	104	70-130	
Benzene	ug/L	50	52.2	104	69-137	
Bromodichloromethane	ug/L	50	51.3	103	70-130	
Bromoform	ug/L	50	51.9	104	64-133	
Bromomethane	ug/L	50	36.9	74	29-123	

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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: TD P3 CR
Pace Project No.: 40175286

LABORATORY CONTROL SAMPLE: 1750096

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.7	105	73-142	
Chlorobenzene	ug/L	50	53.0	106	70-130	
Chloroethane	ug/L	50	54.9	110	59-133	
Chloroform	ug/L	50	52.0	104	80-129	
Chloromethane	ug/L	50	41.6	83	27-125	
cis-1,2-Dichloroethene	ug/L	50	57.3	115	70-134	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	51.4	103	70-130	
Dichlorodifluoromethane	ug/L	50	39.7	79	12-127	
Ethylbenzene	ug/L	50	55.6	111	86-127	
Isopropylbenzene (Cumene)	ug/L	50	55.9	112	70-130	
m&p-Xylene	ug/L	100	111	111	70-131	
Methyl-tert-butyl ether	ug/L	50	52.7	105	65-136	
Methylene Chloride	ug/L	50	52.6	105	72-133	
o-Xylene	ug/L	50	54.3	109	70-130	
Styrene	ug/L	50	54.3	109	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	54.3	109	84-124	
trans-1,2-Dichloroethene	ug/L	50	56.5	113	70-133	
trans-1,3-Dichloropropene	ug/L	50	51.8	104	67-130	
Trichloroethene	ug/L	50	53.9	108	70-130	
Trichlorofluoromethane	ug/L	50	60.8	122	69-147	
Vinyl chloride	ug/L	50	51.9	104	48-134	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1750462 1750463

Parameter	Units	40175286004 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	<0.24	50	50	53.5	57.2	107	114	70-136	7	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.9	52.7	100	105	67-133	5	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.9	51.5	100	103	70-130	3	20	
1,1-Dichloroethane	ug/L	1.0	50	50	57.7	64.7	113	127	70-139	11	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	55.9	56.0	112	112	72-137	0	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.7	52.7	99	105	68-130	6	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	48.7	52.3	97	105	60-130	7	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.8	53.4	102	107	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.0	52.1	100	104	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	48.9	55.8	98	112	71-137	13	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	46.9	47.1	94	94	78-130	0	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.3	52.8	103	106	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.5	52.0	101	104	70-130	3	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: TD P3 CR
Pace Project No.: 40175286

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1750462 1750463

Parameter	Units	40175286004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	49.8	54.9	100	110	66-143	10	20	
Bromodichloromethane	ug/L	<0.36	50	50	49.4	50.4	99	101	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	51.0	52.9	102	106	64-134	4	20	
Bromomethane	ug/L	<0.97	50	50	37.2	36.9	74	74	29-136	1	25	
Carbon tetrachloride	ug/L	<0.17	50	50	51.0	57.7	102	115	73-142	12	20	
Chlorobenzene	ug/L	<0.71	50	50	51.0	52.7	102	105	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	50.2	52.7	100	105	58-138	5	20	
Chloroform	ug/L	<1.3	50	50	51.4	53.4	103	107	80-131	4	20	
Chloromethane	ug/L	<2.2	50	50	39.9	40.2	80	80	24-125	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	54.7	71.1	109	142	68-137	26	22	M1,R1
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	50.3	51.3	101	103	70-130	2	20	
Dibromochloromethane	ug/L	<2.6	50	50	49.6	51.4	99	103	70-131	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	36.9	36.9	74	74	10-127	0	20	
Ethylbenzene	ug/L	<0.22	50	50	53.0	55.2	106	110	81-136	4	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	53.5	54.8	107	110	70-132	2	20	
m&p-Xylene	ug/L	<0.47	100	100	106	109	106	109	70-135	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	51.1	51.6	102	103	58-142	1	23	
Methylene Chloride	ug/L	<0.58	50	50	48.9	50.6	98	101	69-137	3	20	
o-Xylene	ug/L	<0.26	50	50	51.8	53.5	104	107	70-132	3	20	
Styrene	ug/L	<0.47	50	50	52.0	53.4	104	107	70-130	2	20	
Tetrachloroethene	ug/L	<0.33	50	50	49.9	51.9	100	104	70-132	4	20	
Toluene	ug/L	<0.17	50	50	51.5	54.0	103	108	81-130	5	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.7	53.6	107	107	70-136	0	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	50.2	52.2	100	104	67-130	4	20	
Trichloroethene	ug/L	<0.26	50	50	51.6	53.3	103	107	70-131	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	57.6	59.3	115	119	66-150	3	20	
Vinyl chloride	ug/L	<0.17	50	50	49.1	50.1	98	100	46-134	2	20	
4-Bromofluorobenzene (S)	%						99	100	70-130			
Dibromofluoromethane (S)	%						100	101	70-130			
Toluene-d8 (S)	%						99	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: TD P3 CR
Pace Project No.: 40175286

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.

ANALYTE QUALIFIERS

HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TD P3 CR
Pace Project No.: 40175286

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40175286001	**CR-1**	EPA 8260	299576		
40175286002	**CR-2**	EPA 8260	299576		
40175286003	**CR-3**	EPA 8260	299576		
40175286004	**CR-4**	EPA 8260	299576		
40175286005	**CR-5**	EPA 8260	299576		
40175286006	**TB**	EPA 8260	299576		

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40175286

Page: 1 of 1

Section A Required Client Information:

Company:	Environmental Audits Inc.
Address:	11327 W Lincoln Avenue, West Allis Wi 53051
Email To:	john@environmentalaudits.net
Phone:	414-226-5563
Fax:	
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	jrruetz@yahoo.com;
Copy To:	eeriii@wi.rr.com; john@environmentalaudits.net steph@environmentalaudits.net
Purchase Order No.:	Verbal
Project Name:	TD P3 CR
Project Number:	

Section C Invoice Information:

Attention:	John Ruetz
Company Name:	Environmental Audits Inc.
Address:	11327 W Lincoln Avenue
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

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

Site Location STATE: WI

Section D Required Client Information

Valid Matrix Codes: DRINKING WATER DW; WATER WT; WASTE WATER WW; PRODUCT P; SOIL/SOLID SL; OIL OL; WIPE WP; AIR AR; OTHER OT; TISSUE TS

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

Requested Analysis Filtered (Y/N): N

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test	VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	CR-1 001	GW	G	9/4/18					3				x						3		
2	CR-2 002	GW	G	9/4/18					3				x						3		
3	CR-3 003	GW	G	9/4/18					3				x						3		
4	CR-4 004	GW	G	9/4/18					3				x						3		
5	CR-5 005	GW	G	9/4/18					3				x						3		
6	TB 006																				received in cooler-added to coc by lab 9/6/18
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Stephanie Wagner	9/4/18		Mary Fannin	9/5/18	1445				
	Mary Fannin	9/5/18	1520							
	CS Logistics	9/6/18	0855	[signature]	9/6/18	0855	RT	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Stephanie Wagner

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 9/4/18

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

Sample Preservation Receipt Form

Client Name: CMWS audits Project # 40175286

All containers needing preservation have been checked and noted below: □Yes □No □N/A

Lab Lot# of pH paper: / Lab Std #ID of preservation (if pH adjusted):

Initial when completed: Date/ Time:

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3									/						2.5 / 5 / 10
002																		3									3						2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																		3															2.5 / 5 / 10
005																		3															2.5 / 5 / 10
006																		2															2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302	Document Name: **Sample Condition Upon Receipt (SCUR)**	Document Revised: 25Apr2018
	Document No.: **F-GB-C-031-Rev.07**	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40175286**

40175286

Client Name: Enviro audits

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco
☐ 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 SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.3 /Corr: _____

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents:
Date: 9/6/18
Initials:

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. no time 9/6/18
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3. no time 9/6/18
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume:		8.
For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	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		
Trip Blank Present:	☑Yes ☐No ☐N/A	13. received in cooler added to coc by bb 9/6/18
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased): 402		

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: RMR DC PM **Date:** 9/6/18

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

March 19, 2019

John Ruetz
Environmental Audits Inc
11327 W Lincoln Ave
West Allis, WI 53227

RE: Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Dear John Ruetz:
Enclosed are the analytical results for sample(s) received by the laboratory on March 15, 2019. 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: Ed Raymond, Environmental Audits, Inc
Steve Tiber, Environmental Audits Inc.
Stephanie Wagner, Environmental Audits, Inc.

Pace Analytical Services, LLC
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CERTIFICATIONS

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

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: TD-BROACH-QTR 1
Pace Project No.: 40184238

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40184238001	**MW-15**	Water	03/14/19 11:00	03/15/19 08:55
40184238002	**CR-1**	Water	03/14/19 11:00	03/15/19 08:55
40184238003	**CR-2**	Water	03/14/19 11:00	03/15/19 08:55

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

SAMPLE ANALYTE COUNT

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40184238001	**MW-15**	EPA 8260	HNW	64
40184238002	**CR-1**	EPA 8260	HNW	64
40184238003	**CR-2**	EPA 8260	HNW	64

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Sample: MW-15 **Lab ID: 40184238001** Collected: 03/14/19 11:00 Received: 03/15/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		03/18/19 21:58	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/18/19 21:58	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 21:58	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		03/18/19 21:58	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		03/18/19 21:58	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		03/18/19 21:58	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		03/18/19 21:58	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		03/18/19 21:58	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		03/18/19 21:58	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		03/18/19 21:58	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		03/18/19 21:58	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		03/18/19 21:58	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		03/18/19 21:58	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 21:58	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 21:58	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 21:58	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		03/18/19 21:58	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		03/18/19 21:58	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		03/18/19 21:58	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		03/18/19 21:58	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		03/18/19 21:58	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		03/18/19 21:58	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		03/18/19 21:58	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		03/18/19 21:58	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		03/18/19 21:58	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		03/18/19 21:58	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		03/18/19 21:58	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		03/18/19 21:58	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		03/18/19 21:58	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		03/18/19 21:58	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 21:58	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		03/18/19 21:58	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		03/18/19 21:58	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		03/18/19 21:58	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		03/18/19 21:58	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		03/18/19 21:58	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		03/18/19 21:58	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		03/18/19 21:58	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		03/18/19 21:58	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		03/18/19 21:58	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		03/18/19 21:58	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		03/18/19 21:58	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		03/18/19 21:58	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		03/18/19 21:58	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		03/18/19 21:58	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		03/18/19 21:58	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Sample: MW-15 **Lab ID: 40184238001** Collected: 03/14/19 11:00 Received: 03/15/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		03/18/19 21:58	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/18/19 21:58	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		03/18/19 21:58	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/18/19 21:58	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		03/18/19 21:58	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		03/18/19 21:58	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		03/18/19 21:58	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 21:58	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		03/18/19 21:58	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		03/18/19 21:58	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		03/18/19 21:58	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		03/18/19 21:58	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		03/18/19 21:58	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		03/18/19 21:58	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		03/18/19 21:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		03/18/19 21:58	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		03/18/19 21:58	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/18/19 21:58	2037-26-5	

Sample: CR-1 **Lab ID: 40184238002** Collected: 03/14/19 11:00 Received: 03/15/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		03/18/19 13:11	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/18/19 13:11	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 13:11	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		03/18/19 13:11	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		03/18/19 13:11	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		03/18/19 13:11	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		03/18/19 13:11	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		03/18/19 13:11	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		03/18/19 13:11	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		03/18/19 13:11	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		03/18/19 13:11	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		03/18/19 13:11	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		03/18/19 13:11	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 13:11	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 13:11	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 13:11	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		03/18/19 13:11	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		03/18/19 13:11	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		03/18/19 13:11	142-28-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
1241 Bellevue Street - Suite 9
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ANALYTICAL RESULTS

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Sample: CR-1 **Lab ID: 40184238002** Collected: 03/14/19 11:00 Received: 03/15/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		03/18/19 13:11	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		03/18/19 13:11	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		03/18/19 13:11	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		03/18/19 13:11	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		03/18/19 13:11	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		03/18/19 13:11	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		03/18/19 13:11	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		03/18/19 13:11	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		03/18/19 13:11	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		03/18/19 13:11	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		03/18/19 13:11	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 13:11	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		03/18/19 13:11	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		03/18/19 13:11	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		03/18/19 13:11	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		03/18/19 13:11	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		03/18/19 13:11	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		03/18/19 13:11	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		03/18/19 13:11	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		03/18/19 13:11	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		03/18/19 13:11	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		03/18/19 13:11	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		03/18/19 13:11	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		03/18/19 13:11	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		03/18/19 13:11	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		03/18/19 13:11	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		03/18/19 13:11	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		03/18/19 13:11	108-88-3	
Trichloroethene	**0.43J**	ug/L	1.0	0.26	1		03/18/19 13:11	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		03/18/19 13:11	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/18/19 13:11	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		03/18/19 13:11	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		03/18/19 13:11	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		03/18/19 13:11	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 13:11	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		03/18/19 13:11	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		03/18/19 13:11	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		03/18/19 13:11	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		03/18/19 13:11	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		03/18/19 13:11	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		03/18/19 13:11	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		03/18/19 13:11	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/18/19 13:11	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		03/18/19 13:11	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/18/19 13:11	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: TD-BROACH-QTR 1
Pace Project No.: 40184238

Sample: CR-2 **Lab ID: 40184238003** Collected: 03/14/19 11:00 Received: 03/15/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		03/18/19 13:34	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		03/18/19 13:34	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 13:34	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		03/18/19 13:34	79-00-5	
1,1-Dichloroethane	**4.3**	ug/L	1.0	0.27	1		03/18/19 13:34	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		03/18/19 13:34	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		03/18/19 13:34	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		03/18/19 13:34	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		03/18/19 13:34	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		03/18/19 13:34	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		03/18/19 13:34	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		03/18/19 13:34	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		03/18/19 13:34	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 13:34	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 13:34	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		03/18/19 13:34	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		03/18/19 13:34	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		03/18/19 13:34	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		03/18/19 13:34	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		03/18/19 13:34	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		03/18/19 13:34	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		03/18/19 13:34	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		03/18/19 13:34	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		03/18/19 13:34	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		03/18/19 13:34	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		03/18/19 13:34	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		03/18/19 13:34	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		03/18/19 13:34	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		03/18/19 13:34	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		03/18/19 13:34	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 13:34	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		03/18/19 13:34	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		03/18/19 13:34	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		03/18/19 13:34	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		03/18/19 13:34	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		03/18/19 13:34	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		03/18/19 13:34	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		03/18/19 13:34	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		03/18/19 13:34	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		03/18/19 13:34	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		03/18/19 13:34	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		03/18/19 13:34	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		03/18/19 13:34	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		03/18/19 13:34	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		03/18/19 13:34	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		03/18/19 13:34	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Sample: CR-2 **Lab ID: 40184238003** Collected: 03/14/19 11:00 Received: 03/15/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		03/18/19 13:34	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		03/18/19 13:34	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		03/18/19 13:34	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		03/18/19 13:34	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		03/18/19 13:34	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		03/18/19 13:34	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		03/18/19 13:34	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		03/18/19 13:34	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		03/18/19 13:34	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		03/18/19 13:34	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		03/18/19 13:34	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		03/18/19 13:34	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		03/18/19 13:34	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		03/18/19 13:34	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		03/18/19 13:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		1		03/18/19 13:34	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		03/18/19 13:34	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		03/18/19 13:34	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: TD-BROACH-QTR 1
Pace Project No.: 40184238

QC Batch: 315636 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40184238001, 40184238002, 40184238003

METHOD BLANK: 1836043 Matrix: Water
Associated Lab Samples: 40184238001, 40184238002, 40184238003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	03/18/19 08:21	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	03/18/19 08:21	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	03/18/19 08:21	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	03/18/19 08:21	
1,1-Dichloroethane	ug/L	<0.27	1.0	03/18/19 08:21	
1,1-Dichloroethene	ug/L	<0.24	1.0	03/18/19 08:21	
1,1-Dichloropropene	ug/L	<0.54	1.8	03/18/19 08:21	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	03/18/19 08:21	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	03/18/19 08:21	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	03/18/19 08:21	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	03/18/19 08:21	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	03/18/19 08:21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	03/18/19 08:21	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	03/18/19 08:21	
1,2-Dichloroethane	ug/L	<0.28	1.0	03/18/19 08:21	
1,2-Dichloropropane	ug/L	<0.28	1.0	03/18/19 08:21	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	03/18/19 08:21	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	03/18/19 08:21	
1,3-Dichloropropane	ug/L	<0.83	2.8	03/18/19 08:21	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	03/18/19 08:21	
2,2-Dichloropropane	ug/L	<2.3	7.6	03/18/19 08:21	
2-Chlorotoluene	ug/L	<0.93	5.0	03/18/19 08:21	
4-Chlorotoluene	ug/L	<0.76	2.5	03/18/19 08:21	
Benzene	ug/L	<0.25	1.0	03/18/19 08:21	
Bromobenzene	ug/L	<0.24	1.0	03/18/19 08:21	
Bromochloromethane	ug/L	<0.36	5.0	03/18/19 08:21	
Bromodichloromethane	ug/L	<0.36	1.2	03/18/19 08:21	
Bromoform	ug/L	<4.0	13.2	03/18/19 08:21	
Bromomethane	ug/L	<0.97	5.0	03/18/19 08:21	
Carbon tetrachloride	ug/L	<0.17	1.0	03/18/19 08:21	
Chlorobenzene	ug/L	<0.71	2.4	03/18/19 08:21	
Chloroethane	ug/L	<1.3	5.0	03/18/19 08:21	
Chloroform	ug/L	<1.3	5.0	03/18/19 08:21	
Chloromethane	ug/L	<2.2	7.3	03/18/19 08:21	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	03/18/19 08:21	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	03/18/19 08:21	
Dibromochloromethane	ug/L	<2.6	8.7	03/18/19 08:21	
Dibromomethane	ug/L	<0.94	3.1	03/18/19 08:21	
Dichlorodifluoromethane	ug/L	<0.50	5.0	03/18/19 08:21	
Diisopropyl ether	ug/L	<1.9	6.3	03/18/19 08:21	
Ethylbenzene	ug/L	<0.22	1.0	03/18/19 08:21	

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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: TD-BROACH-QTR 1
Pace Project No.: 40184238

METHOD BLANK: 1836043 Matrix: Water
Associated Lab Samples: 40184238001, 40184238002, 40184238003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	03/18/19 08:21	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	03/18/19 08:21	
m&p-Xylene	ug/L	<0.47	2.0	03/18/19 08:21	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	03/18/19 08:21	
Methylene Chloride	ug/L	<0.58	5.0	03/18/19 08:21	
n-Butylbenzene	ug/L	<0.71	2.4	03/18/19 08:21	
n-Propylbenzene	ug/L	<0.81	5.0	03/18/19 08:21	
Naphthalene	ug/L	<1.2	5.0	03/18/19 08:21	
o-Xylene	ug/L	<0.26	1.0	03/18/19 08:21	
p-Isopropyltoluene	ug/L	<0.80	2.7	03/18/19 08:21	
sec-Butylbenzene	ug/L	<0.85	5.0	03/18/19 08:21	
Styrene	ug/L	<0.47	1.6	03/18/19 08:21	
tert-Butylbenzene	ug/L	<0.30	1.0	03/18/19 08:21	
Tetrachloroethene	ug/L	<0.33	1.1	03/18/19 08:21	
Toluene	ug/L	<0.17	5.0	03/18/19 08:21	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	03/18/19 08:21	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	03/18/19 08:21	
Trichloroethene	ug/L	<0.26	1.0	03/18/19 08:21	
Trichlorofluoromethane	ug/L	<0.21	1.0	03/18/19 08:21	
Vinyl chloride	ug/L	<0.17	1.0	03/18/19 08:21	
4-Bromofluorobenzene (S)	%	101	70-130	03/18/19 08:21	
Dibromofluoromethane (S)	%	109	70-130	03/18/19 08:21	
Toluene-d8 (S)	%	103	70-130	03/18/19 08:21	

LABORATORY CONTROL SAMPLE: 1836044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.8	108	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	51.8	104	67-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	61.4	123	70-134	
1,1-Dichloroethene	ug/L	50	55.5	111	75-132	
1,2,4-Trichlorobenzene	ug/L	50	45.8	92	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	58.8	118	73-134	
1,2-Dichloropropane	ug/L	50	53.6	107	79-128	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
Benzene	ug/L	50	56.5	113	69-137	
Bromodichloromethane	ug/L	50	50.3	101	70-130	
Bromoform	ug/L	50	39.6	79	64-133	
Bromomethane	ug/L	50	56.7	113	29-123	

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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: TD-BROACH-QTR 1
Pace Project No.: 40184238

LABORATORY CONTROL SAMPLE: 1836044

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	51.4	103	73-142	
Chlorobenzene	ug/L	50	51.1	102	70-130	
Chloroethane	ug/L	50	55.5	111	59-133	
Chloroform	ug/L	50	53.8	108	80-129	
Chloromethane	ug/L	50	36.6	73	27-125	
cis-1,2-Dichloroethene	ug/L	50	57.1	114	70-134	
cis-1,3-Dichloropropene	ug/L	50	48.3	97	70-130	
Dibromochloromethane	ug/L	50	47.1	94	70-130	
Dichlorodifluoromethane	ug/L	50	30.5	61	12-127	
Ethylbenzene	ug/L	50	52.8	106	86-127	
Isopropylbenzene (Cumene)	ug/L	50	52.1	104	70-130	
m&p-Xylene	ug/L	100	105	105	70-131	
Methyl-tert-butyl ether	ug/L	50	52.5	105	65-136	
Methylene Chloride	ug/L	50	56.4	113	72-133	
o-Xylene	ug/L	50	51.2	102	70-130	
Styrene	ug/L	50	52.3	105	70-130	
Tetrachloroethene	ug/L	50	48.3	97	70-130	
Toluene	ug/L	50	52.0	104	84-124	
trans-1,2-Dichloroethene	ug/L	50	57.5	115	70-133	
trans-1,3-Dichloropropene	ug/L	50	48.0	96	67-130	
Trichloroethene	ug/L	50	52.7	105	70-130	
Trichlorofluoromethane	ug/L	50	59.2	118	69-147	
Vinyl chloride	ug/L	50	46.8	94	48-134	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			111	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1836659 1836660

Parameter	Units	40184223029 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	<0.24	50	50	54.8	53.2	110	106	70-136	3	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	53.6	53.1	107	106	67-133	1	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	53.2	52.3	106	105	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	62.6	60.6	125	121	70-139	3	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	57.0	55.0	114	110	72-137	4	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.5	47.0	95	92	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	49.4	49.3	99	99	60-130	0	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.0	49.8	100	100	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.2	49.4	102	98	70-130	4	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	59.9	58.2	120	116	71-137	3	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	54.2	52.8	108	106	78-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	51.1	49.7	102	99	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.3	50.3	102	100	70-130	2	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: TD-BROACH-QTR 1
Pace Project No.: 40184238

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1836659 1836660

Parameter	Units	40184223029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	57.4	55.5	115	111	66-143	3	20	
Bromodichloromethane	ug/L	<0.36	50	50	51.1	50.4	102	101	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	40.5	40.6	81	81	64-134	0	20	
Bromomethane	ug/L	<0.97	50	50	63.4	63.0	126	126	29-136	1	25	
Carbon tetrachloride	ug/L	<0.17	50	50	53.1	51.6	106	103	73-142	3	20	
Chlorobenzene	ug/L	<0.71	50	50	51.5	49.8	103	100	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	59.1	55.9	118	112	58-138	6	20	
Chloroform	ug/L	<1.3	50	50	57.7	55.7	115	111	80-131	3	20	
Chloromethane	ug/L	<2.2	50	50	40.8	39.8	82	80	24-125	2	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	58.4	56.6	117	113	68-137	3	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.5	48.0	99	96	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.5	47.9	97	96	70-131	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	40.6	39.4	81	79	10-127	3	20	
Ethylbenzene	ug/L	<0.22	50	50	53.1	51.8	106	104	81-136	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	52.5	51.0	105	102	70-132	3	20	
m&p-Xylene	ug/L	<0.47	100	100	105	102	105	102	70-135	3	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	53.6	52.1	107	104	58-142	3	23	
Methylene Chloride	ug/L	<0.58	50	50	57.7	56.3	115	112	69-137	2	20	
o-Xylene	ug/L	<0.26	50	50	50.9	49.7	102	99	70-132	2	20	
Styrene	ug/L	<0.47	50	50	52.3	50.9	104	102	70-130	3	20	
Tetrachloroethene	ug/L	<0.33	50	50	48.4	47.6	97	95	70-132	2	20	
Toluene	ug/L	0.26J	50	50	52.7	51.2	105	102	81-130	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	58.4	56.1	116	112	70-136	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	49.0	48.0	98	96	67-130	2	20	
Trichloroethene	ug/L	<0.26	50	50	52.8	52.0	106	104	70-131	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	61.4	59.3	123	119	66-150	3	20	
Vinyl chloride	ug/L	<0.17	50	50	50.3	48.9	101	98	46-134	3	20	
4-Bromofluorobenzene (S)	%						100	99	70-130			
Dibromofluoromethane (S)	%						112	111	70-130			
Toluene-d8 (S)	%						102	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

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

QUALIFIERS

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TD-BROACH-QTR 1
Pace Project No.: 40184238

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40184238001	**MW-15**	EPA 8260	315636		
40184238002	**CR-1**	EPA 8260	315636		
40184238003	**CR-2**	EPA 8260	315636		

Page 1 of 1

4018423 8

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

Pace Analytical®
www.pacelabs.com

PG

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:	ENVIRO AUDITS (EAI)
Branch/Location:	WEST ALLIS
Project Contact:	J. RUETZ
Phone:	414-491-4282
Project Number:	~~TD-BROACH-QTR1~~
Project Name:	TD-BROACH-QTR1
Project State:	WI
Sampled By (Print):	S. TIBER
Sampled By (Sign):	[signature]
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

FILTERED? (YES/NO): Y/N
PRESERVATION (CODE)*: Pick Letter: B

Analyses Requested: VOC

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	VOC	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	MW-15	03/14	11Am	GW	X			
002	CR-1	↓	↓	↓	X			
003	CR-2	↓	↓	↓	X			

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:
S. TIBER [signature]	03/14/19		
[signature]	3-15-19 0855	Susan K [signature] Pace	3-15-19 0855

PACE Project No. 40184238

Receipt Temp = ROT °C

Sample Receipt pH
OK / Adjusted

Cooler Custody Seal
Present / Not Present (circled)
Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 5430

Sample Preservation Receipt Form

Client Name: Enviro Audit Project # 40184238

All containers needing preservation have been checked and noted below: □Yes □No ☑N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

	Glass							Plastic							Vials						Jars			General							
Pace Lab #	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																		3															2.5 / 5 / 10
002																																	2.5 / 5 / 10
003																																	2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
008																																	2.5 / 5 / 10
009																																	2.5 / 5 / 10
010																																	2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes □No ☑N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

0945

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: **WO# : 40184238**

40184238

Client Name: Enviro Audits

Courier: ☐ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ Client ☐ Pace Other: _____

Tracking #: 1950031419

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 SR - N/A **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI /Corr: _____

Temp Blank Present: ☐ yes ☑ no **Biological Tissue is Frozen:** ☐ yes ☐ no

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

Person examining contents:
Date: 3-15-19
Initials: SW

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☐Yes ☑No ☐N/A	2. No Filter, Mail, Invoice 3-15-19 SW
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	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD:	☐Yes ☑No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☑Yes ☐No ☐N/A	12. One label in bubble bag for 3 vials 3-15-19 SW
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
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: for DR **Date:** 03/15/19

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

February 11, 2019

John Ruetz
Environmental Audits Inc
11327 W Lincoln Ave
West Allis, WI 53227

RE: Project: TD P3 CR
Pace Project No.: 40182870

Dear John Ruetz:
Enclosed are the analytical results for sample(s) received by the laboratory on February 07, 2019. 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: Ed Raymond, Environmental Audits, Inc
Steve Tiber, Environmental Audits Inc.
Stephanie Wagner, Environmental Audits, Inc.

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

CERTIFICATIONS

Project: TD P3 CR
Pace Project No.: 40182870

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

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

SAMPLE SUMMARY

Project: TD P3 CR
Pace Project No.: 40182870

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40182870001	**CR-3**	Water	02/05/19 00:00	02/07/19 09:05
40182870002	**CR-4**	Water	02/05/19 00:00	02/07/19 09:05
40182870003	**CR-5**	Water	02/05/19 00:00	02/07/19 09:05

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

SAMPLE ANALYTE COUNT

Project: TD P3 CR
Pace Project No.: 40182870

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40182870001	**CR-3**	EPA 8260	HNW	64
40182870002	**CR-4**	EPA 8260	HNW	64
40182870003	**CR-5**	EPA 8260	HNW	64

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Green Bay, WI 54302
(920)469-2436

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40182870

Sample: CR-3 **Lab ID: 40182870001** Collected: 02/05/19 00:00 Received: 02/07/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<269**	ug/L	1000	269	1000		02/08/19 16:44	630-20-6	
1,1,1-Trichloroethane	**12600**	ug/L	1000	245	1000		02/08/19 16:44	71-55-6	
1,1,2,2-Tetrachloroethane	**<275**	ug/L	1000	275	1000		02/08/19 16:44	79-34-5	
1,1,2-Trichloroethane	**<552**	ug/L	5000	552	1000		02/08/19 16:44	79-00-5	
1,1-Dichloroethane	**81800**	ug/L	1000	273	1000		02/08/19 16:44	75-34-3	
1,1-Dichloroethene	**2500**	ug/L	1000	245	1000		02/08/19 16:44	75-35-4	
1,1-Dichloropropene	**<540**	ug/L	1800	540	1000		02/08/19 16:44	563-58-6	
1,2,3-Trichlorobenzene	**<626**	ug/L	5000	626	1000		02/08/19 16:44	87-61-6	
1,2,3-Trichloropropane	**<591**	ug/L	5000	591	1000		02/08/19 16:44	96-18-4	
1,2,4-Trichlorobenzene	**<951**	ug/L	5000	951	1000		02/08/19 16:44	120-82-1	
1,2,4-Trimethylbenzene	**<841**	ug/L	2800	841	1000		02/08/19 16:44	95-63-6	
1,2-Dibromo-3-chloropropane	**<1760**	ug/L	5880	1760	1000		02/08/19 16:44	96-12-8	
1,2-Dibromoethane (EDB)	**<829**	ug/L	2760	829	1000		02/08/19 16:44	106-93-4	
1,2-Dichlorobenzene	**<705**	ug/L	2350	705	1000		02/08/19 16:44	95-50-1	
1,2-Dichloroethane	**<280**	ug/L	1000	280	1000		02/08/19 16:44	107-06-2	
1,2-Dichloropropane	**<283**	ug/L	1000	283	1000		02/08/19 16:44	78-87-5	
1,3,5-Trimethylbenzene	**<873**	ug/L	2910	873	1000		02/08/19 16:44	108-67-8	
1,3-Dichlorobenzene	**<628**	ug/L	2090	628	1000		02/08/19 16:44	541-73-1	
1,3-Dichloropropane	**<826**	ug/L	2750	826	1000		02/08/19 16:44	142-28-9	
1,4-Dichlorobenzene	**<944**	ug/L	3150	944	1000		02/08/19 16:44	106-46-7	
2,2-Dichloropropane	**<2270**	ug/L	7550	2270	1000		02/08/19 16:44	594-20-7	
2-Chlorotoluene	**<926**	ug/L	5000	926	1000		02/08/19 16:44	95-49-8	
4-Chlorotoluene	**<756**	ug/L	2520	756	1000		02/08/19 16:44	106-43-4	
Benzene	**<246**	ug/L	1000	246	1000		02/08/19 16:44	71-43-2	
Bromobenzene	**<241**	ug/L	1000	241	1000		02/08/19 16:44	108-86-1	
Bromochloromethane	**<362**	ug/L	5000	362	1000		02/08/19 16:44	74-97-5	
Bromodichloromethane	**<364**	ug/L	1210	364	1000		02/08/19 16:44	75-27-4	
Bromoform	**<3970**	ug/L	13200	3970	1000		02/08/19 16:44	75-25-2	
Bromomethane	**<971**	ug/L	5000	971	1000		02/08/19 16:44	74-83-9	
Carbon tetrachloride	**<166**	ug/L	1000	166	1000		02/08/19 16:44	56-23-5	
Chlorobenzene	**<711**	ug/L	2370	711	1000		02/08/19 16:44	108-90-7	
Chloroethane	**72600**	ug/L	5000	1340	1000		02/08/19 16:44	75-00-3	
Chloroform	**<1270**	ug/L	5000	1270	1000		02/08/19 16:44	67-66-3	
Chloromethane	**<2190**	ug/L	7300	2190	1000		02/08/19 16:44	74-87-3	
Dibromochloromethane	**<2600**	ug/L	8670	2600	1000		02/08/19 16:44	124-48-1	
Dibromomethane	**<937**	ug/L	3120	937	1000		02/08/19 16:44	74-95-3	
Dichlorodifluoromethane	**<500**	ug/L	5000	500	1000		02/08/19 16:44	75-71-8	
Diisopropyl ether	**<1890**	ug/L	6290	1890	1000		02/08/19 16:44	108-20-3	
Ethylbenzene	**<218**	ug/L	1000	218	1000		02/08/19 16:44	100-41-4	
Hexachloro-1,3-butadiene	**<1180**	ug/L	5000	1180	1000		02/08/19 16:44	87-68-3	
Isopropylbenzene (Cumene)	**<393**	ug/L	5000	393	1000		02/08/19 16:44	98-82-8	
Methyl-tert-butyl ether	**<1250**	ug/L	4150	1250	1000		02/08/19 16:44	1634-04-4	
Methylene Chloride	**<581**	ug/L	5000	581	1000		02/08/19 16:44	75-09-2	
Naphthalene	**<1180**	ug/L	5000	1180	1000		02/08/19 16:44	91-20-3	
Styrene	**<465**	ug/L	1550	465	1000		02/08/19 16:44	100-42-5	
Tetrachloroethene	**<326**	ug/L	1090	326	1000		02/08/19 16:44	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40182870

Sample: CR-3 **Lab ID: 40182870001** Collected: 02/05/19 00:00 Received: 02/07/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<172**	ug/L	5000	172	1000		02/08/19 16:44	108-88-3	
Trichloroethene	**<255**	ug/L	1000	255	1000		02/08/19 16:44	79-01-6	
Trichlorofluoromethane	**<215**	ug/L	1000	215	1000		02/08/19 16:44	75-69-4	
Vinyl chloride	**6090**	ug/L	1000	175	1000		02/08/19 16:44	75-01-4	
cis-1,2-Dichloroethene	**<271**	ug/L	1000	271	1000		02/08/19 16:44	156-59-2	
cis-1,3-Dichloropropene	**<3630**	ug/L	12100	3630	1000		02/08/19 16:44	10061-01-5	
m&p-Xylene	**<465**	ug/L	2000	465	1000		02/08/19 16:44	179601-23-1	
n-Butylbenzene	**<708**	ug/L	2360	708	1000		02/08/19 16:44	104-51-8	
n-Propylbenzene	**<811**	ug/L	5000	811	1000		02/08/19 16:44	103-65-1	
o-Xylene	**<262**	ug/L	1000	262	1000		02/08/19 16:44	95-47-6	
p-Isopropyltoluene	**<800**	ug/L	2670	800	1000		02/08/19 16:44	99-87-6	
sec-Butylbenzene	**<849**	ug/L	5000	849	1000		02/08/19 16:44	135-98-8	
tert-Butylbenzene	**<304**	ug/L	1010	304	1000		02/08/19 16:44	98-06-6	
trans-1,2-Dichloroethene	**<1090**	ug/L	3640	1090	1000		02/08/19 16:44	156-60-5	
trans-1,3-Dichloropropene	**<4370**	ug/L	14600	4370	1000		02/08/19 16:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1000		02/08/19 16:44	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1000		02/08/19 16:44	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1000		02/08/19 16:44	2037-26-5	

Sample: CR-4 **Lab ID: 40182870002** Collected: 02/05/19 00:00 Received: 02/07/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		02/08/19 11:45	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/08/19 11:45	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		02/08/19 11:45	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		02/08/19 11:45	79-00-5	
1,1-Dichloroethane	**0.94J**	ug/L	1.0	0.27	1		02/08/19 11:45	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		02/08/19 11:45	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		02/08/19 11:45	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		02/08/19 11:45	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		02/08/19 11:45	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		02/08/19 11:45	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		02/08/19 11:45	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		02/08/19 11:45	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		02/08/19 11:45	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		02/08/19 11:45	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		02/08/19 11:45	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		02/08/19 11:45	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		02/08/19 11:45	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		02/08/19 11:45	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		02/08/19 11:45	142-28-9	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40182870

Sample: CR-4 **Lab ID: 40182870002** Collected: 02/05/19 00:00 Received: 02/07/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		02/08/19 11:45	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		02/08/19 11:45	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		02/08/19 11:45	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		02/08/19 11:45	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		02/08/19 11:45	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		02/08/19 11:45	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		02/08/19 11:45	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		02/08/19 11:45	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		02/08/19 11:45	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		02/08/19 11:45	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		02/08/19 11:45	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		02/08/19 11:45	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		02/08/19 11:45	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		02/08/19 11:45	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		02/08/19 11:45	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		02/08/19 11:45	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		02/08/19 11:45	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		02/08/19 11:45	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		02/08/19 11:45	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		02/08/19 11:45	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		02/08/19 11:45	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		02/08/19 11:45	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		02/08/19 11:45	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		02/08/19 11:45	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		02/08/19 11:45	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		02/08/19 11:45	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		02/08/19 11:45	127-18-4	
Toluene	**<0.17**	ug/L	5.0	0.17	1		02/08/19 11:45	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/08/19 11:45	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		02/08/19 11:45	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		02/08/19 11:45	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		02/08/19 11:45	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		02/08/19 11:45	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		02/08/19 11:45	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		02/08/19 11:45	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		02/08/19 11:45	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		02/08/19 11:45	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		02/08/19 11:45	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		02/08/19 11:45	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		02/08/19 11:45	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		02/08/19 11:45	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		02/08/19 11:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		02/08/19 11:45	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		02/08/19 11:45	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		02/08/19 11:45	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: TD P3 CR
Pace Project No.: 40182870

Sample: CR-5 **Lab ID: 40182870003** Collected: 02/05/19 00:00 Received: 02/07/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.27**	ug/L	1.0	0.27	1		02/08/19 12:07	630-20-6	
1,1,1-Trichloroethane	**<0.24**	ug/L	1.0	0.24	1		02/08/19 12:07	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.28**	ug/L	1.0	0.28	1		02/08/19 12:07	79-34-5	
1,1,2-Trichloroethane	**<0.55**	ug/L	5.0	0.55	1		02/08/19 12:07	79-00-5	
1,1-Dichloroethane	**<0.27**	ug/L	1.0	0.27	1		02/08/19 12:07	75-34-3	
1,1-Dichloroethene	**<0.24**	ug/L	1.0	0.24	1		02/08/19 12:07	75-35-4	
1,1-Dichloropropene	**<0.54**	ug/L	1.8	0.54	1		02/08/19 12:07	563-58-6	
1,2,3-Trichlorobenzene	**<0.63**	ug/L	5.0	0.63	1		02/08/19 12:07	87-61-6	
1,2,3-Trichloropropane	**<0.59**	ug/L	5.0	0.59	1		02/08/19 12:07	96-18-4	
1,2,4-Trichlorobenzene	**<0.95**	ug/L	5.0	0.95	1		02/08/19 12:07	120-82-1	
1,2,4-Trimethylbenzene	**<0.84**	ug/L	2.8	0.84	1		02/08/19 12:07	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.8**	ug/L	5.9	1.8	1		02/08/19 12:07	96-12-8	
1,2-Dibromoethane (EDB)	**<0.83**	ug/L	2.8	0.83	1		02/08/19 12:07	106-93-4	
1,2-Dichlorobenzene	**<0.71**	ug/L	2.4	0.71	1		02/08/19 12:07	95-50-1	
1,2-Dichloroethane	**<0.28**	ug/L	1.0	0.28	1		02/08/19 12:07	107-06-2	
1,2-Dichloropropane	**<0.28**	ug/L	1.0	0.28	1		02/08/19 12:07	78-87-5	
1,3,5-Trimethylbenzene	**<0.87**	ug/L	2.9	0.87	1		02/08/19 12:07	108-67-8	
1,3-Dichlorobenzene	**<0.63**	ug/L	2.1	0.63	1		02/08/19 12:07	541-73-1	
1,3-Dichloropropane	**<0.83**	ug/L	2.8	0.83	1		02/08/19 12:07	142-28-9	
1,4-Dichlorobenzene	**<0.94**	ug/L	3.1	0.94	1		02/08/19 12:07	106-46-7	
2,2-Dichloropropane	**<2.3**	ug/L	7.6	2.3	1		02/08/19 12:07	594-20-7	
2-Chlorotoluene	**<0.93**	ug/L	5.0	0.93	1		02/08/19 12:07	95-49-8	
4-Chlorotoluene	**<0.76**	ug/L	2.5	0.76	1		02/08/19 12:07	106-43-4	
Benzene	**<0.25**	ug/L	1.0	0.25	1		02/08/19 12:07	71-43-2	
Bromobenzene	**<0.24**	ug/L	1.0	0.24	1		02/08/19 12:07	108-86-1	
Bromochloromethane	**<0.36**	ug/L	5.0	0.36	1		02/08/19 12:07	74-97-5	
Bromodichloromethane	**<0.36**	ug/L	1.2	0.36	1		02/08/19 12:07	75-27-4	
Bromoform	**<4.0**	ug/L	13.2	4.0	1		02/08/19 12:07	75-25-2	
Bromomethane	**<0.97**	ug/L	5.0	0.97	1		02/08/19 12:07	74-83-9	
Carbon tetrachloride	**<0.17**	ug/L	1.0	0.17	1		02/08/19 12:07	56-23-5	
Chlorobenzene	**<0.71**	ug/L	2.4	0.71	1		02/08/19 12:07	108-90-7	
Chloroethane	**<1.3**	ug/L	5.0	1.3	1		02/08/19 12:07	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		02/08/19 12:07	67-66-3	
Chloromethane	**<2.2**	ug/L	7.3	2.2	1		02/08/19 12:07	74-87-3	
Dibromochloromethane	**<2.6**	ug/L	8.7	2.6	1		02/08/19 12:07	124-48-1	
Dibromomethane	**<0.94**	ug/L	3.1	0.94	1		02/08/19 12:07	74-95-3	
Dichlorodifluoromethane	**<0.50**	ug/L	5.0	0.50	1		02/08/19 12:07	75-71-8	
Diisopropyl ether	**<1.9**	ug/L	6.3	1.9	1		02/08/19 12:07	108-20-3	
Ethylbenzene	**<0.22**	ug/L	1.0	0.22	1		02/08/19 12:07	100-41-4	
Hexachloro-1,3-butadiene	**<1.2**	ug/L	5.0	1.2	1		02/08/19 12:07	87-68-3	
Isopropylbenzene (Cumene)	**<0.39**	ug/L	5.0	0.39	1		02/08/19 12:07	98-82-8	
Methyl-tert-butyl ether	**<1.2**	ug/L	4.2	1.2	1		02/08/19 12:07	1634-04-4	
Methylene Chloride	**<0.58**	ug/L	5.0	0.58	1		02/08/19 12:07	75-09-2	
Naphthalene	**<1.2**	ug/L	5.0	1.2	1		02/08/19 12:07	91-20-3	
Styrene	**<0.47**	ug/L	1.6	0.47	1		02/08/19 12:07	100-42-5	
Tetrachloroethene	**<0.33**	ug/L	1.1	0.33	1		02/08/19 12:07	127-18-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: TD P3 CR
Pace Project No.: 40182870

Sample: CR-5 **Lab ID: 40182870003** Collected: 02/05/19 00:00 Received: 02/07/19 09:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Toluene	**<0.17**	ug/L	5.0	0.17	1		02/08/19 12:07	108-88-3	
Trichloroethene	**<0.26**	ug/L	1.0	0.26	1		02/08/19 12:07	79-01-6	
Trichlorofluoromethane	**<0.21**	ug/L	1.0	0.21	1		02/08/19 12:07	75-69-4	
Vinyl chloride	**<0.17**	ug/L	1.0	0.17	1		02/08/19 12:07	75-01-4	
cis-1,2-Dichloroethene	**<0.27**	ug/L	1.0	0.27	1		02/08/19 12:07	156-59-2	
cis-1,3-Dichloropropene	**<3.6**	ug/L	12.1	3.6	1		02/08/19 12:07	10061-01-5	
m&p-Xylene	**<0.47**	ug/L	2.0	0.47	1		02/08/19 12:07	179601-23-1	
n-Butylbenzene	**<0.71**	ug/L	2.4	0.71	1		02/08/19 12:07	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	5.0	0.81	1		02/08/19 12:07	103-65-1	
o-Xylene	**<0.26**	ug/L	1.0	0.26	1		02/08/19 12:07	95-47-6	
p-Isopropyltoluene	**<0.80**	ug/L	2.7	0.80	1		02/08/19 12:07	99-87-6	
sec-Butylbenzene	**<0.85**	ug/L	5.0	0.85	1		02/08/19 12:07	135-98-8	
tert-Butylbenzene	**<0.30**	ug/L	1.0	0.30	1		02/08/19 12:07	98-06-6	
trans-1,2-Dichloroethene	**<1.1**	ug/L	3.6	1.1	1		02/08/19 12:07	156-60-5	
trans-1,3-Dichloropropene	**<4.4**	ug/L	14.6	4.4	1		02/08/19 12:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		1		02/08/19 12:07	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		02/08/19 12:07	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		02/08/19 12:07	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: TD P3 CR
Pace Project No.: 40182870

QC Batch: 313108 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40182870001, 40182870002, 40182870003

METHOD BLANK: 1824047 Matrix: Water
Associated Lab Samples: 40182870001, 40182870002, 40182870003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	02/08/19 08:33	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	02/08/19 08:33	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	02/08/19 08:33	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	02/08/19 08:33	
1,1-Dichloroethane	ug/L	<0.27	1.0	02/08/19 08:33	
1,1-Dichloroethene	ug/L	<0.24	1.0	02/08/19 08:33	
1,1-Dichloropropene	ug/L	<0.54	1.8	02/08/19 08:33	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	02/08/19 08:33	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	02/08/19 08:33	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	02/08/19 08:33	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	02/08/19 08:33	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	02/08/19 08:33	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	02/08/19 08:33	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	02/08/19 08:33	
1,2-Dichloroethane	ug/L	<0.28	1.0	02/08/19 08:33	
1,2-Dichloropropane	ug/L	<0.28	1.0	02/08/19 08:33	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	02/08/19 08:33	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	02/08/19 08:33	
1,3-Dichloropropane	ug/L	<0.83	2.8	02/08/19 08:33	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	02/08/19 08:33	
2,2-Dichloropropane	ug/L	<2.3	7.6	02/08/19 08:33	
2-Chlorotoluene	ug/L	<0.93	5.0	02/08/19 08:33	
4-Chlorotoluene	ug/L	<0.76	2.5	02/08/19 08:33	
Benzene	ug/L	<0.25	1.0	02/08/19 08:33	
Bromobenzene	ug/L	<0.24	1.0	02/08/19 08:33	
Bromochloromethane	ug/L	<0.36	5.0	02/08/19 08:33	
Bromodichloromethane	ug/L	<0.36	1.2	02/08/19 08:33	
Bromoform	ug/L	<4.0	13.2	02/08/19 08:33	
Bromomethane	ug/L	<0.97	5.0	02/08/19 08:33	
Carbon tetrachloride	ug/L	<0.17	1.0	02/08/19 08:33	
Chlorobenzene	ug/L	<0.71	2.4	02/08/19 08:33	
Chloroethane	ug/L	<1.3	5.0	02/08/19 08:33	
Chloroform	ug/L	<1.3	5.0	02/08/19 08:33	
Chloromethane	ug/L	<2.2	7.3	02/08/19 08:33	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	02/08/19 08:33	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	02/08/19 08:33	
Dibromochloromethane	ug/L	<2.6	8.7	02/08/19 08:33	
Dibromomethane	ug/L	<0.94	3.1	02/08/19 08:33	
Dichlorodifluoromethane	ug/L	<0.50	5.0	02/08/19 08:33	
Diisopropyl ether	ug/L	<1.9	6.3	02/08/19 08:33	
Ethylbenzene	ug/L	<0.22	1.0	02/08/19 08:33	

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: TD P3 CR
Pace Project No.: 40182870

METHOD BLANK: 1824047 Matrix: Water
Associated Lab Samples: 40182870001, 40182870002, 40182870003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	02/08/19 08:33	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	02/08/19 08:33	
m&p-Xylene	ug/L	<0.47	2.0	02/08/19 08:33	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	02/08/19 08:33	
Methylene Chloride	ug/L	<0.58	5.0	02/08/19 08:33	
n-Butylbenzene	ug/L	<0.71	2.4	02/08/19 08:33	
n-Propylbenzene	ug/L	<0.81	5.0	02/08/19 08:33	
Naphthalene	ug/L	<1.2	5.0	02/08/19 08:33	
o-Xylene	ug/L	<0.26	1.0	02/08/19 08:33	
p-Isopropyltoluene	ug/L	<0.80	2.7	02/08/19 08:33	
sec-Butylbenzene	ug/L	<0.85	5.0	02/08/19 08:33	
Styrene	ug/L	<0.47	1.6	02/08/19 08:33	
tert-Butylbenzene	ug/L	<0.30	1.0	02/08/19 08:33	
Tetrachloroethene	ug/L	<0.33	1.1	02/08/19 08:33	
Toluene	ug/L	<0.17	5.0	02/08/19 08:33	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	02/08/19 08:33	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	02/08/19 08:33	
Trichloroethene	ug/L	<0.26	1.0	02/08/19 08:33	
Trichlorofluoromethane	ug/L	<0.21	1.0	02/08/19 08:33	
Vinyl chloride	ug/L	<0.17	1.0	02/08/19 08:33	
4-Bromofluorobenzene (S)	%	94	70-130	02/08/19 08:33	
Dibromofluoromethane (S)	%	106	70-130	02/08/19 08:33	
Toluene-d8 (S)	%	105	70-130	02/08/19 08:33	

LABORATORY CONTROL SAMPLE: 1824048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	50.7	101	70-133	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	67-130	
1,1,2-Trichloroethane	ug/L	50	57.3	115	70-130	
1,1-Dichloroethane	ug/L	50	60.6	121	70-134	
1,1-Dichloroethene	ug/L	50	43.9	88	75-132	
1,2,4-Trichlorobenzene	ug/L	50	47.6	95	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	40.4	81	60-126	
1,2-Dibromoethane (EDB)	ug/L	50	48.1	96	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	55.4	111	73-134	
1,2-Dichloropropane	ug/L	50	63.4	127	79-128	
1,3-Dichlorobenzene	ug/L	50	48.4	97	70-130	
1,4-Dichlorobenzene	ug/L	50	52.2	104	70-130	
Benzene	ug/L	50	54.5	109	69-137	
Bromodichloromethane	ug/L	50	58.3	117	70-130	
Bromoform	ug/L	50	53.8	108	64-133	
Bromomethane	ug/L	50	28.5	57	29-123	

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: TD P3 CR
Pace Project No.: 40182870

LABORATORY CONTROL SAMPLE: 1824048

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	52.3	105	73-142	
Chlorobenzene	ug/L	50	55.8	112	70-130	
Chloroethane	ug/L	50	43.9	88	59-133	
Chloroform	ug/L	50	54.7	109	80-129	
Chloromethane	ug/L	50	28.0	56	27-125	
cis-1,2-Dichloroethene	ug/L	50	55.6	111	70-134	
cis-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Dibromochloromethane	ug/L	50	50.2	100	70-130	
Dichlorodifluoromethane	ug/L	50	19.6	39	12-127	
Ethylbenzene	ug/L	50	59.8	120	86-127	
Isopropylbenzene (Cumene)	ug/L	50	56.5	113	70-130	
m&p-Xylene	ug/L	100	118	118	70-131	
Methyl-tert-butyl ether	ug/L	50	40.6	81	65-136	
Methylene Chloride	ug/L	50	55.7	111	72-133	
o-Xylene	ug/L	50	55.2	110	70-130	
Styrene	ug/L	50	56.4	113	70-130	
Tetrachloroethene	ug/L	50	57.8	116	70-130	
Toluene	ug/L	50	59.2	118	84-124	
trans-1,2-Dichloroethene	ug/L	50	57.4	115	70-133	
trans-1,3-Dichloropropene	ug/L	50	50.3	101	67-130	
Trichloroethene	ug/L	50	58.2	116	70-130	
Trichlorofluoromethane	ug/L	50	49.9	100	69-147	
Vinyl chloride	ug/L	50	36.5	73	48-134	
4-Bromofluorobenzene (S)	%			112	70-130	
Dibromofluoromethane (S)	%			98	70-130	
Toluene-d8 (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1824098 1824099

Parameter	Units	40182870002 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	<0.24	50	50	49.1	49.9	98	100	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	48.3	50.0	97	100	67-133	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	55.4	57.7	111	115	70-130	4	20	
1,1-Dichloroethane	ug/L	0.94J	50	50	58.7	60.1	116	118	70-139	2	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	46.7	43.7	93	87	72-137	7	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	45.5	46.9	91	94	68-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.6	44.3	85	89	60-130	4	21	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.6	49.3	95	99	70-130	3	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.8	48.6	96	97	70-130	2	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	54.1	53.6	108	107	71-137	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	60.1	62.0	120	124	78-130	3	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	46.8	47.4	94	95	70-130	1	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.0	50.9	100	102	70-130	2	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: TD P3 CR
Pace Project No.: 40182870

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1824098 1824099

Parameter	Units	40182870002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	<0.25	50	50	52.7	54.1	105	108	66-143	3	20	
Bromodichloromethane	ug/L	<0.36	50	50	56.2	57.4	112	115	70-130	2	20	
Bromoform	ug/L	<4.0	50	50	53.5	55.0	107	110	64-134	3	20	
Bromomethane	ug/L	<0.97	50	50	32.5	30.4	65	61	29-136	7	25	
Carbon tetrachloride	ug/L	<0.17	50	50	50.7	51.6	101	103	73-142	2	20	
Chlorobenzene	ug/L	<0.71	50	50	53.6	54.8	107	110	70-130	2	20	
Chloroethane	ug/L	<1.3	50	50	45.3	43.7	91	87	58-138	4	20	
Chloroform	ug/L	<1.3	50	50	53.1	53.7	106	107	80-131	1	20	
Chloromethane	ug/L	<2.2	50	50	27.9	27.7	56	55	24-125	1	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	54.1	55.3	108	111	68-137	2	22	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.3	50.9	99	102	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	48.7	50.3	97	101	70-131	3	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	18.9	18.8	38	38	10-127	1	20	
Ethylbenzene	ug/L	<0.22	50	50	57.4	58.7	115	117	81-136	2	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	53.4	54.6	107	109	70-132	2	20	
m&p-Xylene	ug/L	<0.47	100	100	114	115	114	115	70-135	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	39.9	42.0	80	84	58-142	5	23	
Methylene Chloride	ug/L	<0.58	50	50	55.9	58.2	112	116	69-137	4	20	
o-Xylene	ug/L	<0.26	50	50	52.8	54.2	106	108	70-132	3	20	
Styrene	ug/L	<0.47	50	50	53.8	54.9	108	110	70-130	2	20	
Tetrachloroethene	ug/L	<0.33	50	50	55.0	55.5	110	111	70-132	1	20	
Toluene	ug/L	<0.17	50	50	57.2	57.8	114	116	81-130	1	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	55.1	57.1	110	114	70-136	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	49.5	51.1	99	102	67-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	56.3	57.9	113	116	70-131	3	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	52.1	49.0	104	98	66-150	6	20	
Vinyl chloride	ug/L	<0.17	50	50	38.6	36.6	77	73	46-134	6	20	
4-Bromofluorobenzene (S)	%						112	111	70-130			
Dibromofluoromethane (S)	%						100	100	70-130			
Toluene-d8 (S)	%						107	108	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: TD P3 CR
Pace Project No.: 40182870

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, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

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.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: TD P3 CR
Pace Project No.: 40182870

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40182870001	**CR-3**	EPA 8260	313108		
40182870002	**CR-4**	EPA 8260	313108		
40182870003	**CR-5**	EPA 8260	313108		

Pace Analytical™
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

40182870

Page: 1 of 1

Section A Required Client Information:

Company:	Environmental Audits Inc.
Address:	11327 W Lincoln Avenue
	West Allis Wi 53051
Email To:	john@environmentalaudits.net
Phone: 414-226-5563	Fax:
Requested Due Date/TAT:	

Section B Required Project Information:

Report To:	jrruetz@yahoo.com;
Copy To:	eeriii@wi.rr.com; john@environmentalaudits.net
	steph@environmentalaudits.net
Purchase Order No.:	Verbal
Project Name:	TD P3 CR
Project Number:	

Section C Invoice Information:

Attention:	John Ruetz
Company Name:	Environmental Audits Inc.
Address:	11327 W Lincoln Avenue
Pace Quote Reference:	
Pace Project Manager:	
Pace Profile #:	

REGULATORY AGENCY

☐ NPDES ☑ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: WI

Section D Required Client Information

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

Valid Matrix Codes

MATRIX	CODE
DRINKING WATER	DW
WATER	WT
WASTE WATER	WW
PRODUCT	P
SOIL/SOLID	SL
OIL	OL
WIPE	WP
AIR	AR
OTHER	OT
TISSUE	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test Y/N	Analysis Test: VOC	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
																		Y/N	N		
1	CR-3	GW	G	2/5/19					3				x						3		001
2	CR-4	GW	G	2/5/19					3				x						3		002
3	CR-5	GW	G	2/5/19					3				x						3		003
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS: Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Stephanie Wagner	2/5/19		Mary Farin	2/6/19	1140				
	Mary Farin	2/6/19	1430							
	CS LOGISTICS	2/7/19	0905	Jason McMahon	2/7/19	0905	4°C	Y	Y	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Stephanie Wagner

SIGNATURE of SAMPLER: [signature]

DATE Signed (MM/DD/YY): 2/5/19

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical Services, LL
1241 Bellevue Street, Suite
Green Bay, WI 5430

Sample Preservation Receipt Form

Client Name: ENVIRONMENTAL AUDITS Project # 40182870

All containers needing preservation have been checked and noted below: □Yes □No ☒N/A

Lab Lot# of pH paper: Lab Std #ID of preservation (if pH adjusted): Initial when completed: Date/ Time:

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																		3															2.5 / 5 / 10
002																		3															2.5 / 5 / 10
003																		3															2.5 / 5 / 10
004																																	2.5 / 5 / 10
005																																	2.5 / 5 / 10
006																																	2.5 / 5 / 10
007																																	2.5 / 5 / 10
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014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____ Headspace in VOA Vials (>6mm) : □Yes ☒No □N/A ***If yes look in headspace column**

AG1U	1 liter amber glass	BP1U	1 liter plastic unpres	DG9A	40 mL amber ascorbic	JGFU	4 oz amber jar unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3	DG9T	40 mL amber Na Thio	WGFU	4 oz clear jar unpres
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact	VG9U	40 mL clear vial unpres	WPFU	4 oz plastic jar unpres
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres	VG9H	40 mL clear vial HCL		
AG5U	100 mL amber glass unpres	BP3C	250 mL plastic NaOH	VG9M	40 mL clear vial MeOH	SP5T	120 mL plastic Na Thiosulfate
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3	VG9D	40 mL clear vial DI	ZPLC	ziploc bag
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4			GN:	

Pace Analytical™ 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40182870

Client Name: ENVIRONMENTAL AUDITS

Courier: ☑ CS Logistics ☐ Fed Ex ☐ Speedee ☐ UPS ☐ Waltco ☐ 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 SR - N/A **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: 2.1 /Corr: _____

Temp Blank Present: ☐ yes ☒ no **Biological Tissue is Frozen:** ☐ yes ☐ no

Person examining contents: Date: 2/7/19 Initials: JM

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

Chain of Custody Present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody Filled Out:	☐ Yes ☑ No ☐ N/A	2. no collect times JM 2/7/19
Chain of Custody Relinquished:	☒ Yes ☐ No ☐ N/A	3. no time JM 2/7/19
Sampler Name & Signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples Arrived within Hold Time:	☒ Yes ☐ No	5.
- VOA Samples frozen upon receipt	☐ Yes ☐ No	Date/Time:
Short Hold Time Analysis (<72hr):	☐ Yes ☒ No	6.
Rush Turn Around Time Requested:	☐ Yes ☑ No	7.
Sufficient Volume: For Analysis: ☒ Yes ☐ No MS/MSD: ☐ Yes ☒ No ☐ N/A		8.
Correct Containers Used:	☑ Yes ☐ No	9.
-Pace Containers Used:	☒ Yes ☐ No ☐ N/A	
-Pace IR Containers Used:	☐ Yes ☐ No ☒ N/A	
Containers Intact:	☑ Yes ☐ No	10.
Filtered volume received for Dissolved tests	☐ Yes ☐ No ☒ N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: W	☒ Yes ☐ No ☐ N/A	12.
Trip Blank Present:	☐ Yes ☐ No ☒ N/A	13.
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: [signature] **Date:** 2/20/19