Phase II Environmental Site Assessment

for

Property Located at

211 East Clark Street
Unity, Wisconsin
Marathon County

CWE Project # 42891200 002

Prepared for:

Safeguard Properties, LLC
Hazard Claims Department
7887 Safeguard Circle
Valley View, Ohio 44125

Prepared by:

CWE, Inc.
5707 Schofield Avenue
Weston, WI 54476
Phone: (715) 359-9400
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(generally associated with heavier petroleum compounds), and lead (commonly associated with leaded gasoline, batteries, or present as naturally-occurring in the environment).

The WDNR has established regulatory standards for most groundwater contaminants for the protection of human health and/or the environment. These levels are specified in ch. NR 140 Wis. Adm. Code, and are identified as the Preventive Action Limit (PAL) and the Enforcement Standard (ES). Groundwater concentrations that exceed the WDNR ES levels generally require WDNR notification and further investigation to assess the extent and degree of the groundwater contaminant plume.

The laboratory data (Appendix C) indicates that none of the three groundwater samples contained any exceedances for VOCs or PAHs. However, all three of the groundwater samples did exceed the Enforcement Standard level for lead (the PAL for lead is 1.5 ug/L and the ES is 15 ug/L). Detections of lead in the water samples included concentrations of 146 ug/L (GP-3), 16.5 ug/L (GP-5), and 51.1 ug/L (GP-6). A summary of the groundwater chemistry data is presented in Table 2 below.

Table 2 – Groundwater Sampling Data

Sample ID	Sample Depth	Lead	VOCs	PAHs
GP-3W	24-28'	146 ug/L	*	No Detect
GP-5W	28-32'	16.5 ug/L	No Detect	N/A
GP-5W	26-30'	51.1 ug/L	No Detect	N/A

Notes:
Sample Depth corresponds to "screened interval" for groundwater sample collection

ug/L	micrograms per Liter (equivalent to parts per billion)
VOCs	Volatile Organic Compounds (* None of the compounds detected exceeded its respective PAL)
PAHs	Polynuclear Aromatic Hydrocarbons
PCE	Tetrachloroethene (a chlorinated compound) The ch. NR 140 PAL for PCE is 0.5 ug/L and ES is 5 ug/L
Lead	The PAL for lead in groundwater is 1.5 ug/L and the ES is 15 ug/L
Bold	Detection signifies a ch. NR 140 PAL exceedance
Italics	Detection signifies a ch. NR 140 ES exceedance
N/A	Not Applicable or Not Sampled

4.6 Private Well Data

The laboratory results for the on-site private well (Appendix C) indicate that several compounds were detected at levels that exceed the PAL. They include tetrachloroethene (aka perchloroethylene or PCE) and lead. Both compounds were detected at levels above the PAL, but less than their respective ES level. The other compounds analyzed (including VOCs, PAHs, nitrates, ammonia, or pesticides) were either not detected above laboratory detection limits, at concentrations below the regulatory standards, and/or not currently regulated by the WDNR.

The compound PCE was detected at a concentration of 4.1 ug/L (parts per billion). The regulatory standards for this chlorinated compound (i.e. PCE) are 0.5 ug/L for the PAL, and 5 ug/L for the ES. Thus, the concentration of PCE is a PAL exceedance. Likewise, the lead detection of 5.5 ug/L in the private well sample is also a PAL exceedance (per drinking water standards, ch. NR 140 Wis. Adm. Code).

Table 3 – Private Well Sampling Data
(Well Cased to 200')

Compound^ (VOC OR PAH)	Lab Result (ug/L)	PAL	Es (ug/L)
Naphthalene	0.014 J	10	100
cis-1,2-Dichloroethene	0.41 J	7	70
Tetrachloroethene (PCE)	**4.1** J	0.5	5
Trichloroethene (TCE)	0.20J	0.5	5
Lead	**5.5J**	1.5	15

PCE Tetrachloroethene (a chlorinated compound) is also known as perchloroethene (PCE)
J Estimated concentration above the adjusted detection limit and below the adjusted reporting limit
Bold Detection signifies a ch. NR 140 PAL exceedance
Italics Detection signifies a ch. NR 140 ES exceedance
^ None of the other compounds analyzed were detected above the method detection limits –see the laboratory report for full analytical report

5.0 EVALUATION OF DATA

Soil Data

The field screening results did not reveal the presence of organic vapors in any of the soil samples; furthermore, none of the soil samples contained any unusual odors and/or staining. With the exception of lead, none of the soil samples contained any detectable concentrations of analyzed contaminants.

Lead was detected in several soil samples at concentrations ranging from 4.9 mg/Kg to 18 mg/Kg (ppm). The WDNR ch. NR 720 RCL for lead is 50 mg/Kg. Thus, none of the soil sample results exceeded the regulatory standard for lead within the soil.

Lead is often found to occur naturally within soils at various levels. Thus, the low levels of lead present within the upper 8 feet of soils may be attributed to naturally occurring lead within the soil; the low levels are not a significant concern at this site.

Groundwater Data

The groundwater chemistry data for GP-3W, GP-5W, and GP-6W, collected at depths between 28-32 feet below surface, contained Enforcement Standard exceedances for lead (the ES for lead in groundwater is 15 ug/L). The highest level of lead was detected in the groundwater sample for GP-3W, at 146 ug/L. No detectable concentrations of any VOCs or PAH compounds were reported for the groundwater samples.

Private Well Data

The presence of PCE above the PAL standard in the private well presents a concern, especially since the concentration of 4.1 ug/L is nearing the Enforcement Standard level of 5.0 ug/L. The chlorinated compound (tetrachloroethene) is a known carcinogen and may present a health risk.

Copies of the private well construction forms for the Subject Property and nearby properties are included in Appendix D. Based on the information provided on those forms, the private well to the north (directly across the street), was replaced as a result of contamination (neither the specific type of contaminant, nor the source were indicated).

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January 09, 2013

Brian Bailey
CWE, Inc.
5707 Schofield Avenue
Schofield, WI 54476

RE: Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Dear Brian Bailey:
Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Dan Milewsky

dan.milewsky@pacelabs.com
Project Manager

Enclosures

cc: Stephanie Finamore, CWE, Inc.

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CERTIFICATIONS

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 11888
North Carolina Certification #: 503
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
US Dept of Agriculture #: S-76505
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4072504001	PRIVATE WELL	Water	01/03/13 11:30	01/04/13 10:35

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SAMPLE ANALYTE COUNT

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4072504001	PRIVATE WELL	EPA 6010	DLB	1
		EPA 8260	SMT	64

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ANALYTICAL RESULTS

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Sample: PRIVATE WELL Lab ID: **4072504001** Collected: 01/03/13 11:30 Received: 01/04/13 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010								
Lead	**5.4J**	ug/L	7.5	1.4	1	01/07/13 10:00	01/08/13 13:23	7439-92-1	
8260 MSV	Analytical Method: EPA 8260								
1,1,1,2-Tetrachloroethane	**<0.92**	ug/L	1.0	0.92	1		01/08/13 15:30	630-20-6	
1,1,1-Trichloroethane	**<0.90**	ug/L	1.0	0.90	1		01/08/13 15:30	71-55-6	
1,1,2,2-Tetrachloroethane	**<0.20**	ug/L	1.0	0.20	1		01/08/13 15:30	79-34-5	
1,1,2-Trichloroethane	**<0.42**	ug/L	1.0	0.42	1		01/08/13 15:30	79-00-5	
1,1-Dichloroethane	**<0.75**	ug/L	1.0	0.75	1		01/08/13 15:30	75-34-3	
1,1-Dichloroethene	**<0.57**	ug/L	1.0	0.57	1		01/08/13 15:30	75-35-4	
1,1-Dichloropropene	**<0.75**	ug/L	1.0	0.75	1		01/08/13 15:30	563-58-6	
1,2,3-Trichlorobenzene	**<0.74**	ug/L	1.0	0.74	1		01/08/13 15:30	87-61-6	
1,2,3-Trichloropropane	**<0.99**	ug/L	1.0	0.99	1		01/08/13 15:30	96-18-4	
1,2,4-Trichlorobenzene	**<0.97**	ug/L	5.0	0.97	1		01/08/13 15:30	120-82-1	
1,2,4-Trimethylbenzene	**<0.97**	ug/L	1.0	0.97	1		01/08/13 15:30	95-63-6	
1,2-Dibromo-3-chloropropane	**<1.7**	ug/L	5.0	1.7	1		01/08/13 15:30	96-12-8	
1,2-Dibromoethane (EDB)	**<0.56**	ug/L	1.0	0.56	1		01/08/13 15:30	106-93-4	
1,2-Dichlorobenzene	**<0.83**	ug/L	1.0	0.83	1		01/08/13 15:30	95-50-1	
1,2-Dichloroethane	**<0.36**	ug/L	1.0	0.36	1		01/08/13 15:30	107-06-2	
1,2-Dichloropropane	**<0.49**	ug/L	1.0	0.49	1		01/08/13 15:30	78-87-5	
1,3,5-Trimethylbenzene	**<0.83**	ug/L	1.0	0.83	1		01/08/13 15:30	108-67-8	
1,3-Dichlorobenzene	**<0.87**	ug/L	1.0	0.87	1		01/08/13 15:30	541-73-1	
1,3-Dichloropropane	**<0.61**	ug/L	1.0	0.61	1		01/08/13 15:30	142-28-9	
1,4-Dichlorobenzene	**<0.95**	ug/L	1.0	0.95	1		01/08/13 15:30	106-46-7	
2,2-Dichloropropane	**<0.62**	ug/L	1.0	0.62	1		01/08/13 15:30	594-20-7	
2-Chlorotoluene	**<0.85**	ug/L	1.0	0.85	1		01/08/13 15:30	95-49-8	
4-Chlorotoluene	**<0.74**	ug/L	1.0	0.74	1		01/08/13 15:30	106-43-4	
Benzene	**<0.41**	ug/L	1.0	0.41	1		01/08/13 15:30	71-43-2	
Bromobenzene	**<0.82**	ug/L	1.0	0.82	1		01/08/13 15:30	108-86-1	
Bromochloromethane	**<0.97**	ug/L	1.0	0.97	1		01/08/13 15:30	74-97-5	
Bromodichloromethane	**<0.56**	ug/L	1.0	0.56	1		01/08/13 15:30	75-27-4	
Bromoform	**<0.94**	ug/L	1.0	0.94	1		01/08/13 15:30	75-25-2	
Bromomethane	**<0.91**	ug/L	1.0	0.91	1		01/08/13 15:30	74-83-9	
Carbon tetrachloride	**<0.49**	ug/L	1.0	0.49	1		01/08/13 15:30	56-23-5	
Chlorobenzene	**<0.41**	ug/L	1.0	0.41	1		01/08/13 15:30	108-90-7	
Chloroethane	**<0.97**	ug/L	1.0	0.97	1		01/08/13 15:30	75-00-3	
Chloroform	**<1.3**	ug/L	5.0	1.3	1		01/08/13 15:30	67-66-3	
Chloromethane	**<0.24**	ug/L	1.0	0.24	1		01/08/13 15:30	74-87-3	
Dibromochloromethane	**<0.81**	ug/L	1.0	0.81	1		01/08/13 15:30	124-48-1	
Dibromomethane	**<0.60**	ug/L	1.0	0.60	1		01/08/13 15:30	74-95-3	
Dichlorodifluoromethane	**<0.99**	ug/L	1.0	0.99	1		01/08/13 15:30	75-71-8	
Diisopropyl ether	**<0.76**	ug/L	1.0	0.76	1		01/08/13 15:30	108-20-3	
Ethylbenzene	**<0.54**	ug/L	1.0	0.54	1		01/08/13 15:30	100-41-4	
Hexachloro-1,3-butadiene	**<0.67**	ug/L	5.0	0.67	1		01/08/13 15:30	87-68-3	
Isopropylbenzene (Cumene)	**<0.59**	ug/L	1.0	0.59	1		01/08/13 15:30	98-82-8	
Methyl-tert-butyl ether	**<0.61**	ug/L	1.0	0.61	1		01/08/13 15:30	1634-04-4	
Methylene Chloride	**<0.43**	ug/L	1.0	0.43	1		01/08/13 15:30	75-09-2	

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ANALYTICAL RESULTS

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Sample: PRIVATE WELL **Lab ID: 4072504001** Collected: 01/03/13 11:30 Received: 01/04/13 10:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Naphthalene	**<0.89**	ug/L	5.0	0.89	1		01/08/13 15:30	91-20-3	
Styrene	**<0.86**	ug/L	1.0	0.86	1		01/08/13 15:30	100-42-5	
Tetrachloroethene	**3.3**	ug/L	1.0	0.45	1		01/08/13 15:30	127-18-4	
Toluene	**<0.67**	ug/L	1.0	0.67	1		01/08/13 15:30	108-88-3	
Trichloroethene	**<0.48**	ug/L	1.0	0.48	1		01/08/13 15:30	79-01-6	
Trichlorofluoromethane	**<0.79**	ug/L	1.0	0.79	1		01/08/13 15:30	75-69-4	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/08/13 15:30	75-01-4	
cis-1,2-Dichloroethene	**<0.83**	ug/L	1.0	0.83	1		01/08/13 15:30	156-59-2	
cis-1,3-Dichloropropene	**<0.20**	ug/L	1.0	0.20	1		01/08/13 15:30	10061-01-5	
m&p-Xylene	**<1.8**	ug/L	2.0	1.8	1		01/08/13 15:30	179601-23-1	
n-Butylbenzene	**<0.93**	ug/L	1.0	0.93	1		01/08/13 15:30	104-51-8	
n-Propylbenzene	**<0.81**	ug/L	1.0	0.81	1		01/08/13 15:30	103-65-1	
o-Xylene	**<0.83**	ug/L	1.0	0.83	1		01/08/13 15:30	95-47-6	
p-Isopropyltoluene	**<0.67**	ug/L	1.0	0.67	1		01/08/13 15:30	99-87-6	
sec-Butylbenzene	**<0.89**	ug/L	5.0	0.89	1		01/08/13 15:30	135-98-8	
tert-Butylbenzene	**<0.97**	ug/L	1.0	0.97	1		01/08/13 15:30	98-06-6	
trans-1,2-Dichloroethene	**<0.89**	ug/L	1.0	0.89	1		01/08/13 15:30	156-60-5	
trans-1,3-Dichloropropene	**<0.19**	ug/L	1.0	0.19	1		01/08/13 15:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	**78**	%.	43-137		1		01/08/13 15:30	460-00-4	
Dibromofluoromethane (S)	**89**	%.	70-130		1		01/08/13 15:30	1868-53-7	
Toluene-d8 (S)	**95**	%.	55-137		1		01/08/13 15:30	2037-26-5	

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QUALITY CONTROL DATA

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

QC Batch: MPRP/7995
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET
Associated Lab Samples: 4072504001

METHOD BLANK: 734532 Matrix: Water
Associated Lab Samples: 4072504001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Lead	ug/L	<1.4	7.5	01/08/13 12:58	

LABORATORY CONTROL SAMPLE: 734533

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Lead	ug/L	500	510	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 734534 734535

Parameter	Units	4072480004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Lead	ug/L	<1.4	500	500	502	499	100	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

QC Batch: MSV/18241 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 4072504001

METHOD BLANK: 734576 Matrix: Water
Associated Lab Samples: 4072504001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.92	1.0	01/08/13 07:59	
1,1,1-Trichloroethane	ug/L	<0.90	1.0	01/08/13 07:59	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	1.0	01/08/13 07:59	
1,1,2-Trichloroethane	ug/L	<0.42	1.0	01/08/13 07:59	
1,1-Dichloroethane	ug/L	<0.75	1.0	01/08/13 07:59	
1,1-Dichloroethene	ug/L	<0.57	1.0	01/08/13 07:59	
1,1-Dichloropropene	ug/L	<0.75	1.0	01/08/13 07:59	
1,2,3-Trichlorobenzene	ug/L	<0.74	1.0	01/08/13 07:59	
1,2,3-Trichloropropane	ug/L	<0.99	1.0	01/08/13 07:59	
1,2,4-Trichlorobenzene	ug/L	<0.97	5.0	01/08/13 07:59	
1,2,4-Trimethylbenzene	ug/L	<0.97	1.0	01/08/13 07:59	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	5.0	01/08/13 07:59	
1,2-Dibromoethane (EDB)	ug/L	<0.56	1.0	01/08/13 07:59	
1,2-Dichlorobenzene	ug/L	<0.83	1.0	01/08/13 07:59	
1,2-Dichloroethane	ug/L	<0.36	1.0	01/08/13 07:59	
1,2-Dichloropropane	ug/L	<0.49	1.0	01/08/13 07:59	
1,3,5-Trimethylbenzene	ug/L	<0.83	1.0	01/08/13 07:59	
1,3-Dichlorobenzene	ug/L	<0.87	1.0	01/08/13 07:59	
1,3-Dichloropropane	ug/L	<0.61	1.0	01/08/13 07:59	
1,4-Dichlorobenzene	ug/L	<0.95	1.0	01/08/13 07:59	
2,2-Dichloropropane	ug/L	<0.62	1.0	01/08/13 07:59	
2-Chlorotoluene	ug/L	<0.85	1.0	01/08/13 07:59	
4-Chlorotoluene	ug/L	<0.74	1.0	01/08/13 07:59	
Benzene	ug/L	<0.41	1.0	01/08/13 07:59	
Bromobenzene	ug/L	<0.82	1.0	01/08/13 07:59	
Bromochloromethane	ug/L	<0.97	1.0	01/08/13 07:59	
Bromodichloromethane	ug/L	<0.56	1.0	01/08/13 07:59	
Bromoform	ug/L	<0.94	1.0	01/08/13 07:59	
Bromomethane	ug/L	<0.91	1.0	01/08/13 07:59	
Carbon tetrachloride	ug/L	<0.49	1.0	01/08/13 07:59	
Chlorobenzene	ug/L	<0.41	1.0	01/08/13 07:59	
Chloroethane	ug/L	<0.97	1.0	01/08/13 07:59	
Chloroform	ug/L	<1.3	5.0	01/08/13 07:59	
Chloromethane	ug/L	<0.24	1.0	01/08/13 07:59	
cis-1,2-Dichloroethene	ug/L	<0.83	1.0	01/08/13 07:59	
cis-1,3-Dichloropropene	ug/L	<0.20	1.0	01/08/13 07:59	
Dibromochloromethane	ug/L	<0.81	1.0	01/08/13 07:59	
Dibromomethane	ug/L	<0.60	1.0	01/08/13 07:59	
Dichlorodifluoromethane	ug/L	<0.99	1.0	01/08/13 07:59	
Diisopropyl ether	ug/L	<0.76	1.0	01/08/13 07:59	
Ethylbenzene	ug/L	<0.54	1.0	01/08/13 07:59	
Hexachloro-1,3-butadiene	ug/L	<0.67	5.0	01/08/13 07:59	
Isopropylbenzene (Cumene)	ug/L	<0.59	1.0	01/08/13 07:59	

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QUALITY CONTROL DATA

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

METHOD BLANK: 734576 Matrix: Water

Associated Lab Samples: 4072504001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<1.8	2.0	01/08/13 07:59	
Methyl-tert-butyl ether	ug/L	<0.61	1.0	01/08/13 07:59	
Methylene Chloride	ug/L	<0.43	1.0	01/08/13 07:59	
n-Butylbenzene	ug/L	<0.93	1.0	01/08/13 07:59	
n-Propylbenzene	ug/L	<0.81	1.0	01/08/13 07:59	
Naphthalene	ug/L	<0.89	5.0	01/08/13 07:59	
o-Xylene	ug/L	<0.83	1.0	01/08/13 07:59	
p-Isopropyltoluene	ug/L	<0.67	1.0	01/08/13 07:59	
sec-Butylbenzene	ug/L	<0.89	5.0	01/08/13 07:59	
Styrene	ug/L	<0.86	1.0	01/08/13 07:59	
tert-Butylbenzene	ug/L	<0.97	1.0	01/08/13 07:59	
Tetrachloroethene	ug/L	<0.45	1.0	01/08/13 07:59	
Toluene	ug/L	<0.67	1.0	01/08/13 07:59	
trans-1,2-Dichloroethene	ug/L	<0.89	1.0	01/08/13 07:59	
trans-1,3-Dichloropropene	ug/L	<0.19	1.0	01/08/13 07:59	
Trichloroethene	ug/L	<0.48	1.0	01/08/13 07:59	
Trichlorofluoromethane	ug/L	<0.79	1.0	01/08/13 07:59	
Vinyl chloride	ug/L	<0.18	1.0	01/08/13 07:59	
4-Bromofluorobenzene (S)	%.	76	43-137	01/08/13 07:59	
Dibromofluoromethane (S)	%.	87	70-130	01/08/13 07:59	
Toluene-d8 (S)	%.	84	55-137	01/08/13 07:59	

LABORATORY CONTROL SAMPLE & LCSD: 734577 734578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.0	50.0	102	100	70-130	2	20	
1,1,1-Trichloroethane	ug/L	50	57.7	57.6	115	115	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	46.8	94	94	70-130	1	20	
1,1,2-Trichloroethane	ug/L	50	48.4	46.2	97	92	70-130	5	20	
1,1-Dichloroethane	ug/L	50	54.8	56.1	110	112	70-146	2	20	
1,1-Dichloroethene	ug/L	50	53.6	54.1	107	108	70-130	1	20	
1,1-Dichloropropene	ug/L	50	54.4	51.5	109	103	70-130	5	20	
1,2,3-Trichlorobenzene	ug/L	50	43.4	42.2	87	84	70-130	3	20	
1,2,3-Trichloropropane	ug/L	50	45.4	44.5	91	89	70-130	2	20	
1,2,4-Trichlorobenzene	ug/L	50	41.7	42.0	83	84	70-130	1	20	
1,2,4-Trimethylbenzene	ug/L	50	48.2	47.8	96	96	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	43.8	43.4	88	87	46-150	1	20	
1,2-Dibromoethane (EDB)	ug/L	50	49.3	48.2	99	96	70-130	2	20	
1,2-Dichlorobenzene	ug/L	50	50.7	49.7	101	99	70-130	2	20	
1,2-Dichloroethane	ug/L	50	53.3	53.8	107	108	70-144	1	20	
1,2-Dichloropropane	ug/L	50	53.9	53.0	108	106	70-136	2	20	
1,3,5-Trimethylbenzene	ug/L	50	49.6	49.7	99	99	70-130	0	20	
1,3-Dichlorobenzene	ug/L	50	50.0	49.4	100	99	70-130	1	20	
1,3-Dichloropropane	ug/L	50	50.2	48.3	100	97	70-130	4	20	
1,4-Dichlorobenzene	ug/L	50	45.8	44.9	92	90	70-130	2	20	

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

LABORATORY CONTROL SAMPLE & LCSD: 734577 734578

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
2,2-Dichloropropane	ug/L	50	57.2	57.7	114	115	70-130	1	20	
2-Chlorotoluene	ug/L	50	51.1	50.9	102	102	70-130	0	20	
4-Chlorotoluene	ug/L	50	48.2	49.3	96	99	70-130	2	20	
Benzene	ug/L	50	55.2	53.7	110	107	70-137	3	20	
Bromobenzene	ug/L	50	45.5	46.9	91	94	70-130	3	20	
Bromochloromethane	ug/L	50	55.6	56.2	111	112	70-130	1	20	
Bromodichloromethane	ug/L	50	55.0	54.7	110	109	70-133	1	20	
Bromoform	ug/L	50	48.7	47.8	97	96	59-130	2	20	
Bromomethane	ug/L	50	55.1	60.2	110	120	41-148	9	20	
Carbon tetrachloride	ug/L	50	57.2	56.4	114	113	70-154	1	20	
Chlorobenzene	ug/L	50	51.7	51.5	103	103	70-130	0	20	
Chloroethane	ug/L	50	55.1	54.1	110	108	70-139	2	20	
Chloroform	ug/L	50	56.2	55.2	112	110	70-130	2	20	
Chloromethane	ug/L	50	54.4	55.5	109	111	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	50	54.5	55.5	109	111	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	50	58.8	58.3	118	117	70-136	1	20	
Dibromochloromethane	ug/L	50	50.7	49.3	101	99	70-130	3	20	
Dibromomethane	ug/L	50	54.4	53.4	109	107	70-130	2	20	
Dichlorodifluoromethane	ug/L	50	54.9	55.5	110	111	20-157	1	20	
Diisopropyl ether	ug/L	50	55.5	57.7	111	115	70-130	4	20	
Ethylbenzene	ug/L	50	53.0	51.0	106	102	70-130	4	20	
Hexachloro-1,3-butadiene	ug/L	50	44.7	43.8	89	88	70-130	2	20	
Isopropylbenzene (Cumene)	ug/L	50	55.9	52.7	112	105	70-130	6	20	
m&p-Xylene	ug/L	100	107	103	107	103	70-130	4	20	
Methyl-tert-butyl ether	ug/L	50	51.7	51.5	103	103	59-141	0	20	
Methylene Chloride	ug/L	50	54.5	54.6	109	109	70-130	0	20	
n-Butylbenzene	ug/L	50	46.9	47.2	94	94	70-130	1	20	
n-Propylbenzene	ug/L	50	50.1	49.9	100	100	70-130	0	20	
Naphthalene	ug/L	50	43.7	44.8	87	90	70-130	2	20	
o-Xylene	ug/L	50	55.0	51.8	110	104	70-130	6	20	
p-Isopropyltoluene	ug/L	50	44.2	43.6	88	87	70-130	1	20	
sec-Butylbenzene	ug/L	50	50.4	50.4	101	101	70-130	0	20	
Styrene	ug/L	50	53.6	49.6	107	99	70-130	8	20	
tert-Butylbenzene	ug/L	50	49.9	49.7	100	99	70-130	0	20	
Tetrachloroethene	ug/L	50	49.1	47.7	98	95	70-130	3	20	
Toluene	ug/L	50	52.9	49.5	106	99	70-130	7	20	
trans-1,2-Dichloroethene	ug/L	50	58.3	57.7	117	115	70-130	1	20	
trans-1,3-Dichloropropene	ug/L	50	49.5	47.4	99	95	55-135	4	20	
Trichloroethene	ug/L	50	55.7	56.6	111	113	70-130	2	20	
Trichlorofluoromethane	ug/L	50	58.7	59.2	117	118	50-150	1	20	
Vinyl chloride	ug/L	50	64.9	65.8	130	132	61-143	1	20	
4-Bromofluorobenzene (S)	%.				86	85	43-137			
Dibromofluoromethane (S)	%.				88	88	70-130			
Toluene-d8 (S)	%.				88	83	55-137			

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1241 Bellevue Street - Suite 9
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(920)469-2436

QUALITY CONTROL DATA

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 734659 734660

Parameter	Units	4072560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	<0.92	50	50	49.2	50.2	98	100	70-130	2	20	
1,1,1-Trichloroethane	ug/L	<0.90	50	50	55.7	56.7	111	113	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.20	50	50	44.7	48.3	89	97	70-130	8	20	
1,1,2-Trichloroethane	ug/L	<0.42	50	50	47.9	47.1	96	94	70-130	2	20	
1,1-Dichloroethane	ug/L	<0.75	50	50	54.4	53.6	109	107	70-146	1	20	
1,1-Dichloroethene	ug/L	<0.57	50	50	54.6	53.0	109	106	70-130	3	20	
1,1-Dichloropropene	ug/L	<0.75	50	50	55.2	52.9	110	106	70-130	4	20	
1,2,3-Trichlorobenzene	ug/L	<0.74	50	50	41.5	42.6	83	85	70-130	3	20	
1,2,3-Trichloropropane	ug/L	<0.99	50	50	44.7	46.1	89	92	70-130	3	20	
1,2,4-Trichlorobenzene	ug/L	<0.97	50	50	40.2	40.5	80	81	70-130	1	20	
1,2,4-Trimethylbenzene	ug/L	<0.97	50	50	45.9	47.1	92	94	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.7	50	50	43.0	47.4	86	95	46-150	10	20	
1,2-Dibromoethane (EDB)	ug/L	<0.56	50	50	48.4	48.4	97	97	70-130	0	20	
1,2-Dichlorobenzene	ug/L	<0.83	50	50	47.0	48.3	94	97	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.36	50	50	50.1	53.1	100	106	70-146	6	20	
1,2-Dichloropropane	ug/L	<0.49	50	50	52.1	48.4	104	97	70-136	7	20	
1,3,5-Trimethylbenzene	ug/L	<0.83	50	50	46.9	48.9	94	98	70-130	4	20	
1,3-Dichlorobenzene	ug/L	<0.87	50	50	47.1	49.2	94	98	70-130	4	20	
1,3-Dichloropropane	ug/L	<0.61	50	50	48.6	50.1	97	100	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.95	50	50	42.9	45.3	86	91	70-130	5	20	
2,2-Dichloropropane	ug/L	<0.62	50	50	55.7	55.9	111	112	70-130	0	20	
2-Chlorotoluene	ug/L	<0.85	50	50	47.9	49.8	96	100	70-130	4	20	
4-Chlorotoluene	ug/L	<0.74	50	50	45.9	48.0	92	96	70-130	4	20	
Benzene	ug/L	<0.41	50	50	53.1	54.1	106	108	70-137	2	20	
Bromobenzene	ug/L	<0.82	50	50	43.5	45.6	87	91	70-130	5	20	
Bromochloromethane	ug/L	<0.97	50	50	55.7	54.3	111	109	70-130	3	20	
Bromodichloromethane	ug/L	<0.56	50	50	51.9	49.1	104	98	70-133	6	20	
Bromoform	ug/L	<0.94	50	50	46.9	50.4	94	101	57-130	7	20	
Bromomethane	ug/L	<0.91	50	50	61.9	59.9	124	120	41-148	3	20	
Carbon tetrachloride	ug/L	<0.49	50	50	55.7	56.1	111	112	70-154	1	20	
Chlorobenzene	ug/L	<0.41	50	50	50.6	51.5	101	103	70-130	2	20	
Chloroethane	ug/L	<0.97	50	50	56.6	54.9	113	110	70-140	3	20	
Chloroform	ug/L	<1.3	50	50	55.1	54.9	110	110	70-130	0	20	
Chloromethane	ug/L	<0.24	50	50	57.2	56.7	114	113	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	10.3	50	50	64.8	63.3	109	106	70-130	2	20	
cis-1,3-Dichloropropene	ug/L	<0.20	50	50	57.3	51.9	115	104	70-136	10	20	
Dibromochloromethane	ug/L	<0.81	50	50	50.1	49.6	100	99	70-130	1	20	
Dibromomethane	ug/L	<0.60	50	50	51.2	48.9	102	98	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.99	50	50	55.4	55.6	111	111	10-157	0	20	
Diisopropyl ether	ug/L	<0.76	50	50	54.9	54.2	110	108	70-130	1	20	
Ethylbenzene	ug/L	<0.54	50	50	49.3	51.2	99	102	70-130	4	20	
Hexachloro-1,3-butadiene	ug/L	<0.67	50	50	41.1	42.3	82	85	70-130	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.59	50	50	53.5	54.3	107	109	70-130	1	20	
m&p-Xylene	ug/L	<1.8	100	100	100	105	100	105	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<0.61	50	50	51.4	52.2	103	104	59-141	1	20	
Methylene Chloride	ug/L	<0.43	50	50	54.0	53.9	108	108	70-130	0	20	
n-Butylbenzene	ug/L	<0.93	50	50	43.7	45.9	87	92	70-130	5	20	

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QUALITY CONTROL DATA

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 734659 734660

Parameter	Units	4072560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
n-Propylbenzene	ug/L	<0.81	50	50	47.4	49.0	95	98	70-130	3	20	
Naphthalene	ug/L	<0.89	50	50	43.9	46.0	88	92	70-130	5	20	
o-Xylene	ug/L	<0.83	50	50	51.8	53.3	104	107	70-130	3	20	
p-Isopropyltoluene	ug/L	<0.67	50	50	41.9	42.9	84	86	70-130	2	20	
sec-Butylbenzene	ug/L	<0.89	50	50	48.1	49.8	96	100	70-130	3	20	
Styrene	ug/L	<0.86	50	50	50.3	52.0	101	104	35-164	3	20	
tert-Butylbenzene	ug/L	<0.97	50	50	47.5	48.8	95	98	70-130	3	20	
Tetrachloroethene	ug/L	<0.45	50	50	48.8	47.8	98	96	70-130	2	20	
Toluene	ug/L	<0.67	50	50	53.2	50.9	106	102	70-130	4	20	
trans-1,2-Dichloroethene	ug/L	<0.89	50	50	57.9	57.8	116	114	70-130	0	20	
trans-1,3-Dichloropropene	ug/L	<0.19	50	50	49.1	48.3	98	97	55-137	2	20	
Trichloroethene	ug/L	<0.48	50	50	53.9	52.7	108	105	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.79	50	50	58.5	58.4	117	117	50-150	0	20	
Vinyl chloride	ug/L	<0.18	50	50	66.0	65.8	132	132	59-144	0	20	
4-Bromofluorobenzene (S)	%.						85	85	43-137			
Dibromofluoromethane (S)	%.						89	85	70-130			
Toluene-d8 (S)	%.						88	84	55-137			

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QUALIFIERS

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 42891200 UNITY-ENVIRONMENTAL
Pace Project No.: 4072504

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4072504001	PRIVATE WELL	EPA 3010	MPRP/7995	EPA 6010	ICP/7025
4072504001	PRIVATE WELL	EPA 8260	MSV/18241		

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

EMHV

4072504

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:	CWE, Inc.
Branch/Location:	Weston, WI
Project Contact:	Brian Bailey
Phone:	715-359-9400
Project Number:	42891200
Project Name:	Unity - Environmental Services
Project State:	WI
Sampled By (Print):	Brian Bailey
Sampled By (Sign):	Brian Bailey
PO #:	N/A
Regulatory Program:	

Quote #:	
Mail To Contact:	Brian Bailey
Mail To Company:	CWE, Inc.
Mail To Address:	5707 Schofield Ave Weston, WI 54476
Invoice To Contact:	Brian Bailey
Invoice To Company:	CWE, Inc.
Invoice To Address:	5707 Schofield Ave Weston, WI 54476
Invoice To Phone:	715-359-9400

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N				
					D	B				
001	Private Well	1/3/13	11:30A	DW	X	A	Lead; VOCs (8260)		1-250mlpP, 3-40mlVG	

Relinquished By:	Date/Time:	Received By:	Date/Time:
Brian Bailey	1/3/13 1230		
Brian Bailey	1-4-13 1035	Susan Wyland	1-4-13 1035

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

PACE Project No.: 4072504

Receipt Temp = 2.0 °C

Sample Receipt pH: (OK) Adjusted

Cooler Custody Seal: Present / Not Present; Intact / Not Intact

Version 9.0 09/14/06

C019a(27Jun2006)

ORIGINAL