ENVIRONMENTAL SAMPLING CORPORATION

Dedicated to Environmental Monitoring, Science & Technology

March 19, 2018

Mr. Jason Lowery
Wisconsin Department of Natural Resources
101 S. Webster St.
Madison, WI 53703

Re: October 2017 Groundwater Monitoring Results
Delafield Sanitary Transfer and Landfill - WDNR License No. 00719
Delafield, Wisconsin

Dear Mr. Lowery

With this submission, Environmental Sampling Corporation (ESC) is providing a summary of the environmental monitoring conducted during the semi-annual monitoring event in October 2017. A data file containing analytical results and a data certification page will also be submitted to the WDNR GEMS data submittal contact.

In accordance with the April 24, 2017 Bidding Documents and follow-up WDNR correspondence on June 1, 2017, ESC staff was on site in October 30, 2017 and November 1, 2017 to conduct the following semi-annual monitoring:

- Sample two groundwater monitoring wells,
- Sample one leachate monitoring location, and
- Sample six private water supply wells.

Information regarding the environmental monitoring conducted at the Delafield Sanitary Transfer and Landfill is provided in the following sections titled Groundwater Monitoring, Leachate Monitoring, and Private Well Monitoring. Landfill gas monitoring conducted during 2017 was provided to WDNR throughout the reporting period via e-mail and will be submitted in electronic format under separate cover.

Groundwater Monitoring

Semi-annual groundwater monitoring at the facility includes depth to water measurements and sample collection at two groundwater monitoring wells (NR-2A and NR-2B). Water levels were recorded, and the groundwater wells were purged and sampled with disposable polyethylene bailers. Monitoring wells had three well volumes purged before sample collection.

All groundwater samples were analyzed for field parameters, inorganic parameters included in the bid documents, and volatile organic compounds (VOCs). Samples were unfiltered, with the exception of dissolved iron and dissolved manganese. Samples collected for these parameters were field filtered using disposable 0.45-micron filters. All samples were placed on ice, chain-of-custody was established, and samples were sent to CT laboratories (WDNR Lab Certification #15-7066030) for analysis via Waltco courier service.

Field parameters (pH, specific conductivity and temperature), were measured using a dual Cole-Parmer pH and conductivity meter which was calibrated and checked in the field during the sampling event. ESC personnel also recorded depth-to-water measurements, sample color, odor, and turbidity.

The groundwater quality results for the samples collected from the two monitoring wells were compared to the WDNR NR140 Preventative Action Limits (PALs) and Enforcement Standards (ES) for Public Health and Public Welfare parameters. Exceedances of NR140 standards for Public Health and Public Welfare are summarized below, followed by a discussion of VOC detections.

NR140 Pubic Health Parameter Exceedances:

Concentrations of arsenic exceeded the NR 140 PAL and concentrations of manganese (total and dissolved) exceeded the NR 140 ES in the samples collected from groundwater monitoring wells NR-2A and NR-2B. Concentrations of arsenic in the samples collected from NR-2A and NR-2B were similar to historic data available in the GEMS Database. Concentrations of total and dissolved manganese were within the range of available historic data for samples collected from NR-2B, but were increased from the typical historic data available for NR-2A.

Concentrations of beryllium, chromium, and copper in the samples collected from NR-2A exceeded the NR 140 PALs. The concentration of lead in the sample collected from NR-2A exceeded the NR 140 ES. The concentrations of chromium and lead were within the range of historic data available for NR-2A. The concentrations of beryllium and copper were increased from historic concentrations available for comparison, which did not indicate NR 140 exceedances. A summary of NR140 Public Health Parameter exceedances is provided as **Table 1**.

NR140 Pubic Welfare Parameter Exceedances:

Concentrations of chloride in the samples collected from NR-2A and NR-2B exceeded the NR 140 PAL. The reported concentrations were similar to available historic data. Concentrations of manganese (total and dissolved) in the samples collected from NR-2A and NR-2B also exceeded the NR 140 ES. The WDNR has established both Public Health and Public Welfare parameters for manganese. As indicated above, the concentrations of total and dissolved manganese were within the range of available historic data for samples collected from NR-2B, but were increased from the typical historic data available for NR-2A.

The concentration of dissolved iron was detected at a concentration in excess of the NR 140 PAL in the sample collected from NR-2A; however, this concentration was below the laboratory limit of quantitation (LOQ). This estimated concentration below the LOQ is not considered an exceedance in accordance with NR140.14(c) and is therefore not included on the attached exceedance summary. A summary of NR140 Public Welfare Parameter exceedances is provided as **Table 2**.

VOC Detections:

No VOCs were detected in the sample collected from NR-2A. One VOC, 1,1-dichloroethane, was detected at a concentration less than NR 140 standards in the sample collected from NR-2B. This concentration was less than the LOQ which cannot be confirmed by the laboratory and should be considered an estimate. No other VOCs were detected in the sample collected form NR-2B.

Leachate Monitoring

A sample was collected from the Leachate Wet Well in October 2017 with a disposable polyethylene bailer. Samples were analyzed for field parameters, inorganic parameters included in the bid documents, and VOCs. Leachate analytical results were compared to historic data from the last five years that was available in the GEMS Database (i.e. November 2013, July 2014, May 2015, and May 2016). Concentrations of hardness, cyanide, antimony, beryllium, cadmium, calcium, total and dissolved manganese, lead, selenium, thallium, zinc, and field pH were similar to available historic data. Concentrations of sulfate, nitrate+nitrite nitrogen, and copper were slightly increased from available historic data. Concentrations of alkalinity, chloride, TKN, arsenic, barium, chromium, dissolved iron, magnesium, sodium, field conductivity, and VOCs were reduced from available historic data. Select parameters (e.g. BOD, COD, TSS, ammonia nitrogen for example) were analyzed periodically over the past five years but were not required by the current Bid Documents.

Private Well Monitoring

Six private well water samples were collected during the semi-annual monitoring event. Due to scheduling conflicts, two private well samples could not be sampled during the October 30, 2017 monitoring event and were instead collected on November 1, 2017. The private well samples were collected after the wells had been purged for 15 minutes. The private well water samples were analyzed for field parameters, inorganic parameters included in the bid documents, and VOCs (Method 524.2).

Laboratory analytical data indicates that there were no VOCs detected and no exceedances of the primary drinking water standards for the six private well samples collected. There was one exceedance of the Secondary Standard for iron in the sample collected from private well 13. The reported concentration of iron was increased from available historic data for this private well. Private well letters were provided to the homeowners on December 5, 2017.

This letter satisfies the reporting requirements for the October 2017 monitoring event. If you have any questions or comments regarding this submittal, please contact Frank Perugini, Director of Operations, or the undersigned at 414-427-5033.

Sincerely,
Environmental Sampling Corporation

Tracy Ipavec
Sr. Environmental Specialist

Attachments

cc: Tom Wentland: WDNR – Madison (electronic copy)
Gerald Demers: WDNR – Milwaukee (electronic copy)
Angela Carey: WDNR – Madison (electronic copy)
GEMS Data Submittal Contact: WDNR-Madison w/CD
Todd Watermolen: ESC (electronic copy)
Frank Perugini: ESC (electronic copy)

Table 1

Exceedance Summary
NR 140 Preventive Action Limit and Enforement Standard
Public Health Parameters

Delafield Sanitary Transfer and Landfill
License #00719
October 2017

WELL ID#	WDNR ID#	ANALYTE	WDNR CODE	SAMPLE DATE	RESULT	UNITS	EXCEEDS
NR-2A	380	Arsenic, total	01002	10/30/17	3.2	ug/L	PAL (1.0)
NR-2A	380	Beryllium, total	01012	10/30/17	1.0	ug/L	PAL (0.4)
NR-2A	380	Chromium, total	01034	10/30/17	49.2	ug/L	PAL (10)
NR-2A	380	Copper, total	01042	10/30/17	131	ug/L	PAL (130)
NR-2A	380	Manganese, total	01055	10/30/17	2,080	ug/L	ES (300)
NR-2A	380	Manganese, dissolved	01056	10/30/17	365	ug/L	ES (300)
NR-2A	380	Lead, total	01051	10/30/17	64.4	ug/L	ES (15)
NR-2B	381	Arsenic, total	01002	10/30/17	9.7	ug/L	PAL (1.0)
NR-2B	381	Manganese, total	01055	10/30/17	192	ug/L	ES (300)
NR-2B	381	Manganese, dissolved	01056	10/30/17	177	ug/L	ES (300)

Notes:
PAL -NR 140 Preventive Action Limits for Public Health parameters
ES - NR 140 Enforcement Standards for Public Health parameters

Table 2

Exceedance Summary
NR 140 Preventive Action Limit and Enforement Standard
Public Welfare Parameters

Delafield Sanitary Transfer and Landfill
License #00719
October 2017

WELL ID#	WDNR ID#	ANALYTE	WDNR CODE	SAMPLE DATE	RESULT	UNITS	EXCEEDS
NR-2A	380	Chloride	00940	10/30/17	230	mg/L	PAL (125)
NR-2A	380	Manganese, total	01055	10/30/17	2,080	ug/L	ES (50)
NR-2A	380	Manganese, dissolved	01056	10/30/17	365	ug/L	ES (50)
NR-2B	381	Chloride	00940	10/30/17	170	mg/L	PAL (125)
NR-2B	381	Manganese, total	01055	10/30/17	192	ug/L	ES (50)
NR-2B	381	Manganese, dissolved	01056	10/30/17	177	ug/L	ES (50)

Notes:
PAL -NR 140 Preventive Action Limits for Public Welfare parameters
ES - NR 140 Enforcement Standards for Public Welfare parameters

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ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #: 10/2017
Folder #: 132019
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 11/02/2017
Reprint Date: 12/05/2017

CT LAB#: 946003 Sample Description: LOT 15 DNR License/Well #: 00719/382 Sampled: 11/01/2017 1505

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	CLEAR		N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Conductivity (Field)	436	umhos/cm	N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
pH (Field)	7.10	S.U.	N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Temperature (Field)	14.3	Deg. C	N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Inorganic Results										
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U	11/08/2017 09:00	11/10/2017 11:31	MEZ	EPA 351.2
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1	U M		11/02/2017 15:10	DGS	EPA 300.0
Nitrite Nitrogen Total	<0.040	mg/L	0.040	0.12	1	U M		11/02/2017 15:10	DGS	EPA 300.0
Total Chloride	4.9	mg/L	0.70	2.4	1			11/02/2017 15:10	DGS	EPA 300.0
Total Sulfate	27	mg/L	1.0	3.2	1			11/02/2017 15:10	DGS	EPA 300.0

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #: 10/2017
Folder #: 132019
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 11/02/2017
Reprint Date: 12/05/2017

CT LAB#: 946004 Sample Description: 13 DNR License/Well #: 00719/237 Sampled: 11/01/2017 1545

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	CLEAR		N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Conductivity (Field)	673	umhos/cm	N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
pH (Field)	7.08	S.U.	N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Temperature (Field)	15.3	Deg. C	N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			11/01/2017 00:00	SUB	FIELD
Inorganic Results										
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U	11/08/2017 09:00	11/10/2017 11:32	MEZ	EPA 351.2
Nitrate Nitrogen Total	0.52	mg/L	0.040	0.13	1			11/02/2017 16:00	DGS	EPA 300.0
Nitrite Nitrogen Total	<0.040	mg/L	0.040	0.12	1	U		11/02/2017 16:00	DGS	EPA 300.0
Total Chloride	24	mg/L	3.5	12	5			11/03/2017 08:52	DGS	EPA 300.0
Total Sulfate	40	mg/L	1.0	3.2	1			11/02/2017 16:00	DGS	EPA 300.0

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

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DoD-ELAP A2LA 3806.01
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Pennsylvania NELAP Lab ID# 68-04201, # 008

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ANALYTICAL REPORT

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MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #: 10/2017
Folder #: 132019
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 11/02/2017
Reprint Date: 12/05/2017

CT LAB#: 946186 Sample Description: LOT 15 DNR License/Well #: 00719/382 Sampled: 11/01/2017 1505

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Alkalinity	230	mg/L	4.0	4.0	1			11/07/2017 15:30	BKB	SM 2320B
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 14:14	SAW	EPA 335.4
Metals Results										
Total Barium	43.5	ug/L	0.70	2.5	1			11/03/2017 22:23	NAH	EPA 200.7
Total Beryllium	<0.38	ug/L	0.38	1.3	1	U		11/03/2017 22:23	NAH	EPA 200.7
Total Cadmium	<0.40	ug/L	0.40	1.4	1	U		11/03/2017 22:23	NAH	EPA 200.7
Total Calcium	49400	ug/L	31	110	1			11/03/2017 22:23	NAH	EPA 200.7
Total Chromium	<2.0	ug/L	2.0	8.0	1	U		11/03/2017 22:23	NAH	EPA 200.7
Total Copper	96.8	ug/L	3.9	13	1			11/03/2017 22:23	NAH	EPA 200.7
Total Iron	150	ug/L	59	200	1	J		11/03/2017 22:23	NAH	EPA 200.7
Total Magnesium	21300	ug/L	25	84	1			11/03/2017 22:23	NAH	EPA 200.7
Total Manganese	5.8	ug/L	2.2	7.3	1	J		11/03/2017 22:23	NAH	EPA 200.7
Total Zinc	260	ug/L	2.2	7.3	1			11/03/2017 22:23	NAH	EPA 200.7
Total Antimony	<0.60	ug/L	0.60	1.9	1	U		11/10/2017 14:04	MDS	EPA 200.9
Total Arsenic	<0.60	ug/L	0.60	2.1	1	U	11/03/2017 12:20	11/08/2017 16:24	MDS	EPA 200.9

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 946186 Sample Description:LOT 15 DNR License/Well #: 00719/382 Sampled: 11/01/2017 1505

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Lead	4.3	ug/L	0.43	1.4	1			11/08/2017 12:03	MDS	EPA 200.9
Total Selenium	<1.0	ug/L	1.0	3.4	1	U	11/03/2017 12:20	11/08/2017 09:50	MDS	EPA 200.9
Total Thallium	<0.19	ug/L	0.19	0.61	1	U	11/06/2017 06:55	11/07/2017 13:02	MDS	EPA 200.9
Total Sodium	5.730	mg/L	0.030	0.10	1			11/06/2017 09:10	MDS	EPA 200.7
Total Hardness	211	mg/L	0.18	0.61	1			11/03/2017 22:23	NAH	SM 2340B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:33	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 20:33	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:33	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 946186 Sample Description:LOT 15 DNR License/Well #: 00719/382 Sampled: 11/01/2017 1505

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:33	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 20:33	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:33	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:33	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	U		11/06/2017 20:33	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:33	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:33	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 20:33	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 20:33	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:33	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	U		11/06/2017 20:33	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	U		11/06/2017 20:33	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1	U		11/06/2017 20:33	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 20:33	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1	U		11/06/2017 20:33	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1	U		11/06/2017 20:33	RLD	EPA 524.2
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:33	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 20:33	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1	U		11/06/2017 20:33	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1	U		11/06/2017 20:33	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 20:33	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1	U		11/06/2017 20:33	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 946186 Sample Description:LOT 15 DNR License/Well #: 00719/382 Sampled: 11/01/2017 1505

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1	U		11/06/2017 20:33	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 20:33	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 20:33	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 20:33	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 20:33	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1	U		11/06/2017 20:33	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1	U		11/06/2017 20:33	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 20:33	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:33	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 20:33	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1	U		11/06/2017 20:33	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #: 10/2017
Folder #: 132019
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 11/02/2017
Reprint Date: 12/05/2017

CT LAB#: 946187 Sample Description: 13 DNR License/Well #: 00719/237 Sampled: 11/01/2017 1545

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Alkalinity	310	mg/L	4.0	4.0	1			11/07/2017 15:30	BKB	SM 2320B
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 14:17	SAW	EPA 335.4
Metals Results										
Total Barium	88.7	ug/L	0.70	2.5	1			11/03/2017 22:31	NAH	EPA 200.7
Total Beryllium	<0.38	ug/L	0.38	1.3	1	U		11/03/2017 22:31	NAH	EPA 200.7
Total Cadmium	<0.40	ug/L	0.40	1.4	1	U		11/03/2017 22:31	NAH	EPA 200.7
Total Calcium	60800	ug/L	31	110	1			11/03/2017 22:31	NAH	EPA 200.7
Total Chromium	<2.0	ug/L	2.0	8.0	1	U		11/03/2017 22:31	NAH	EPA 200.7
Total Copper	115	ug/L	3.9	13	1			11/03/2017 22:31	NAH	EPA 200.7
Total Iron	505	ug/L	59	200	1			11/03/2017 22:31	NAH	EPA 200.7
Total Magnesium	36700	ug/L	25	84	1			11/03/2017 22:31	NAH	EPA 200.7
Total Manganese	6.1	ug/L	2.2	7.3	1	J		11/03/2017 22:31	NAH	EPA 200.7
Total Zinc	113	ug/L	2.2	7.3	1			11/03/2017 22:31	NAH	EPA 200.7
Total Antimony	<0.60	ug/L	0.60	1.9	1	U		11/10/2017 14:14	MDS	EPA 200.9
Total Arsenic	<0.60	ug/L	0.60	2.1	1	U	11/03/2017 12:20	11/08/2017 14:48	MDS	EPA 200.9

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 946187 Sample Description:13 DNR License/Well #: 00719/237 Sampled: 11/01/2017 1545

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Lead	7.7	ug/L	0.43	1.4	1			11/08/2017 12:09	MDS	EPA 200.9
Total Selenium	<1.0	ug/L	1.0	3.4	1	U	11/03/2017 12:20	11/08/2017 09:56	MDS	EPA 200.9
Total Thallium	<0.19	ug/L	0.19	0.61	1	U	11/06/2017 06:55	11/07/2017 13:19	MDS	EPA 200.9
Total Sodium	9.750	mg/L	0.030	0.10	1			11/06/2017 09:13	MDS	EPA 200.7
Total Hardness	303	mg/L	0.18	0.61	1			11/03/2017 22:31	NAH	SM 2340B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 21:02	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 21:02	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 21:02	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 946187 Sample Description:13 DNR License/Well #: 00719/237 Sampled: 11/01/2017 1545

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 21:02	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 21:02	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 21:02	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 21:02	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	U		11/06/2017 21:02	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 21:02	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 21:02	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 21:02	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 21:02	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 21:02	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	U		11/06/2017 21:02	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	U		11/06/2017 21:02	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1	U		11/06/2017 21:02	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 21:02	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1	U		11/06/2017 21:02	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1	U		11/06/2017 21:02	RLD	EPA 524.2
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 21:02	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 21:02	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1	U		11/06/2017 21:02	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1	U		11/06/2017 21:02	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 21:02	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1	U		11/06/2017 21:02	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 946187 Sample Description:13 DNR License/Well #: 00719/237 Sampled: 11/01/2017 1545

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1	U		11/06/2017 21:02	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 21:02	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 21:02	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 21:02	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 21:02	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1	U		11/06/2017 21:02	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1	U		11/06/2017 21:02	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 21:02	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 21:02	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 21:02	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1	U		11/06/2017 21:02	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

Rev. 02/2017

CHAIN OF CUSTODY

Page 1 of 1

Company: ESC
Project Contact: Frank Pervyini
Telephone: 414-427-5033
Project Name: Delafield
Project #: 10/2017
Location: Delafield, WI
Sampled By: Scott Freimark

Folder #: 132019
Company: ENVIRONMENTAL SA
Project: DELAFIELD LF
Logged By: BNA PM: BM

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Program: RCRA SDWA NPDES
Waste Other _____

Report To: ESC – Frank Pervyini
EMAIL: escstaff@yahoo.com
Company: ESC
Address: P.O. Box 12
Muskego, WI 53150
Invoice To:*
EMAIL:
Company: Same as Report to*.
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
Please use the attached sheet for analytical Request
F = field filtered

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	P-None	P-HNO3	P-H2SO4	UNPRES	ENCORE										Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
							Fill in Spaces with Bottles per Test																
11/1/17	1505	DW	G		Lot 15	N	1	1	1	3	1										7		946003
11/1/17	1545	DW	G		13	N	1	1	1	3	1										7		946004

Turnaround Time
(Normal) RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
ESC	11/1/17 1700		11/2/17 1150
Received by:	Date/Time	Received for Laboratory by:	Date/Time
			11-2-17 1205

Lab Use Only
Ice Present (Yes) No
Temp 0.8° IR Gun 15
Cooler # Thurs

CT LABORATORIES
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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944740 Sample Description: NR-2A DNR License/Well #: 0719/380 Sampled: 10/30/2017 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Depth to Groundwater (Field)	59.30	Feet	N/A	N/A	1			10/30/2017 00:00	SUB	
Color (Field)	TAN		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	1010	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.31	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	13.0	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	HIGH		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	280	mg/L	10	34	1			11/07/2017 12:08	BKB	EPA 310.2
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U M	11/01/2017 10:00	11/03/2017 11:45	LJS	EPA 351.2
Total Chloride	230	mg/L	7.0	24	10			11/07/2017 11:13	DGS	EPA 9056A
Total Sulfate	14	mg/L	1.0	3.2	1			11/07/2017 07:02	DGS	EPA 9056A
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U M	11/07/2017 12:00	11/07/2017 13:22	SAW	EPA 9012A
Nitrate+Nitrite Nitrogen Total	0.81	mg/L	0.063	0.21	1			11/13/2017 12:17	SAW	EPA 353.2
Metals Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944740 Sample Description:NR-2A DNR License/Well #: 0719/380 Sampled: 10/30/2017 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	0.179	mg/L	0.059	0.20	1	J		11/02/2017 20:45	NAH	EPA 6010C
Dissolved Manganese	365	ug/L	2.2	7.3	1			11/02/2017 20:45	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 16:29	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1	U		11/02/2017 16:29	AGK	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 16:29	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1	U		11/02/2017 16:29	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944740 Sample Description:NR-2A DNR License/Well #: 0719/380 Sampled: 10/30/2017 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1	U		11/02/2017 16:29	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1	U		11/02/2017 16:29	AGK	EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1	U		11/02/2017 16:29	AGK	EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1	U		11/02/2017 16:29	AGK	EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 16:29	AGK	EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1	U		11/02/2017 16:29	AGK	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 16:29	AGK	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 16:29	AGK	EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 16:29	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1	U		11/02/2017 16:29	AGK	EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 16:29	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 16:29	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1	U		11/02/2017 16:29	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 16:29	AGK	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1	U		11/02/2017 16:29	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944740 Sample Description:NR-2A DNR License/Well #: 0719/380 Sampled: 10/30/2017 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 16:29	AGK	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 16:29	AGK	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 16:29	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 16:29	AGK	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 16:29	AGK	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 16:29	AGK	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 16:29	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 16:29	AGK	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 16:29	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 16:29	AGK	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	U		11/02/2017 16:29	AGK	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 16:29	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 16:29	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 16:29	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 16:29	AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 16:29	AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1	U		11/02/2017 16:29	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944797 Sample Description: NR-2A DNR License/Well #: 0719/380 Sampled: 10/30/2017 0915

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Total Antimony	0.43	ug/L	0.40	1.5	1	J	11/02/2017 09:15	11/06/2017 12:10	MDS	EPA 7010
Total Arsenic	3.2	ug/L	0.60	2.1	1		11/02/2017 09:15	11/03/2017 14:06	MDS	EPA 7010
Total Thallium	<0.35	ug/L	0.35	1.3	1	U	11/02/2017 09:15	11/07/2017 12:14	MDS	EPA 7010
Total Barium	210	ug/L	1.0	3.3	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Beryllium	1.0	ug/L	0.29	0.97	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Cadmium	<0.30	ug/L	0.30	1.1	1	U	11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Calcium	499	mg/L	0.024	0.079	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Chromium	49.2	ug/L	5.0	17	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Copper	131	ug/L	4.4	15	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Lead	64.4	ug/L	1.4	4.6	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Magnesium	269	mg/L	0.016	0.055	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Manganese	2080	ug/L	3.4	11	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Selenium	<4.0	ug/L	4.0	13	1	U	11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Zinc	259	ug/L	2.8	9.4	1		11/02/2017 12:46	11/03/2017 20:13	NAH	EPA 6010C
Total Sodium	168	mg/L	0.10	0.35	1		11/02/2017 12:46	11/06/2017 09:46	MDS	EPA 6010C
Total Hardness	2350	mg/L	0.13	0.42	1		11/02/2017 12:46	11/03/2017 20:13	NAH	SM2340B/6010C

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Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
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ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
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Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944798 Sample Description: NR-2B DNR License/Well #: 0719/381 Sampled: 10/30/2017 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Depth to Groundwater (Field)	54.65	Feet	N/A	N/A	1			10/30/2017 00:00	SUB	
Color (Field)	CLEAR		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	1237	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.09	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	9.8	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Alkalinity Total	590	mg/L	10	34	1			11/07/2017 12:10	BKB	EPA 310.2
Total Kjeldahl Nitrogen	8.5	mg/L	0.52	1.7	1		11/01/2017 10:00	11/03/2017 11:50	LJS	EPA 351.2
Total Chloride	170	mg/L	3.5	12	5			11/07/2017 07:53	DGS	EPA 9056A
Total Sulfate	20	mg/L	1.0	3.2	1			11/07/2017 07:36	DGS	EPA 9056A
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 13:32	SAW	EPA 9012A
Nitrate+Nitrite Nitrogen Total	<0.063	mg/L	0.063	0.21	1	U		11/13/2017 12:21	SAW	EPA 353.2
Metals Results										

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944798 Sample Description:NR-2B DNR License/Well #: 0719/381 Sampled: 10/30/2017 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dissolved Iron	1.99	mg/L	0.059	0.20	1			11/02/2017 21:05	NAH	EPA 6010C
Dissolved Manganese	177	ug/L	2.2	7.3	1			11/02/2017 21:05	NAH	EPA 6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,1-Dichloroethane	0.84	ug/L	0.30	1.1	1	J		11/02/2017 15:58	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 15:58	AGK	EPA 8260C
1,4-Dichlorobenzene	0.62	ug/L	0.60	2.0	1	J		11/02/2017 15:58	AGK	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 15:58	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1	U		11/02/2017 15:58	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944798 Sample Description:NR-2B DNR License/Well #: 0719/381 Sampled: 10/30/2017 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1	U		11/02/2017 15:58	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1	U		11/02/2017 15:58	AGK	EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1	U		11/02/2017 15:58	AGK	EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1	U		11/02/2017 15:58	AGK	EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 15:58	AGK	EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1	U		11/02/2017 15:58	AGK	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 15:58	AGK	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 15:58	AGK	EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 15:58	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1	U		11/02/2017 15:58	AGK	EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1	U Y		11/02/2017 15:58	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 15:58	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 15:58	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1	U		11/02/2017 15:58	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 15:58	AGK	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1	U		11/02/2017 15:58	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944798 Sample Description:NR-2B DNR License/Well #: 0719/381 Sampled: 10/30/2017 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
m & p-Xylene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 15:58	AGK	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 15:58	AGK	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 15:58	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 15:58	AGK	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 15:58	AGK	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 15:58	AGK	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 15:58	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 15:58	AGK	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 15:58	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 15:58	AGK	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	U		11/02/2017 15:58	AGK	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 15:58	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 15:58	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 15:58	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 15:58	AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 15:58	AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1	U		11/02/2017 15:58	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944832 Sample Description: NR-2B DNR License/Well #: 0719/381 Sampled: 10/30/2017 1130

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Metals Results										
Total Antimony	<0.40	ug/L	0.40	1.5	1	U	11/02/2017 09:15	11/06/2017 12:20	MDS	EPA 7010
Total Arsenic	9.7	ug/L	0.60	2.1	1		11/02/2017 09:15	11/03/2017 14:12	MDS	EPA 7010
Total Thallium	<0.35	ug/L	0.35	1.3	1	U	11/02/2017 09:15	11/07/2017 12:20	MDS	EPA 7010
Total Barium	232	ug/L	1.0	3.3	1		11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Beryllium	<0.29	ug/L	0.29	0.97	1	U	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Cadmium	<0.30	ug/L	0.30	1.1	1	U	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Calcium	110	mg/L	0.024	0.079	1		11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Chromium	<5.0	ug/L	5.0	17	1	U	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Copper	5.5	ug/L	4.4	15	1	J	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Lead	<1.4	ug/L	1.4	4.6	1	U	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Magnesium	53.0	mg/L	0.016	0.055	1		11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Manganese	192	ug/L	3.4	11	1		11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Selenium	<4.0	ug/L	4.0	13	1	U	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Zinc	7.2	ug/L	2.8	9.4	1	J	11/02/2017 12:46	11/03/2017 20:40	NAH	EPA 6010C
Total Sodium	64.0	mg/L	0.10	0.35	1		11/02/2017 12:46	11/06/2017 09:55	MDS	EPA 6010C
Total Hardness	493	mg/L	0.13	0.42	1		11/02/2017 12:46	11/03/2017 20:40	NAH	SM2340B/6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

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Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944833 Sample Description: TRIP BLANK DNR License/Well #: 0719/999 Sampled: 10/30/2017

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944833 Sample Description:TRIP BLANK DNR License/Well #: 0719/999 Sampled: 10/30/2017

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:27	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1	U		11/02/2017 13:27	AGK	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:27	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1	U		11/02/2017 13:27	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1	U		11/02/2017 13:27	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1	U		11/02/2017 13:27	AGK	EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1	U		11/02/2017 13:27	AGK	EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1	U		11/02/2017 13:27	AGK	EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:27	AGK	EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1	U		11/02/2017 13:27	AGK	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:27	AGK	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:27	AGK	EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:27	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1	U		11/02/2017 13:27	AGK	EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 13:27	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 13:27	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944833 Sample Description:TRIP BLANK DNR License/Well #: 0719/999 Sampled: 10/30/2017

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1	U		11/02/2017 13:27	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:27	AGK	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1	U		11/02/2017 13:27	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:27	AGK	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:27	AGK	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 13:27	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 13:27	AGK	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:27	AGK	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 13:27	AGK	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 13:27	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 13:27	AGK	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 13:27	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:27	AGK	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	U		11/02/2017 13:27	AGK	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:27	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:27	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:27	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 13:27	AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:27	AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1	U		11/02/2017 13:27	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944840 Sample Description: 11 DNR License/Well #: 0719/235 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	CLEAR		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	1050	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.41	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	10.9	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Alkalinity	360	mg/L	4.0	4.0	1			11/07/2017 15:30	BKB	SM 2320B
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 13:36	SAW	EPA 335.4
Metals Results										
Total Barium	87.7	ug/L	0.70	2.5	1			11/02/2017 07:45	NAH	EPA 200.7
Total Beryllium	<0.38	ug/L	0.38	1.3	1	U		11/02/2017 07:45	NAH	EPA 200.7
Total Cadmium	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 07:45	NAH	EPA 200.7
Total Calcium	90900	ug/L	31	110	1			11/02/2017 07:45	NAH	EPA 200.7
Total Chromium	<2.0	ug/L	2.0	8.0	1	U		11/02/2017 07:45	NAH	EPA 200.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944840 Sample Description:11 DNR License/Well #: 0719/235 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Copper	108	ug/L	3.9	13	1			11/02/2017 07:45	NAH	EPA 200.7
Total Iron	<59	ug/L	59	200	1	U		11/02/2017 07:45	NAH	EPA 200.7
Total Magnesium	40000	ug/L	25	84	1			11/02/2017 07:45	NAH	EPA 200.7
Total Manganese	7.0	ug/L	2.2	7.3	1	J		11/02/2017 07:45	NAH	EPA 200.7
Total Zinc	120	ug/L	2.2	7.3	1			11/02/2017 07:45	NAH	EPA 200.7
Total Antimony	<0.60	ug/L	0.60	1.9	1	U		11/01/2017 10:02	MDS	EPA 200.9
Total Arsenic	<0.60	ug/L	0.60	2.1	1	U	11/02/2017 09:15	11/03/2017 10:39	MDS	EPA 200.9
Total Lead	4.8	ug/L	0.43	1.4	1			11/01/2017 12:48	MDS	EPA 200.9
Total Selenium	<1.0	ug/L	1.0	3.4	1	U	11/02/2017 09:15	11/08/2017 08:53	MDS	EPA 200.9
Total Thallium	<0.19	ug/L	0.19	0.61	1	U	11/02/2017 09:15	11/10/2017 10:40	MDS	EPA 200.9
Total Sodium	70.50	mg/L	0.030	0.10	1			11/06/2017 08:54	MDS	EPA 200.7
Total Hardness	392	mg/L	0.18	0.61	1			11/02/2017 07:45	NAH	SM 2340B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 18:34	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944840 Sample Description:11 DNR License/Well #: 0719/235 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 18:34	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 18:34	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 18:34	RLD	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 18:34	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 18:34	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 18:34	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 18:34	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	U		11/06/2017 18:34	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 18:34	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 18:34	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 18:34	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 18:34	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 18:34	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	U		11/06/2017 18:34	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	U		11/06/2017 18:34	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1	U		11/06/2017 18:34	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 18:34	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1	U		11/06/2017 18:34	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1	U		11/06/2017 18:34	RLD	EPA 524.2

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CT LAB#: 944840 Sample Description:11 DNR License/Well #: 0719/235 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 18:34	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 18:34	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1	U		11/06/2017 18:34	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1	U		11/06/2017 18:34	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 18:34	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1	U		11/06/2017 18:34	RLD	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1	U		11/06/2017 18:34	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 18:34	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 18:34	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 18:34	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 18:34	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1	U		11/06/2017 18:34	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1	U		11/06/2017 18:34	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 18:34	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 18:34	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 18:34	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1	U		11/06/2017 18:34	RLD	EPA 524.2

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Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944849 Sample Description: 15 DNR License/Well #: 0719/239 Sampled: 10/30/2017 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	CLEAR		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	694	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.47	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	11.9	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Alkalinity	320	mg/L	4.0	4.0	1			11/07/2017 15:30	BKB	SM 2320B
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 13:53	SAW	EPA 335.4
Metals Results										
Total Barium	123	ug/L	0.70	2.5	1			11/02/2017 07:52	NAH	EPA 200.7
Total Beryllium	<0.38	ug/L	0.38	1.3	1	U		11/02/2017 07:52	NAH	EPA 200.7
Total Cadmium	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 07:52	NAH	EPA 200.7
Total Calcium	71300	ug/L	31	110	1			11/02/2017 07:52	NAH	EPA 200.7
Total Chromium	<2.0	ug/L	2.0	8.0	1	U		11/02/2017 07:52	NAH	EPA 200.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944849 Sample Description:15 DNR License/Well #: 0719/239 Sampled: 10/30/2017 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Copper	49.6	ug/L	3.9	13	1			11/02/2017 07:52	NAH	EPA 200.7
Total Iron	<59	ug/L	59	200	1	U		11/02/2017 07:52	NAH	EPA 200.7
Total Magnesium	39700	ug/L	25	84	1			11/02/2017 07:52	NAH	EPA 200.7
Total Manganese	<2.2	ug/L	2.2	7.3	1	U		11/02/2017 07:52	NAH	EPA 200.7
Total Zinc	453	ug/L	2.2	7.3	1			11/02/2017 07:52	NAH	EPA 200.7
Total Antimony	<0.60	ug/L	0.60	1.9	1	U		11/01/2017 10:21	MDS	EPA 200.9
Total Arsenic	<0.60	ug/L	0.60	2.1	1	U	11/02/2017 09:15	11/03/2017 10:45	MDS	EPA 200.9
Total Lead	2.2	ug/L	0.43	1.4	1			11/01/2017 12:53	MDS	EPA 200.9
Total Selenium	<1.0	ug/L	1.0	3.4	1	U	11/02/2017 09:15	11/08/2017 08:58	MDS	EPA 200.9
Total Thallium	<0.19	ug/L	0.19	0.61	1	U	11/02/2017 09:15	11/10/2017 10:46	MDS	EPA 200.9
Total Sodium	8.440	mg/L	0.030	0.10	1			11/06/2017 09:02	MDS	EPA 200.7
Total Hardness	342	mg/L	0.18	0.61	1			11/02/2017 07:52	NAH	SM 2340B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:04	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944849 Sample Description:15 DNR License/Well #: 0719/239 Sampled: 10/30/2017 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:04	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 19:04	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:04	RLD	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:04	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 19:04	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:04	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:04	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	U		11/06/2017 19:04	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:04	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:04	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 19:04	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 19:04	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:04	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	U		11/06/2017 19:04	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	U		11/06/2017 19:04	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1	U		11/06/2017 19:04	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 19:04	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1	U		11/06/2017 19:04	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1	U		11/06/2017 19:04	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944849 Sample Description:15 DNR License/Well #: 0719/239 Sampled: 10/30/2017 1410

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:04	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 19:04	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1	U		11/06/2017 19:04	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1	U		11/06/2017 19:04	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 19:04	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1	U		11/06/2017 19:04	RLD	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1	U		11/06/2017 19:04	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 19:04	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 19:04	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 19:04	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 19:04	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1	U		11/06/2017 19:04	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1	U		11/06/2017 19:04	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 19:04	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:04	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 19:04	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1	U		11/06/2017 19:04	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944851 Sample Description: 54 DNR License/Well #: 0719/281 Sampled: 10/30/2017 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	CLEAR		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	882	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.53	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	10.7	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Alkalinity	340	mg/L	4.0	4.0	1			11/07/2017 15:30	BKB	SM 2320B
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 13:56	SAW	EPA 335.4
Metals Results										
Total Barium	82.3	ug/L	0.70	2.5	1			11/02/2017 07:59	NAH	EPA 200.7
Total Beryllium	<0.38	ug/L	0.38	1.3	1	U		11/02/2017 07:59	NAH	EPA 200.7
Total Cadmium	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 07:59	NAH	EPA 200.7
Total Calcium	79400	ug/L	31	110	1			11/02/2017 07:59	NAH	EPA 200.7
Total Chromium	<2.0	ug/L	2.0	8.0	1	U		11/02/2017 07:59	NAH	EPA 200.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944851 Sample Description:54 DNR License/Well #: 0719/281 Sampled: 10/30/2017 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Copper	9.2	ug/L	3.9	13	1	J		11/02/2017 07:59	NAH	EPA 200.7
Total Iron	<59	ug/L	59	200	1	U		11/02/2017 07:59	NAH	EPA 200.7
Total Magnesium	37500	ug/L	25	84	1			11/02/2017 07:59	NAH	EPA 200.7
Total Manganese	8.1	ug/L	2.2	7.3	1			11/02/2017 07:59	NAH	EPA 200.7
Total Zinc	37.1	ug/L	2.2	7.3	1			11/02/2017 07:59	NAH	EPA 200.7
Total Antimony	<0.60	ug/L	0.60	1.9	1	U		11/01/2017 10:26	MDS	EPA 200.9
Total Arsenic	<0.60	ug/L	0.60	2.1	1	U	11/02/2017 09:15	11/03/2017 11:03	MDS	EPA 200.9
Total Lead	<0.43	ug/L	0.43	1.4	1	U		11/01/2017 12:59	MDS	EPA 200.9
Total Selenium	<1.0	ug/L	1.0	3.4	1	U	11/02/2017 09:15	11/08/2017 09:15	MDS	EPA 200.9
Total Thallium	<0.19	ug/L	0.19	0.61	1	U	11/02/2017 09:15	11/10/2017 10:52	MDS	EPA 200.9
Total Sodium	49.10	mg/L	0.030	0.10	1			11/06/2017 09:05	MDS	EPA 200.7
Total Hardness	353	mg/L	0.18	0.61	1			11/02/2017 07:59	NAH	SM 2340B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:34	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944851 Sample Description:54 DNR License/Well #: 0719/281 Sampled: 10/30/2017 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 19:34	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 19:34	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:34	RLD	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:34	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 19:34	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:34	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:34	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	U		11/06/2017 19:34	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 19:34	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:34	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 19:34	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 19:34	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:34	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	U		11/06/2017 19:34	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	U		11/06/2017 19:34	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1	U		11/06/2017 19:34	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 19:34	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1	U		11/06/2017 19:34	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1	U		11/06/2017 19:34	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944851 Sample Description:54 DNR License/Well #: 0719/281 Sampled: 10/30/2017 1250

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 19:34	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 19:34	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1	U		11/06/2017 19:34	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1	U		11/06/2017 19:34	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 19:34	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1	U		11/06/2017 19:34	RLD	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1	U		11/06/2017 19:34	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 19:34	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 19:34	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 19:34	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 19:34	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1	U		11/06/2017 19:34	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1	U		11/06/2017 19:34	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 19:34	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 19:34	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 19:34	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1	U		11/06/2017 19:34	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944853 Sample Description: 1916 DNR License/Well #: 0719/X01 Sampled: 10/30/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	CLEAR		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	990	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.35	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	10.8	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	NONE		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Alkalinity	330	mg/L	4.0	4.0	1			11/07/2017 15:30	BKB	SM 2320B
Total Cyanide	<0.0040	mg/L	0.0040	0.013	1	U	11/07/2017 12:00	11/07/2017 14:00	SAW	EPA 335.4
Metals Results										
Total Barium	62.3	ug/L	0.70	2.5	1			11/02/2017 08:06	NAH	EPA 200.7
Total Beryllium	<0.38	ug/L	0.38	1.3	1	U		11/02/2017 08:06	NAH	EPA 200.7
Total Cadmium	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 08:06	NAH	EPA 200.7
Total Calcium	92700	ug/L	31	110	1			11/02/2017 08:06	NAH	EPA 200.7
Total Chromium	<2.0	ug/L	2.0	8.0	1	U		11/02/2017 08:06	NAH	EPA 200.7

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944853 Sample Description:1916 DNR License/Well #: 0719/X01 Sampled: 10/30/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Copper	7.6	ug/L	3.9	13	1	J		11/02/2017 08:06	NAH	EPA 200.7
Total Iron	<59	ug/L	59	200	1	U		11/02/2017 08:06	NAH	EPA 200.7
Total Magnesium	43300	ug/L	25	84	1			11/02/2017 08:06	NAH	EPA 200.7
Total Manganese	<2.2	ug/L	2.2	7.3	1	U		11/02/2017 08:06	NAH	EPA 200.7
Total Zinc	11.4	ug/L	2.2	7.3	1			11/02/2017 08:06	NAH	EPA 200.7
Total Antimony	<0.60	ug/L	0.60	1.9	1	U		11/01/2017 10:30	MDS	EPA 200.9
Total Arsenic	<0.60	ug/L	0.60	2.1	1	U	11/02/2017 09:15	11/03/2017 11:09	MDS	EPA 200.9
Total Lead	<0.43	ug/L	0.43	1.4	1	U		11/01/2017 13:05	MDS	EPA 200.9
Total Selenium	<1.0	ug/L	1.0	3.4	1	U	11/02/2017 09:15	11/08/2017 09:21	MDS	EPA 200.9
Total Thallium	<0.19	ug/L	0.19	0.61	1	U	11/02/2017 09:15	11/10/2017 11:10	MDS	EPA 200.9
Total Sodium	54.30	mg/L	0.030	0.10	1			11/06/2017 09:08	MDS	EPA 200.7
Total Hardness	410	mg/L	0.18	0.61	1			11/02/2017 08:06	NAH	SM 2340B
Organic Results										
1,1,1,2-Tetrachloroethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,1,1-Trichloroethane	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,1,2,2-Tetrachloroethane	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.3	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,1-Dichloroethane	<0.28	ug/L	0.28	0.95	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,1-Dichloroethene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,1-Dichloropropene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,2,3-Trichlorobenzene	<0.50	ug/L	0.50	1.6	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,2,3-Trichloropropane	<0.25	ug/L	0.25	0.83	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,2,4-Trichlorobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,2,4-Trimethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,2-Dichlorobenzene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:03	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944853 Sample Description:1916 DNR License/Well #: 0719/X01 Sampled: 10/30/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2-Dichloroethane	<0.23	ug/L	0.23	0.76	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,2-Dichloropropane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,3,5-Trimethylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,3-Dichlorobenzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,3-Dichloropropane	<0.30	ug/L	0.30	1.1	1	U		11/06/2017 20:03	RLD	EPA 524.2
1,4-Dichlorobenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 20:03	RLD	EPA 524.2
2,2-Dichloropropane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:03	RLD	EPA 524.2
2-Chlorotoluene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
4-Chlorotoluene	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:03	RLD	EPA 524.2
Benzene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 20:03	RLD	EPA 524.2
Bromobenzene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:03	RLD	EPA 524.2
Bromochloromethane	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:03	RLD	EPA 524.2
Bromodichloromethane	<0.24	ug/L	0.24	0.81	1	U		11/06/2017 20:03	RLD	EPA 524.2
Bromoform	<0.40	ug/L	0.40	1.2	1	U		11/06/2017 20:03	RLD	EPA 524.2
Bromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:03	RLD	EPA 524.2
Carbon tetrachloride	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 20:03	RLD	EPA 524.2
Chlorobenzene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 20:03	RLD	EPA 524.2
Chlorodibromomethane	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:03	RLD	EPA 524.2
Chloroethane	<0.30	ug/L	0.30	1.3	1	U		11/06/2017 20:03	RLD	EPA 524.2
Chloroform	<0.23	ug/L	0.23	0.78	1	U		11/06/2017 20:03	RLD	EPA 524.2
Chloromethane	<0.19	ug/L	0.19	0.63	1	U		11/06/2017 20:03	RLD	EPA 524.2
cis-1,2-Dichloroethene	<0.28	ug/L	0.28	0.94	1	U		11/06/2017 20:03	RLD	EPA 524.2
cis-1,3-Dichloropropene	<0.22	ug/L	0.22	0.73	1	U		11/06/2017 20:03	RLD	EPA 524.2
Dibromomethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
Dichlorodifluoromethane	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
Ethylbenzene	<0.27	ug/L	0.27	0.89	1	U		11/06/2017 20:03	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944853 Sample Description:1916 DNR License/Well #: 0719/X01 Sampled: 10/30/2017 1000

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Hexachlorobutadiene	<0.40	ug/L	0.40	1.4	1	U		11/06/2017 20:03	RLD	EPA 524.2
Isopropylbenzene	<0.29	ug/L	0.29	0.98	1	U		11/06/2017 20:03	RLD	EPA 524.2
Methyl tert-butyl ether	<0.26	ug/L	0.26	0.86	1	U		11/06/2017 20:03	RLD	EPA 524.2
Methylene chloride	<0.30	ug/L	0.30	0.99	1	U		11/06/2017 20:03	RLD	EPA 524.2
n-Butylbenzene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
n-Propylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 20:03	RLD	EPA 524.2
Naphthalene	<0.50	ug/L	0.50	1.5	1	U		11/06/2017 20:03	RLD	EPA 524.2
p-Isopropyltoluene	<0.25	ug/L	0.25	0.82	1	U		11/06/2017 20:03	RLD	EPA 524.2
sec-Butylbenzene	<0.26	ug/L	0.26	0.85	1	U		11/06/2017 20:03	RLD	EPA 524.2
Styrene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
tert-Butylbenzene	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 20:03	RLD	EPA 524.2
Tetrachloroethene	<0.26	ug/L	0.26	0.87	1	U		11/06/2017 20:03	RLD	EPA 524.2
Toluene	<0.25	ug/L	0.25	0.84	1	U		11/06/2017 20:03	RLD	EPA 524.2
Total Xylene	<0.26	ug/L	0.26	0.88	1	U		11/06/2017 20:03	RLD	EPA 524.2
trans-1,2-Dichloroethene	<0.23	ug/L	0.23	0.75	1	U		11/06/2017 20:03	RLD	EPA 524.2
trans-1,3-Dichloropropene	<0.28	ug/L	0.28	0.93	1	U		11/06/2017 20:03	RLD	EPA 524.2
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/06/2017 20:03	RLD	EPA 524.2
Trichlorofluoromethane	<0.24	ug/L	0.24	0.80	1	U		11/06/2017 20:03	RLD	EPA 524.2
Vinyl chloride	<0.17	ug/L	0.17	0.58	1	U		11/06/2017 20:03	RLD	EPA 524.2

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944855 Sample Description: LEACHATE WET WELL DNR License/Well #: 0719/339 Sampled: 10/30/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Field Results										
Color (Field)	YELLOW		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Conductivity (Field)	2930	umhos/cm	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Odor (Field)	SLIGHT		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
pH (Field)	7.58	S.U.	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Temperature (Field)	11.9	Deg. C	N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Turbidity (Field)	LOW		N/A	N/A	1			10/30/2017 00:00	SUB	FIELD
Inorganic Results										
Total Kjeldahl Nitrogen	67	mg/L	5.2	17	10		11/01/2017 10:00	11/03/2017 12:08	LJS	EPA 351.2
Total Chloride	330	mg/L	7.0	24	10			11/11/2017 14:58	DGS	EPA 9056A
Total Sulfate	24	mg/L	10	32	10	J		11/11/2017 14:58	DGS	EPA 9056A
Total Cyanide	0.011	mg/L	0.0040	0.013	1	J M	11/07/2017 12:00	11/07/2017 14:03	SAW	EPA 9012A
Alkalinity	1100	mg/L	4.0	4.0	1			11/07/2017 15:00	BKB	SM 2320B
Nitrate+Nitrite Nitrogen Total	49	mg/L	0.32	1.1	5	M		11/13/2017 13:54	SAW	EPA 353.2
Metals Results										
Total Antimony	<3.0	ug/L	3.0	9.0	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944855 Sample Description:LEACHATE WET WELL DNR License/Well #: 0719/339 Sampled: 10/30/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Total Arsenic	<3.0	ug/L	3.0	10	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Barium	168	ug/L	1.0	3.3	1		11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Beryllium	<0.29	ug/L	0.29	0.97	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Cadmium	<0.30	ug/L	0.30	1.1	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Calcium	119	mg/L	0.024	0.079	1		11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Chromium	<5.0	ug/L	5.0	17	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Copper	10.9	ug/L	4.4	15	1	J	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Lead	2.7	ug/L	1.4	4.6	1	J	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Magnesium	99.5	mg/L	0.016	0.055	1		11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Manganese	94.3	ug/L	3.4	11	1		11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Selenium	<4.0	ug/L	4.0	13	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Thallium	<2.2	ug/L	2.2	7.5	1	U	11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Zinc	11.3	ug/L	2.8	9.4	1		11/02/2017 12:46	11/03/2017 20:47	NAH	EPA 6010C
Total Sodium	208	mg/L	0.20	0.70	2	M	11/02/2017 12:46	11/06/2017 15:55	MDS	EPA 6010C
Total Hardness	707	mg/L	0.13	0.42	1		11/02/2017 12:46	11/03/2017 20:47	NAH	SM2340B/6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 20:59	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944855 Sample Description:LEACHATE WET WELL DNR License/Well #: 0719/339 Sampled: 10/30/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 20:59	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1	U		11/02/2017 20:59	AGK	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 20:59	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1	U		11/02/2017 20:59	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1	U		11/02/2017 20:59	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1	U		11/02/2017 20:59	AGK	EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1	U		11/02/2017 20:59	AGK	EPA 8260C
Benzene	0.38	ug/L	0.24	0.81	1	J		11/02/2017 20:59	AGK	EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 20:59	AGK	EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1	U		11/02/2017 20:59	AGK	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 20:59	AGK	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 20:59	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944855 Sample Description:LEACHATE WET WELL DNR License/Well #: 0719/339 Sampled: 10/30/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Chlorobenzene	1.1	ug/L	0.50	1.5	1	J		11/02/2017 20:59	AGK	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 20:59	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1	U		11/02/2017 20:59	AGK	EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 20:59	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 20:59	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1	U		11/02/2017 20:59	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 20:59	AGK	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1	U		11/02/2017 20:59	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 20:59	AGK	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 20:59	AGK	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 20:59	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 20:59	AGK	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 20:59	AGK	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 20:59	AGK	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 20:59	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 20:59	AGK	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 20:59	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 20:59	AGK	EPA 8260C
Tetrahydrofuran	21	ug/L	3.0	10	1			11/02/2017 20:59	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944855 Sample Description:LEACHATE WET WELL DNR License/Well #: 0719/339 Sampled: 10/30/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Toluene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 20:59	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 20:59	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 20:59	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 20:59	AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 20:59	AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1	U		11/02/2017 20:59	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944856 Sample Description: LEACHATE WET WELL DNR License/Well #: 0719/339 Sampled: 10/30/2017 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Sample Filtration			N/A	N/A	1			11/01/2017 08:00	NAH	SOP #PR007
Metals Results										
Dissolved Iron	0.0862	mg/L	0.059	0.20	1	J		11/02/2017 21:12	NAH	EPA 6010C
Dissolved Manganese	88.2	ug/L	2.2	7.3	1			11/02/2017 21:12	NAH	EPA 6010C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944857 Sample Description: TRIP BLANK DNR License/Well #: 0719/999 Sampled: 10/30/2017

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944857 Sample Description:TRIP BLANK DNR License/Well #: 0719/999 Sampled: 10/30/2017

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:57	AGK	EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1	U		11/02/2017 13:57	AGK	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:57	AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1	U		11/02/2017 13:57	AGK	EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1	U		11/02/2017 13:57	AGK	EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1	U		11/02/2017 13:57	AGK	EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1	U		11/02/2017 13:57	AGK	EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1	U		11/02/2017 13:57	AGK	EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:57	AGK	EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1	U		11/02/2017 13:57	AGK	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:57	AGK	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:57	AGK	EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1	U		11/02/2017 13:57	AGK	EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1	U		11/02/2017 13:57	AGK	EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 13:57	AGK	EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 13:57	AGK	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

CT LAB#: 944857 Sample Description:TRIP BLANK DNR License/Well #: 0719/999 Sampled: 10/30/2017

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Dibromomethane	<0.80	ug/L	0.80	2.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1	U		11/02/2017 13:57	AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:57	AGK	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1	U		11/02/2017 13:57	AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:57	AGK	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:57	AGK	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 13:57	AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1	U		11/02/2017 13:57	AGK	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:57	AGK	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1	U		11/02/2017 13:57	AGK	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1	U		11/02/2017 13:57	AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1	U		11/02/2017 13:57	AGK	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1	U		11/02/2017 13:57	AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1	U		11/02/2017 13:57	AGK	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1	U		11/02/2017 13:57	AGK	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:57	AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1	U		11/02/2017 13:57	AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1	U		11/02/2017 13:57	AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1	U		11/02/2017 13:57	AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1	U		11/02/2017 13:57	AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1	U		11/02/2017 13:57	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

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Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

Current CT Laboratories Certifications

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944859 Sample Description: 11 DNR License/Well #: 0719/235 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U	11/01/2017 10:00	11/03/2017 10:54	LJS	EPA 351.2
Nitrate Nitrogen Total	3.5	mg/L	0.040	0.13	1	M		10/31/2017 18:00	DGS	EPA 300.0
Nitrite Nitrogen Total	<0.040	mg/L	0.040	0.12	1	U		10/31/2017 18:00	DGS	EPA 300.0
Total Chloride	150	mg/L	7.0	24	10			11/01/2017 15:12	DGS	EPA 300.0
Total Sulfate	21	mg/L	1.0	3.2	1			10/31/2017 18:00	DGS	EPA 300.0

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

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Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944860 Sample Description: 15 DNR License/Well #: 0719/239 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U	11/01/2017 10:00	11/03/2017 10:55	LJS	EPA 351.2
Nitrate Nitrogen Total	1.4	mg/L	0.040	0.13	1			10/31/2017 18:50	DGS	EPA 300.0
Nitrite Nitrogen Total	<0.040	mg/L	0.040	0.12	1	U		10/31/2017 18:50	DGS	EPA 300.0
Total Chloride	30	mg/L	0.70	2.4	1			10/31/2017 18:50	DGS	EPA 300.0
Total Sulfate	56	mg/L	1.0	3.2	1			10/31/2017 18:50	DGS	EPA 300.0

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

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Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
T	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Y	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

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Virginia NELAP Lab ID# 460203
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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944861 Sample Description: 54 DNR License/Well #: 0719/281 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U	11/01/2017 10:00	11/03/2017 10:56	LJS	EPA 351.2
Nitrate Nitrogen Total	<0.040	mg/L	0.040	0.13	1	U		10/31/2017 19:41	DGS	EPA 300.0
Nitrite Nitrogen Total	<0.040	mg/L	0.040	0.12	1	U		10/31/2017 19:41	DGS	EPA 300.0
Total Chloride	89	mg/L	7.0	24	10			11/01/2017 16:02	DGS	EPA 300.0
Total Sulfate	52	mg/L	1.0	3.2	1			10/31/2017 19:41	DGS	EPA 300.0

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

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Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
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V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
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REVISED
ANALYTICAL REPORT

ENVIRONMENTAL SAMPLING CORP.
FRANK PERUGINI
W125 S9808 NORTH CAPE ROAD
MUSKEGO, WI 53150

Project Name: DELAFIELD LF
Project Phase:
Project #:
Folder #: 131923
Purchase Order #:
Contract #: 3123

Arrival Temperature: See COC
Report Date: 11/20/2017
Date Received: 10/31/2017
Reprint Date: 12/05/2017
Revision Dat 12/05/2017

CT LAB#: 944862 Sample Description: 1916 DNR License/Well #: 0719/X01 Sampled: 10/30/2017 1320

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Total Kjeldahl Nitrogen	<0.52	mg/L	0.52	1.7	1	U	11/01/2017 10:00	11/03/2017 10:57	LJS	EPA 351.2
Nitrate Nitrogen Total	5.3	mg/L	0.040	0.13	1			10/31/2017 19:57	DGS	EPA 300.0
Nitrite Nitrogen Total	<0.040	mg/L	0.040	0.12	1	U		10/31/2017 19:57	DGS	EPA 300.0
Total Chloride	150	mg/L	7.0	24	10			11/01/2017 16:19	DGS	EPA 300.0
Total Sulfate	29	mg/L	1.0	3.2	1			10/31/2017 19:57	DGS	EPA 300.0

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

Notes: All LOD/LOQs are adjusted to reflect dilution, percent solids, and any differences in the sample weight / volume as compared to standard amounts. "U" qualifier indicates concentration of analyte was below the detection limit. "J" qualifer indicates an estimated value between the LOD and LOQ.

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Submitted by: Eric T. Korthals
Project Manager
608-356-2760

Reason for Revis Incorrect calibration information

QC Qualifiers

Code	Description
B	Analyte detected in the associated Method Blank.
C	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
H	Holding time exceeded.
I	BOD incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
O	Complete BOD oxygen depletion.
P	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
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ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002
Pennsylvania NELAP Lab ID# 68-04201, # 008

Rev. 02/2017

CHAIN OF CUSTODY

Page 1 of 1

Company: ESC
Project Contact: Frank Perugini
Telephone: 414-497-5033
Project Name: Delafield
Project #: 10/2017
Location: Delafield, WI
Sampled By: Scott Freimark

CT LABORATORIES

1230 Lange Court, Baraboo, WI 53913
608-356-2760 Fax 608-356-2766
www.ctlaboratories.com

Folder #: 131923
Company: ENVIRONMENTAL SA
Project: DELAFIELD LF
Logged By: BNA PM: BM

Program:
QSM RCRA SDWA NPDES
Solid Waste Other _____

PO #

Report To: ESC - Frank Perugini
EMAIL: escstaff@yahoo.com
Company: ESC
Address: P.O. Box 12 Mukwonago WI 53150
Invoice To:*
EMAIL:
Company: Same as Report to:
Address:

*Party listed is responsible for payment of invoice as per CT Laboratories' terms and conditions

Client Special Instructions
Please use the attached sheet for Analytical Request
F = Field Filtered

Matrix:
GW – groundwater SW - surface water WW - wastewater DW - drinking water
S - soil/sediment SL - sludge A - air M - misc/waste

Collection Date	Collection Time	Matrix	Grab/ Comp	Sample #	Sample ID Description	Filtered? Y/N	P-None	P-HNO3	P-H2SO4	P-NaOH	V-Hcl	Total # Containers	Designated MS/MSD	CT Lab ID # (Lab use only)
10/30/17	0915	GW	G		NR-2A		1	1/1F	1	1	3	8		944840/857
10/30/17	1130	GW	G		NR-2B		1	1/1F	1	1	3	8		944848/832
—	—	—	—	—	Trip Blank		—	—	—	—	1	1		944833
10/30/17	1320	DW	G		11		1	1	1	1	3	7		944840/859
	1410	DW			15		1	1	1	1	3	7		944849/860
	1520	DW			54		1	1	1	1	3	7		944851/861
	1000	DW			19/6		1	1	1	1	3	7		944853/862
10/30/17	1200	GW	G		Leachate Wet well		1	1	1	1	3	7		944855/856
—	—	—	—	—	Trip Blank		—	—	—	—	1	1		944857

ANALYSES REQUESTED

Fill in Spaces with Bottles per Test

Turnaround Time
Normal RUSH*
Date Needed: _____
Rush analysis requires prior CT Laboratories' approval
Surcharges:
24 hr 200%
2-3 days 100%
4-9 days 50%

Relinquished By:	Date/Time	Received By:	Date/Time
	10/30/17 1600		10/31/17 1235
Received by:	Date/Time	Received for Laboratory by:	Date/Time
			10/31/17 1452

Lab Use Only
Ice Present (Yes) No
Temp 1.3 IR Gun 15
Cooler # 5720, 5255

5992