

SITE INVESTIGATION REPORT

For

Da Swamp Bar W2490 Hofa Park Drive Seymour, Wisconsin 54165

WDNR BRRTS No. 03-59-547440

Prepared For

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EXECUTIVE SUMMARY

This Site Investigation Report (SIR) summarizes the site activities associated with defining the degree and extent of identified petroleum contamination. The environmental activities performed were administered to comply with Wisconsin Administrative Code (WAC), NR 700 for the cleanup of petroleum contamination and consisted of Geoprobe soil borings, soil sample collection, monitoring well installation, groundwater sampling, hydraulic conductivity testing and sub-slab vapor screening.

Da Swamp Bar, is located in the town of Maple Grove, Shawano County, Wisconsin. The site is currently operated as a Da Swamp Bar.

Laboratory analytical results associated with a site assessment soil sampling completed on May 8, 2006, by STS Consultants LTD (STS) confirmed the presence of petroleum contamination in site soils. The petroleum release was reported to the Wisconsin Department of Natural Resources (WDNR) on June 6, 2006. A Responsible Party (RP) letter was issued to Ms. Lucille Van Lannen, dated June 6, 2006, outlining the obligation to restore the environment at the property. On July 8, 2008, the WDNR issued a new RP letter to Da Swamp, LLC.

Endeavor was retained under an Agent Contract with the Responsible Party (Da Swamp Bar, LLC) and WDNR on October 7, 2011, to complete a site investigation and remedial activities associated with the confirmed petroleum soil and groundwater contamination. Endeavor prepared a Site Investigation Work Plan (SIWP) dated October 31, 2011, which was submitted to the WDNR.

As part of the site investigation, a total of eighteen soil borings (GP-1 thru GP-8, and MW-1 thru MW-5/5R, MW-10, MW-11, MW-20, MW-21 and PZ-1) were installed through the course of investigation activities. A total of twenty-eight soil samples were collected and submitted for laboratory analysis of one or more of the following: volatile organic compounds (VOCs), petroleum volatile organic compounds (PVOCs), naphthalene, polycyclic aromatic hydrocarbons (PAHs) and total lead. The soil sample laboratory analytical results have identified benzene, ethylbenzene, toluene, total xylenes, 1,2,4-trimethylbenzene (TMB), 1,3,5-TMB and naphthalene concentrations above calculated residual contaminant levels (RCLs) (groundwater protection and/or direct contact) in soil samples GP-3, GP-4, GP-5, GP-6, and GP-7. The extent of petroleum soil contamination has been adequately defined by the soil boring configuration. Soil sample laboratory analytical results illustrate that pre-remedial residual petroleum soil contamination exceeding calculated WAC, NR720 RCLs (groundwater protection) were present on the subject property. The soil contaminant plume extends east from the former underground storage tanks (USTs) to the former dispenser location. Site soils consisted of a loamy sand over dolomite bedrock which was encountered at approximately 13.5 feet below ground surface (bgs).



Ten soil borings were installed and constructed as WAC, NR 141 groundwater monitoring points (MW-1 thru MW-5/5R, MW-10, MW-11, MW-20 and MW-21) and one piezometer (PZ-1). The groundwater table has been measured during site well sampling activities and indicates the site groundwater depth ranged from 2.99 feet bgs (monitoring well MW-20) to 9.28 feet bgs (monitoring well MW-11). The groundwater monitoring well network was surveyed and the groundwater flow direction extends to the south from the subject property. The subject site also contains potable well near the southwest corner of the bar building and a sump is located along the south interior basement wall of the bar building. Hydraulic conductivity testing was performed on source monitoring well MW-5 and downgradient monitoring well MW-10. Hydraulic gradient was calculated at 0.0125 ft/ft during the March 12, 2018, sampling event. Endeavor performed four groundwater sampling events during which groundwater samples were collected from a combination of monitoring wells and the potable and submitted for laboratory analysis of VOCs, PVOCs plus naphthalene and PAHs. The groundwater sample laboratory analytical results reported contaminant concentrations exceeding WAC, NR 140 enforcement standards (ESs) or preventive action limits (PALs) in groundwater monitoring wells MW-2, MW-5/5R and MW-10. Contaminants reported at concentrations exceeding their respective WAC, NR 140 ESs or PALs included: benzene, ethylbenzene, toluene, total xylenes, total TMBs, MTBE and naphthalene. All remaining analyzed contaminant concentrations were reported to be below their respective WAC, NR 140 ESs or PALs. The extent of groundwater contamination has been adequately defined by the groundwater monitoring well network. Groundwater monitoring has revealed that residual groundwater contamination exceeding WAC, NR 140 ESs remains on-site. The groundwater contaminant plume also extends south from the former UST basin and dispenser locations across the Hofa Park Drive right-of-way.

Endeavor performed three indoor air sampling events within the occupied bar building. Samples collected via Summa cannister were submitted for the TO-15 full list VOC analysis. Laboratory analytical results reported no detections of analyzed constituents above the Noncancer Hazard Index.

Endeavor completed a source excavation on May 16-17, 2016, at the subject property. A total of 537.83 tons of petroleum impacted soils were removed and transported off-site for disposal. Excavation activities and confirmation soil sampling results were detailed in the Excavation Summary dated December 31, 2018, prepared by Endeavor and submitted to the WDNR.

Site investigation activities outlined above have adequately defined the site soil and groundwater contaminant plumes associated with the site petroleum release



1.0 INTRODUCTION AND BACKGROUND

1.1 Responsible Party Information

Da Swamp Bar, LLC Contact: Linda Van Gheem W2490 Hofa Park Drive Seymour, Wisconsin 54165 Phone: (920) 373-6733

1.2 Consultant Information

Endeavor Environmental Services, Inc. 2280-B Salscheider Court Green Bay, Wisconsin 54313 Contact: Joseph M. Ramcheck, P.H.

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e-mail: jramcheck@endeavorenv.com

1.3 Site Location and Description

The Parcel Identification Number (PIN) is 030-18330-0010. The address is W2490 Hofa Park Drive, Seymour, WI. The subject property is subject property is located in the SW1/4 of the SW1/4, Section 18, Township 25 North, Range 18 East, Township of Maple Grove, Shawano County, WI. Figure 1 illustrates the site location.

The Wisconsin Transverse Mercator 91 (WTM91) coordinates for the corner boundaries of the subject property were determined from the WDNR RR sites map. The parcel boundaries were extrapolated from an on-line parcel map, from the Sheboygan County GIS website and transferred to the WDNR RR sites map using features from the aerial photo. The WTM91 coordinates obtained from the WDNR RR sites map are commencing at the northwest property corner and proceed clockwise are:

649,736 (x), 463,324 (y) 649,920 (x), 463,324 (y) 649,919 (x), 463,279 (y) 649,735 (x), 463,279 (y)

The subject property is currently operated as Da Swamp Bar. The subject property formerly operated as a retail fuel distributer which used a petroleum storage and distribution system consisting of two 550-gallon unleaded gasoline USTs and one 550-gallon kerosene UST. The



Figure 1 - Site Location





subject property is serviced by public utilities including electric and phone. Figure 2 and 2a illustrates the Site Plan View Overview and Detail, respectively.

The subject property is serviced by the following public utilities: electric and telephone. The surrounding property use is agricultural. Wisconsin Geologic and Natural History Survey (WGNHS) well records were reviewed in preparation of this SIWP. The WGNHS records identified four wells in the quarter section surrounding the subject property. Based upon the reviewed information, the identified potable wells range from 142 to 337 feet below the ground surface. All of these wells were outfitted with 6-inch steel casing.

The site is bordered to the north, east and south, across Hofa Park Drive, by agricultural land. Adjacent land use west across the right-of-way for County Hwy F is also agricultural.

1.4 Previous Environmental Activities

November 1, 1989, three USTs were closed and removed from the site.

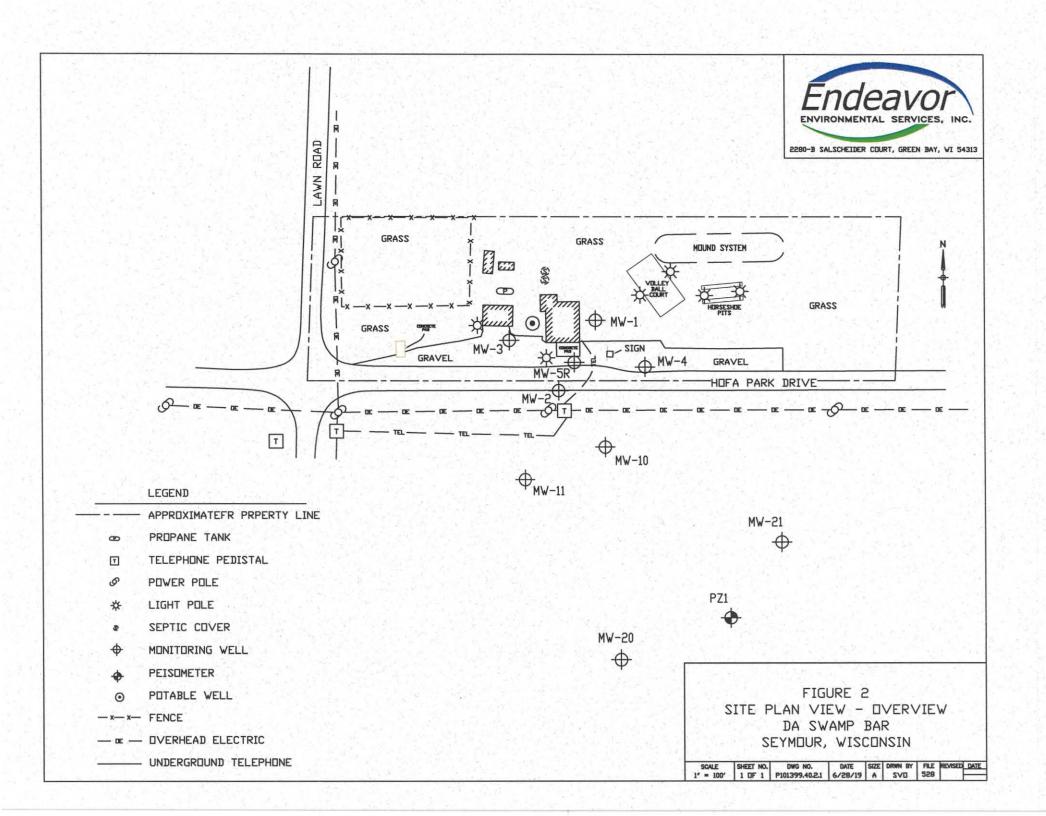
On May 8, 2006, STS Consultants LTD coordinated the installation of a test pit as part of site assessment soil sampling activates. A total of two soil samples were submitted to Pace Analytical Services, Inc. of Green Bay, WI, for laboratory analysis of PVOCs, PAHs and total lead.

Soil sample laboratory analytical results reported detections of analyzed constituents in soil sample TP-1 S-3 4'-5'. Soil sample laboratory analytical results reported detections of 1,2,4-TMB (19,000 ppb), 1,3,5-TMB (3,600 ppb), ethylbenzene (1,800 ppb), total xylenes (2,310 ppb) 1-methylnaphthalene (2,000 ppb), 2-methylnaphthalene (4,200 ppb), naphthalene (1,500 ppb) and lead (19 ppm). Lead was detected in soil sample TP-1 S-3 5'-6' at a concentration of 3.7 ppm. All other analyzed constituents were below their respective laboratory reporting limits. Soil sample laboratory analytical results are summarized in Table A.1.

On June 6, 2006, STS Consultants LTD notified the WDNR of the confirmed petroleum soil contamination.

On June 6, 2006, the WDNR issued an RP letter to Mrs. Lucille Van Lannen, outlining her responsibility to restore the environment.

On July 8, 2008, the WDNR issued a new RP letter to Da Swamp, LLC, outlining their responsibility to restore the environment.



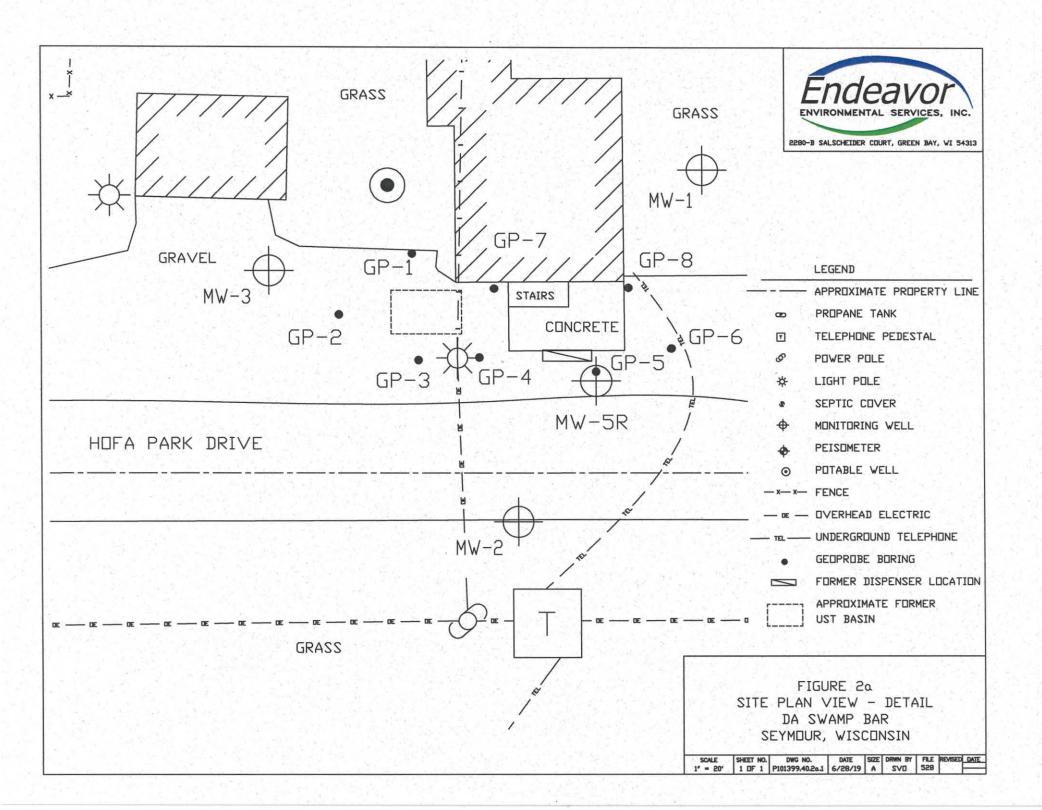


Table A.1 Soil Analytical Results Da Swamp Bar Pulaski, Wisconsin

Sample ID	Sample Date	Sample Depth (feet bgs)	Benzene	Ethyl- benzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	МТВЕ	Naphthalene	cis - 1, 2 Dichloroethene	sec- Butylbenzene	n-Butylbenzene	Isopropylb enzene	n-Propylbenzene	p- Isopropyl toluene	Lead
TP-1 S-3 4'-5'	5/8/2006	4.0 - 5.0	<120	1,800	<120	2,310	19,000	3,600	<120	1,500	NA	NA	NA	NA	NA	NA	19
TP-1 S-3 5'-6'	5/8/2006	5.0 - 6.0	<25	<25	<25	<25	<25	<25	<25	<4.5	NA	NA	NA	NA	NA	NA	4
GP-1, S-2	12/12/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	NA
GP-1, S-3	12/12/2013	4.0 - 6.0	<9.2	<10	<20	<99	<26	<26	<30	<114	<24	<41	<26	<25	<24	<31	0.35
GP-1, S-4	12/12/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	N/A
GP-2, S-2	12/12/2013	2.0 - 4.0	<9.2	<10	<20	<99	<26	<26	<30	<114	<24	<41	<26	<25	<24	<31	0.93
GP-2, S-4	12/12/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	<25	NA	NA	NA	NA	NA	NA	N/
GP-3, S-2	12/12/2013	2.0 - 4.0	620	3,020	175	28,600	26,700	9,400	<30	830	<24	340	1,780	450	1,600	173	N/
GP-3, S-3	12/12/2013	4.0 - 6.0	69	150	<25	1,270	1,400	540	<25	259	NA	NA	NA	NA	NA	NA	N/
GP-3, S-4	12/12/2013	6.0 - 8.0	62	171	<20	1,370	2,180	730	<30	470	<24	<41	216	29.2 J	121	<31	N/
GP-4, S-2	12/12/2013	2.0 - 4.0	400	1,580	1,740	9,120	4,600	1,680	<25	650	NA	NA	NA .	NA .	NA	NA ·	N/
GP-4, S-3	12/12/2013	4.0 - 6.0	9,200	180,000	163,000	1,003,000	810,000	263,000	<3,000	148,000	<2,400	22,100	134,000	25,000	124,000	10,100	N/
GP-4, S-4	12/12/2013	6.0 - 8.0	4,400	32,000	34,000	162,000	83,000	32,000	<250	16,500	NA NA	NA	NA	NA	NA	NA	N
GP-5, S-1	12/12/2013	0.0 - 2.0	50,000	95,000	283,000	425,000	191,000	76,000	<250	32,000	NA	NA	NA	NA	NA .	NA	N/
GP-5, S-2	12/12/2013	2.0 - 4.0	88,000	265,000	890,000	1,300,000	590,000	179,000	<3.000	119,000	<2,400	11,200 J	68,000	21,300	92,000	5700 J	N
GP-5, S-4	12/12/2013	6.0 - 8.0	18,400	24,600	93,000	112,600	51,000	19,500	<250	NA	NA NA	NA	NA.	NA	NA	NA	0.7
GP-6, S-2	12/12/2013	2.0 - 4.0	<25	<25 .	45	<75	<25	<25	<25	NA	NA	NA	NA NA	NA	NA	NA	2.
GP-6, S-4	12/12/2013	6.0 - 8.0	17.6 J	19.4 J	72	<99	157	61 J	<30	570	<24	<41	66 J	<25	35 J	<31	N.
GP-6, S-5	12/12/2013	8.0 - 10.0	152	450	178	1,165	1,680	690	<25	500	NA NA	NA.	NA.	NA	NA	NA	N
GP-7, S-2	12/12/2013	2.0 - 4.0	<9.2	12.7 J	<20	<99	57.1	<26	<30	<114	<24	<41	<26	<25	<24	<31	N
GP-7, S-4	12/12/2013	6.0 - 8.0	1.100	2.990	2,480	14,600	8,400	3,500	<25	NA	NA NA	NA NA	NA.	NA	NA NA	NA.	<0
GP-8, S-2	12/12/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	57 J	NA NA	NA NA	NA NA	NA	NA NA	NA	N
GP-8, S-4	12/12/2013	6.0 - 8.0	<9.2	<10	<20	<99	<26	<26	<30	<114	<24	<41	<26	<25	<24	<31	<0
MW-1, 5-4	12/20/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N/
MW-2, S-2	12/20/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	NA	NA NA	NA NA	NA NA	NA	NA NA	NA	N
MW-2, 5-4	12/20/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	NA	NA NA	- NA	NA NA	NA	NA NA	NA	N.
TB-4, S-2	12/20/2013	2.0 - 4.0	<25	<25	<25	<75	<25	<25	<25	<25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N.
TB-4, S-4	12/20/2013	6.0 - 8.0	<25	<25	<25	<75	<25	<25	<25	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-1	5/16/2016	6.0	26.7 J	137	121	405	710	282	<25	186	NA NA	NA NA	NA NA	NA	NA NA	NA	N.
S-2	5/16/2016	6.5	104	390	880	1,950	1,120	350	<25	700	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-3	5/16/2016	6.5	1,950	4,800	13,200	22,500	13,000	4.800	<250	8,100	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-6	5/16/2016	7.5	5,600	24,800	34.000	124,000	75,000	28,100	<1,250	24,400	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-8	5/16/2016	6.0	890	4,200	4,500	19,300	16,600	5,900	<250	7,600	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-9	5/17/2016	6.0	38 J	74	73	212 J	1,860	640	<250	650	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-10	5/17/2016	6.0	<16	<27	<31	<99	<78	<89	<25	<87	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-10	5/17/2016	6.0	<25	72	49	567	830	285	<25	289	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	N
S-11			-	-			1000					100000	1			1	
	5/17/2016	7.5	<25	<25	<25	<75	<25	<25	<25	<25	NA NA	NA NS	NA NS	NA NS	NA NS	NA NG	N
DNR Soil to Gro		to deviate total	5.1	1,570	1,107	3,960		78.7	27	658	41.2	NS 145 000	NS 100 000	NS NS	NS	NS 152,000	2
	direct contact/non-		1,600	8,020	818,000	- 260,000	219,000	182,000	63,800	5,520	156,000	145,000	108,000	NS	NS	162,000	40
	direct contact/indu	istrial)	7,070	35,400	818,000	260,000	219,000	182,000	282,000	24,100	2,340,000	145,000	108,000	NS	NS	NS	81
ancer RCL Non-in		ALIENS OF	1,600	8,020	NS	NS	NS	NS	63,800	5,520	NS	NS	NS	NS	NS	NS	N
on Cancer RCL N			106,000	4,080,000	5,240,000	818,000	373,000	339,000	22,100,000	178,000	156,000	7,820,000	3,910,000	NS	NS	NS	40
ancer RCL Indust			7,070	35,400	NS	NS	NS	NS	282,000	24,100	NS	NS	NS	NS	NS	NS	N
on Cancer RCL In	ndustrial		587,000	27,400,000	55,300,000	3,570,000	2,390,000	2,060,000	93,000,000	830,000	2,340,000	117,000,000	58,400,000	NS	NS	NS	8

Notes:

(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

All concentrations reported are in parts per billion (ug/kg) except lead reported in parts per million (mg/kg)

Calculated RCLs are from the DNR on-line RCL spreadsheet updated December 2018

Bold value represents an exceedance of Calculated RCLs (groundwater protection)

Italics value represents an exceedance of Calculated RCLs (direct contact/ non-industrial site)
bgs: below ground surface TMB: trimethylbenzene

ppm eq: parts per million equivalent NA: not analyzed/not applicable

MTBE: methyl tert-butyl ether NS: no standard

Table A.1 (continued) Soil Sample Laboratory Analytical Results Da Swamp Bar Pulaski, Wisconsin

Polycyclic Aromatic Hydrocarbons

Sample ID	Sample Date	Sample Depth (feet bgs)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methyl- naphthalene	2-Methyl- naphthalene	Naphthalene	Phenanthrene	Pyrene
TP-1 S-3 4'-5'	5/8/2006	4.0 - 5.0	<33	<32	<40	<60	<32	<32	<40	<34	<49	<31	<32	<38	<28	2,000	4,200	1,500	<33	<28
TP-1 S-3 5'-6'	5/8/2006	5.0 - 6.0	<3.4	<3.3	<4.0	<6.0	<3.2	<3.2	<4.0	<3.5	<4.9	<3.1	<3.3	<3.9	<2.8	<3.4	<3.5	<4.5	<3.3	<2.8
GP-1, S-3	12/12/2013	4.0 - 6.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-2, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-2, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-3, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	71 J	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	89	158	550	<22.4	<23.1
GP-3, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	36 J	65 J	157	<22.4	<23.1
GP-4, S-3	12/12/2013	4.0 - 6.0	<218	<192	<195	<229	<174	<196	<227	<216	<181	<223	<211	<222	<239	35,000	68,000	68,000	330 J	<231
GP-5, S-2	12/12/2013	2.0 - 4.0	<436	<384	<390	<458	<348	<392	<454	<432	<362	<446	<422	<444	<478	19,600	34,000	30,700	<448	<462
GP-5, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	3,800	7,200	6,700	43 J	<23.1
GP-6, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	25.5 J	<22.4	<23.1
GP-7, S-2	12/12/2013	2.0 - 4.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
GP-7, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	860	1,310	1,420	<22.4	<23.1
GP-8, S-4	12/12/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
MW-1, S-4	12/20/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
MW-2, S-2	12/20/2013	2.0 - 4.0	<21.8	<19.2	<19.5	26.7 J	21 J	23.6 J	105	<21.6	<18.1	<22.3	30.7 J	<22.2	<23.9	<20.7	<20.6	<22.1	22.5 J	31.2 J
MW-2, S-4	12/20/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
TB-4, S-4	12/20/2013	6.0 - 8.0	<21.8	<19.2	<19.5	<22.9	<17.4	<19.6	<22.7	<21.6	<18.1	<22.3	<21.1	<22.2	<23.9	<20.7	<20.6	<22.1	<22.4	<23.1
alculated RCLs (groun	ndwater protection)		NS	NS	196,949	NS	470	478	NS	NS	144	NS	88,878	14,830	NS	NS	NS	658.2	NS	54,546
alculated RCLs (direct	t contact/non-industr	rial site)	3,590,000	NS	17,900,000	1,140	115	1,150	NS	11,500	115,000	115	2,390,000	2,390,000	1,150	17,600	239,000	5,520	NS	1,790,000
ancer RCL			NS	NS	NS	1,140	115	1,150	NS	11,500	115,000	115	NS	NS	1,150	17,600	NS	5,520	NS	NS
on Cancer RCL		1000	3,590,000	. NS	17,900,000	NS	17,800	NS	NS	NS	NS	NS	2,390,000	2,390,000	NS	4,180,000	239,000	178,000	NS	1,790,000

Notes:

(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

All concentrations reported are in parts per billion (ug/kg)

Calculated RCLs are from the DNR on-line RCL spreadsheet updated December 2017

Bold values represent an exceedance of Calculated RCLs (groundwater protection)

Italic values represent an exceedance of Calculated RCLs (direct contact/ non-industrial)

bgs: below ground surface

RCL: residual contaminant level

NS: no standard



On October 7, 2011, Endeavor executed an Agent Contract with Da Swamp, LLC to provide professional consulting services for site investigation and remedial activities associated with the confirmed petroleum release.

2.0 GEOLOGY AND RECEPTORS

2.1 Site Geology and Hydrogeology

According to the United States Department of Agriculture, Natural Resource Conservation Service's Web Soil Survey, the site soils consists of Solona loam. Solona loam has 0-3 percent slopes and consists of deep, somewhat poorly drained soils. Solona loam is composed of 9 inches of loam over sandy loam. Permeability of this soil is moderate. Depth to groundwater is 1-2 feet below ground surface.

Site soils observed during soil boring activities consisted primarily of sandy loam. On-site depth to groundwater measurements has shown groundwater to be located between 2.99 ft bgs (monitoring well MW-20) to 9.28 ft bgs (monitoring well MW-10). Hydraulic conductivity was averaged at 8.5 ft/day. Hydraulic gradient was calculated at 0.0125 ft/ft.

The WDNR Web View revealed that the site is located adjacent to Herman Creek.

According to the Bedrock Map of Wisconsin, University of Wisconsin – Extension Geological and Natural History Survey, date 1982, the site bedrock conditions are described as sedimentary rocks of the Paleozoic Age that correlate with the Ordovician System. The bedrock is composed of dolomite with some limestone and shale that includes the Galena, Decorah and Platteville groups. The underlying bedrock is estimated to range from 0 to 15 meters below ground surface. Site investigation activities encountered bedrock varying from 12.5 to 14 feet bgs.

Figures 3 and 4 illustrate a cross-sectional view of site geology along transect A-a" and B-B', respectively. Figures 5 and 6 illustrate the site potentiometric conditions associated with the March 12, 2018, and August 14, 2018, sampling events, respectively.

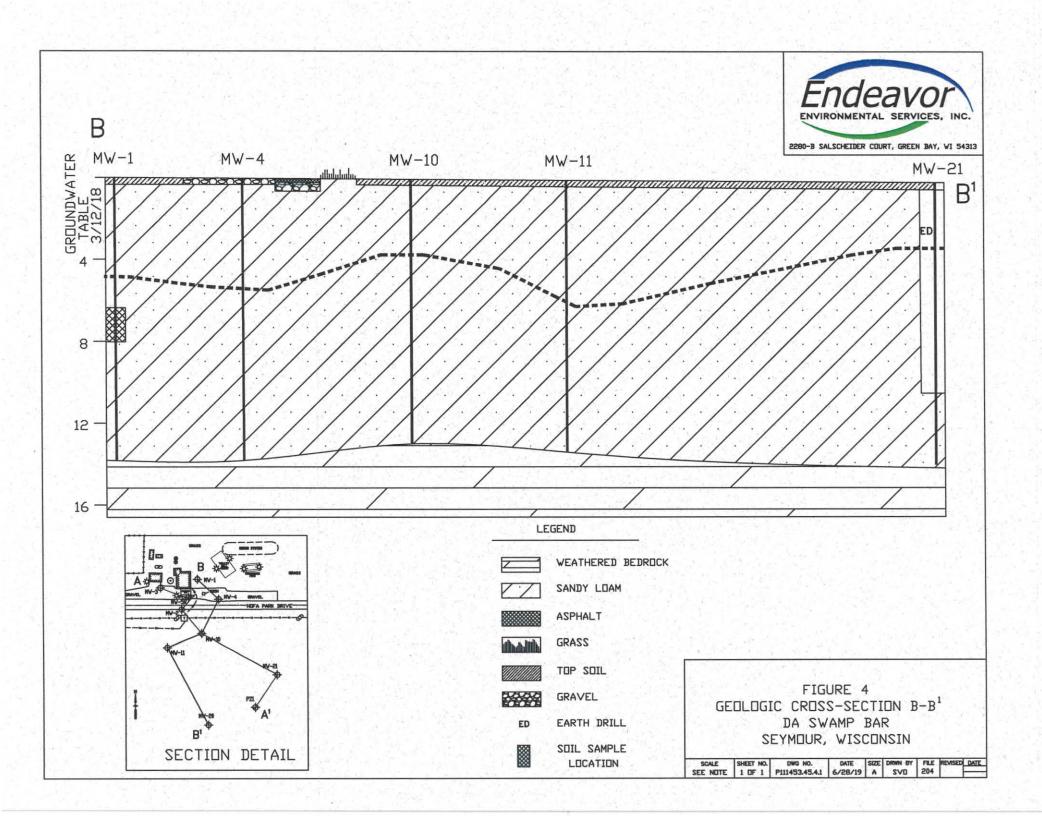
2.2 Receptors

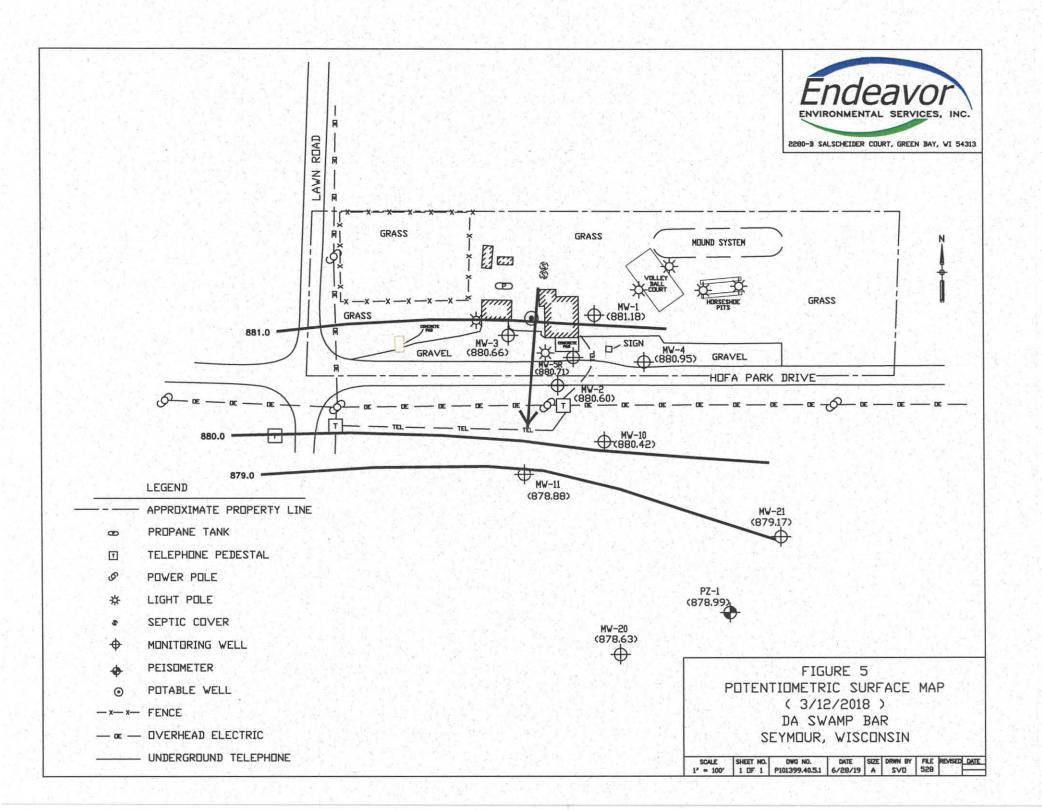
Utilities

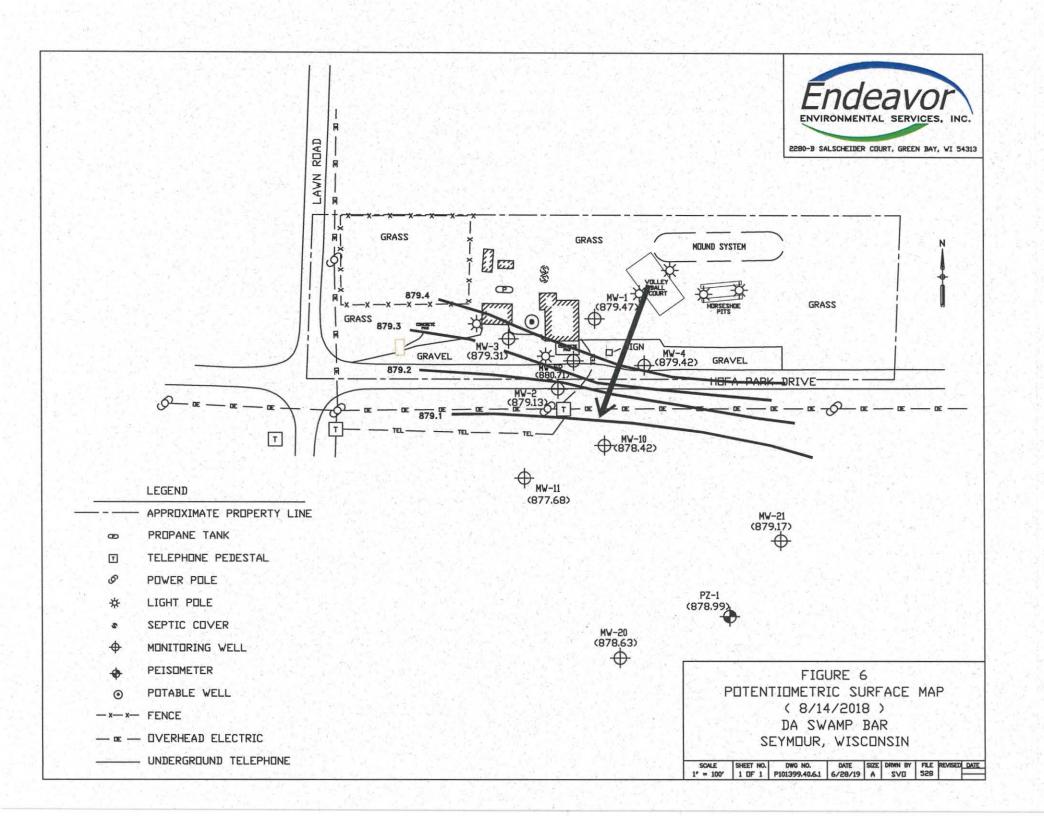
The subject property is serviced by the following public utilities: electric and telephone. The location of these utility corridors does not serve the potential as contamination migration pathways.



2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313 MW-3 MW-21 MW-10 PZ-1 GROUNDWATER TABLE 3/12/18 8 16 SCALE VERTICAL 1' = 8' HORIZONTAL 1' = 50' LEGEND 24 . LOAMY CLAY WEATHERED BEDROCK 32 SANDY LOAM GRAVEL. HOFA PARK DRIVE MEDIUM-COARSE SAND **ASPHALT** 40 -GRASS TOP SOIL GRAVEL PZ1 FIGURE 3 ED EARTH DRILL GEOLOGIC CROSS-SECTION A-A1 DA SWAMP BAR EXCAVATED AREA SEYMOUR, WISCONSIN SECTION DETAIL SOIL SAMPLE LOCATION SCALE SHEET NO. DWG NO. DATE SIZE DRWN BY FILE REVISED DATE
SEE NOTE 1 OF 1 P111453.45.3.1 6/28/19 A SVO 204









Potable Wells

The subject property is serviced by a potable well located at the southwest corner of the bar building. Well construction specifications for the site potable well are unconfirmed. The nearest adjacent potable well is located over 600 feet west of the subject property. Wisconsin Geologic and Natural History Survey (WGNHS) well records were reviewed in preparation of this SIWP. The WGNHS records identified four wells in the quarter section surrounding the subject property. Based upon the reviewed information, the identified potable wells range from 142 to 337 feet below the ground surface. All of these wells were outfitted with 6-inch steel casing.

3.0 SUMMARY OF SITE INVESTIGATION ACTIVITIES

3.1 Site Investigation Field Activities

Endeavor prepared a Site Investigation Work Plan (SIWP) that was submitted to the WDNR on October 31, 2011.

On December 12, 2013, Endeavor supervised the installation of eight Geoprobe soil borings (GP-1 thru GP-8), each extending to a depth of ten feet below ground surface by On-site Environmental Services, Inc., of Sun Prairie, WI. The soil boring locations are illustrated in Figure 2a. A total of twenty-one soil samples were collected and submitted to Synergy Environmental Lab, Inc., (Synergy) of Appleton, Wisconsin, for laboratory analysis of VOCs, PAHs, PVOCs plus naphthalene and total lead. Three groundwater samples were also collected via temporary monitoring well and submitted to Synergy for laboratory analysis of VOCs and PAHs.

Soil sample laboratory analytical results reported contaminate concentrations exceeding WAC, NR 720 RCLs indicator in each of the soil samples analyzed. Soil sample laboratory analytical results reported benzene, ethylbenzene, toluene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, n-butylbenzene, naphthalene and 1-methyl-naphthalene at concentrations exceeding WAC, NR 720 RCLs. The soil sample laboratory analytical results are summarized in Table A.1. Groundwater sample laboratory analytical results reported concentrations of benzene, ethyl-benzene, toluene, total TMBs, total xylenes and naphthalene at levels exceeding WAC, NR 140 ESs and/or PALs. The groundwater sample laboratory analytical results are summarized in Table A.2.

On December 20, 2013, Endeavor personnel oversaw the installation of five WAC, NR 141 groundwater monitoring wells (MW-1 thru MW-5) at the subject site by Geiss Soil & Samples LLC, (Geiss) of Merrill, WI. The monitoring well configuration is also depicted on Figure 2a. Groundwater monitoring wells MW-1 thru MW-5 were each installed to a depth between 13.5 and 14.5 feet below ground surface with ten feet of well screen per WAC, NR 141 requirements.

Table A.2 **Groundwater Analytical Results** Da Swamp Bar Pulaski, Wisconsin

Sample ID	Sample Date	Benzene	Ethyl- benzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	cis - 1, 2 Dicloroethene	sec- Butylbenzene	n-Butylbenzene	Isopropyl benzene	n-Propyl benzene	p-isopropyl toluene	Groundwater Depth (bgs)	Groundwate Elevation (abo msl)
GP-3	12/12/2013	5.0	4.4	0.92 J	7.7	12.4	<0.23	4.11	< 0.35	<0.33	<0.35	5.3	11.2	<0.31	(to)	
GP-5	12/12/2013	10,900	3,800	43,000	16,700	3180 J	<46	1,120	<76	<66	82 J	981	320	<62		-
GP-6	12/12/2013	86	271	29.9	464	947	<2.3	102	<3.8	13.6	65	29.2	144	5.6 J	+	- C
MW-1	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	< 0.49	<2.5	<0.42	< 0.60	<0.40	<0.34	<0.50	<0.40	5.50	880.58
	3/12/2018	<0.40	< 0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA NA	NA	NA	NA	NA	NA:	4.90	881.18
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA .	NA	NA NA	NA	NA	NA	6.61	879.47
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA NA	NA.	NA	NA	NA	NA	4.30	881.78
MW-2	12/27/2013	12,600	1,440	11,900	5,690	1,266	288	. <250	<41.9	<60.5	<40.0	38.0 J	122	<39.7	6.46	880.2
	3/12/2018	2,990	301	2,960	1,213	267.5	22.31	78.5	NA	NA:	NA	NA	NA	NA	6.06	880.6
	8/14/2018	184	24.7	108	65.2	13.1 J	1.8 J	5.2	NA.	NA	NA	NA	NA	NA	7.53	879.13
Land Held	11/30/2018	494	124	609	383	69.8	2.91	19.3	NA .	NA	NA	NA	NA	NA	5.25	881.41
MW-3	12/27/2013	<0.50	<0.50	<0.44	<1.32	<1.0	< 0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	< 0.40	6.50	880.31
	3/12/2018	<0.40	< 0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA	NA	NA	NA NA	6.15	880.66
	8/14/2018	<0.31	< 0.33	<0.49	<0.98	< 0.67	< 0.32	<0.51	NA	NA	NA .	NA	NA	NA	7.50	879.31
	11/30/2018	<0.31	< 0.33	<0.49	<0.98	< 0.67	<0.32	<0.51	NA	NA.	NA	NA	NA	NA	5.29	881.52
MW-4	12/27/2013	<0.50	< 0.50	<0.44	<1.32	<1.0	< 0.49	<2.5	<0.42	< 0.60	<0.40	< 0.34	< 0.50	<0.40	5.67	880.5
	3/12/2018	<0.40	< 0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA	NA.	NA	NA	NA	5.22	880.95
	8/14/2018	<0.31	< 0.33	< 0.49	<0.98	< 0.67	<0.32	< 0.67	NA	NA	NA	NA.	NA	NA	6.75	879.42
	11/30/2018	<0.31	< 0.33	<0.49	<0.98	< 0.67	< 0.32	< 0.51	NA.	NA	NA	NA	NA	NA	4.49	881.68
MW-5	12/27/2013	8,650	2,980	35,900	15,600	2,933	<197	<1000	<168	<242	<150	<136	272.1	<159	6.47	2 L 1 L 12
MW-5R	3/12/2018	665	2,760	7,240	12,190	3,969	<48.5	865	NA.	NA NA	NA NA	NA	NA	NA	6.07	880.71
	8/14/2018	227	1,420	1,270	5,510	2,746	<12.8	618	NA	NA	NA	NA	NA	NA	7.51	879.27
	11/30/2018	215	1,760	2,240	6,940	2,944	<16.0	605	NA	NA	NA NA	NA	NA	NA	5.30	881.48
MW-10	2/4/2014	600	1,800	242	5,610	1,920	<11.5	430	. <19	<16.5	241	59	182	<15.5	7.44	876.72
	3/12/2018	208	1,010	95.5	3,760	1,190	12.9 J	354	NA	NA	NA	NA	NA	NA.	3.74	880.42
	8/14/2018	855	1,120	746	3,550	1,398	12.1	418	NA	NA	NA NA	NA	NA	NA	5.24	878.92
	11/30/2018	704	1,320	275	4,290	1,465	12.8 J	389	NA NA	NA	NA NA	NA	NA	NA	3.00	881.16
MW-11	2/4/2014	<0.24	<0.55	< 0.69	<1.32	<3.6	0.28 J	<1.7	<0.38	<0.33	<0.35	<0.3	< 0.25	< 0.31	9.28	875.65
	3/12/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA .	NA	NA NA	NA:	NA	NA	6.05	878.88
	8/14/2018	<0.31	<0.33	< 0.49	<0.98	< 0.67	<0.32	<0.51	NA	NA.	NA NA	NA.	NA	NA	7.25	877.68
	11/30/2018	<0.31	< 0.33	<0.49	<0.98	< 0.67	<0.32	<0.51	NA NA	NA	NA NA	NA	NA	NA	4.96	879.97
MW-20	3/12/2018	13.4	5.4	0.56 J	2.44 J	2.12	9.9	1.1	NA	NA.	NA	NA	NA	NA	3.65	878.63
	8/14/2018	<0.31	<0.33	<0.49	<0.98	<0.67	6.6	<0.51	NA	NA	NA	NA	NA	NA	4.95	877.33
	11/30/2018	<0.31	<0.33	<0.49	<0.98	< 0.67	5.9	<0.51	NA .	NA -	NA	NA	NA	NA	2.99	879.29
MW-21	3/12/2018	<0.40	0.46 J	0.66 J	1.8 J	1.37 J	<0.48	0.55 J	NA	NA	NA	NA	NA	NA	4.32	879.17
	8/14/2018	<0.31	<0.33	<0.49	<0.98	< 0.67	<0.32	<0.51	NA	NA -	NA	NA	NA	NA	5.64	877.85
	11/30/2018	<0.31	<0.33	<0.49	<0.98	< 0.67	<0.32	<0.51	NA	NA	NA	NA	NA.	NA	3.47	880.02
PZ-1	3/12/2018	<0.40	0.48 J	<0.39	<1.25	1.12 J	0.85 J	1.2	NA.	NA	NA .	NA	NA	NA	4.75	878.99
	8/14/2018	<0.31	<0.33	<0.49	<0.98	< 0.67	<0.32	<0.51	NA.	NA NA	NA	NA	NA	NA NA	5.86	877.88
	11/30/2018	<0.31	<0.33	<0.49	<0.98	<0.67	<0.32	<0.51	NA	NA.	NA NA	NA	NA	NA	3.47	880.27
SUMP	12/27/2013	<0.50	<0.50	< 0.44	<1.32	<1.0	< 0.49	<2.5	<0.42	<0.60	<0.40	<0.34	<0.50	< 0.40		17.4
	3/24/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA	NA.	NA NA	NA	NA	NA.	M = 2	-
POTABLE	12/27/2013	<0.24	<0.21	<0.22	<0.39	<0.50	<0.25	<0.50	<0.23	<0.25	<0.24	<0.12	<0.25	<0.25	1 201	
SOUTH CONTROL	3/24/2018	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	<0.42	NA .	NA	NA.	NA	NA	NA.	-	-
R 140 enforcen		5	700	800	2,000	480	60	100	70	NS	NS NS	NS	NS	NS	-	1.1-
	ve action limit	0.5	140	160	400	96	12	100	7	NS NS	NS NS	NS	NS	NS		1

(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

All concentrations reported are in parts per billion (ug/L)

Bold value represents exceedance of NR 140 enforcement standard

Italic value represents exceedance of NR 140 preventive action limit

TMB: trimethylbenzene

NS: no standard NA: not analyzed/ not applicable msl: mean sea level MTBE: methyl tert-butyl ether

below ground surface

Table A.2 (continued) **Groundwater Analytical Results** Da Swamp Bar Pulaski, Wisconsin

Polycyclic Aromatic Hydrocarbons

Sample ID	Sample Date	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a) pyrene	Benzo(b) fluoranthene	Benzo (g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenz (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methyl- naphthalene	2-Methyl- naphthalene	Naphthalene	Phenanthrene	Pyrene
GP-3	12/12/2013	0.028 J	<0.02	<0.02	<0.025	<0.018	<0.02	<0.023	<0.027	<0.018	<0.023	<0.026	0.036 J	<0.027	0.45	0.52	2.58	0.114	<0.025
GP-5	12/12/2013	<10.5	<10	<10	<12.5	<9	<10	<11.5	<13.5	<9	<11.5	<13	<10	<13.5	940	1,680	1,990	<9	<12.5
MW-1	12/27/2013	<0.0064	<0.0053	<0.0062	<0.0065	<0.011	<0.0083	<0.0090	<0.012	<0.0080	<0.0074	0.0098 J	<0.0072	<0.0095	<0.0070	0.0074 J	0.0082 J	0.014 J	0.011 J
MW-2	12/27/2013	<3.2	<2.6	<3.1	<3.2	<5.3	<4.2	<4.5	<5.8	<4.0	<3.7	<2.9	<3.6	<4.8	35.5	72.8	241	<2.8	<3.0
MW-3	12/27/2013	<0.0064	<0.0053	<0.0062	0.0068 J	<0.011	0.0091 J	<0.0090	<0.012	<0.0080	<0.0074	<0.0058	<0.0072	<0.0095	<0.0070	<0.0068	0.0095 J	0.011 J	0.0065 J
MW-4	12/27/2013	<0.0064	<0.0053	<0.0062	<0.0065	<0.011	<0.0083	<0.0090	<0.012	<0.0080	<0.0074	0.0068 J	<0.0072	<0.0095	<0.0070	<0.0068	0.0056 J	0.011 J	0.0075 J
MW-5	12/27/2013	<25.6	<21.2	<24.8	<26.0	<42.4	<33.2	<36.0	<46.0	<32.0	<29.6	<23.2	<28.8	<38.0	686	1,510	2,290	<22.0	<23.6
MW-10	2/4/2014	<1.8	<2	<1.8	<2.3	<2	<1.9	<2.4	<2.7	<1.8	<2.8	<2.2	<2.2	<2.7	12.6	18.3	179	<1.8	<2.2
MW-11	2/4/2014	<0.018	<0.02	<0.018	0.042 J	<0.02	0.025 J	<0.024	<0.027	0.02 J	<0.028	<0.022	<0.022	<0.027	0.023 J	<0.024	0.194	<0.018	0.025 J
POTABLE	12/27/2013	<0.0064	<0.0053	<0.0062	<0.0065	<0.011	<0.0083	<0.0090	<0.012	<0.0080	<0.0074	0.0068 J	<0.0072	<0.0095	0.097	0.23	0.33	0.013 J	0.0076 J
NR 140 enforc	ement standard	NS	NS	3,000	NS	0.2	0.2	NS	NS	0.2	NS	400	400	NS	NS	NS	100	NS	250
NR 140 prever	ntive action limit	NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	NS	NS	10	NS	50

(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

Bold value represents exceedance of NR 140 enforcement standard All concentrations reported are in parts per billion (ug/L)

NS:

no standard



On December 27, 2013, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-5, site potable and basement sump. An indoor air sample was also collected from the basement of the bar via Summa cannister. Depth to groundwater measurements were collected and each monitoring well was purged via bailer prior to sampling. Groundwater samples from the entire monitoring well network were appropriately preserved and submitted to Pace Analytical, Inc., (Pace) in Green Bay, Wisconsin, for VOC and PAH analysis. The air sample was appropriately preserved and submitted to Synergy for laboratory analysis for TO-15 VOC analysis.

On January 31, 2014, Endeavor personnel oversaw the installation of two additional WAC, NR 141 groundwater monitoring wells (MW-10 and MW-11) at the subject site by Geiss. Groundwater monitoring wells MW-10 and MW-11 were installed to a depth of 12.5 feet below ground surface with ten feet of well screen per WAC, NR 141 requirements.

On February 4 2014, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-10 and MW-11. Depth to groundwater was measured and each well was purged via bailer. Groundwater samples were appropriately preserved and submitted to Synergy for VOC and PAH analysis.

On November 13, 2014, Endeavor personnel were on-site to collect an indoor air sample from the bar basement. The sample was collected near the sump via Summa cannister and submitted to ALS Environmental of Holland, MI, for TO-15 VOC analysis.

On May 16-17, 2016, Endeavor supervised the excavation of petroleum impacted soils by BEST Enterprises, LLC of De Pere, Wisconsin. A total of 537.83 tons of soil excavated and transported to Advanced Disposal Hickory Meadows Landfill, LLC in Hilbert, Wisconsin, for disposal. Monitoring well MW-5 was properly abandoned during excavation activities. A total of nine confirmation soil samples were collected from the limits of excavation activities, preserved and submitted to Pace for PVOC plus naphthalene analysis. Excavation activities and associated findings were summarized in the Excavation Summary dated December 31, 2018, which was previously submitted to the WDNR.

On February 21, 2018, Endeavor personnel oversaw the installation of four additional WAC, NR 141 groundwater monitoring wells (MW-5R, MW-20, MW-21) and a piezometer (PZ-1) at the subject site by Sam's Well Drilling, LLC. Groundwater monitoring wells MW-5R, MW-20 and MW-21 were installed to a depth of thirteen feet bgs with ten feet of well screen per WAC, NR 141 requirements. Groundwater piezometer well PZ-1 was installed to a depth of thirty-three feet bgs with five feet of well screen per WAC, NR 141 requirements. WDNR forms associated with site investigation activities can be found in Appendix B.

On March 12, 2018, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-4, MW-5R, MW-10, MW-11, MW-20, MW-21, and PZ-1. Depth to groundwater measurements were collected and each monitoring well was purged by



bailer prior to sampling. Groundwater samples collected were appropriately preserved and submitted to Pace for PVOC plus naphthalene analysis.

On March 24, 2018, Endeavor personnel were on-site to collect water samples from the basement sump and site potable well. Endeavor also collected an air sample from the basement below the bar. The water and air samples were submitted to Pace for PVOC plus naphthalene and TO-15 VOC analysis, respectively.

Soil, groundwater and indoor air sample laboratory analytical reports are provided in Appendix C, D and E, respectively.

3.2 Soil Contaminant Investigation

Site investigation soil sample laboratory analytical results have shown benzene, ethylbenzene, toluene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene at levels exceeding their respective Calculated RCLs (groundwater protection). The observed soil contaminant plume is located on the source property, as well as, extends into the Hofa Park Drive right-of-way. All remaining analyzed constituents were reported at levels below their respective laboratory reporting limits or applicable regulatory standards. Table A.1 provides a complete summary of the soil sample laboratory analytical results. Figure 7 illustrates the lateral extent of petroleum soil contamination exceeding calculated RCLs. Figures 8 illustrate the vertical extent of petroleum soil contamination exceeding the calculated RCLs.

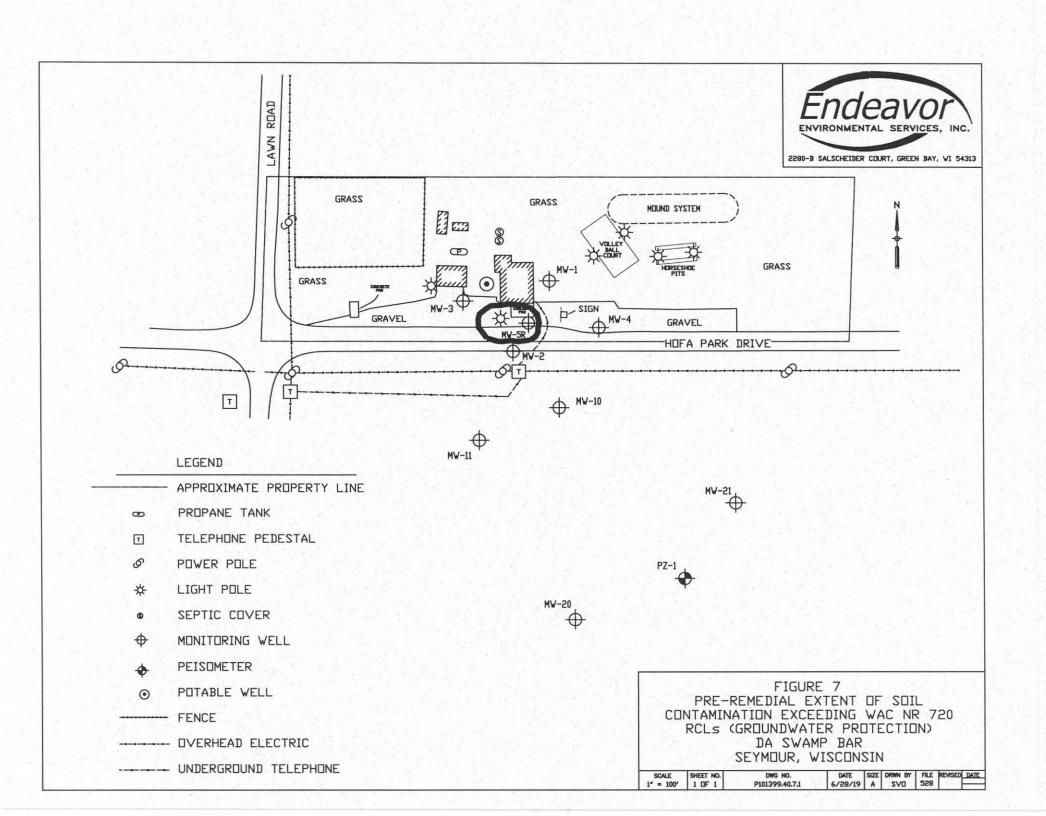
As these figures illustrate, the extent of petroleum soil contamination present at the site has been adequately defined. The soil contaminant plume extends east from the former USTs to the former dispenser location.

3.3 Groundwater Contaminant Investigation

Site investigation groundwater sample laboratory analytical results have reported benzene, ethylbenzene, total xylenes, 1,2,4-TMB, 1,3,5-TMB, and naphthalene at levels exceeding WAC, NR 140 ESs or PALs. Monitoring points reporting contaminant concentrations exceeding WAC, NR140 ESs or PALs included monitoring well MW-2, MW-5/5R, MW-10, and MW-20. Table A.2 provides a complete summary of the groundwater sample laboratory analytical results. Figure 9 illustrates the extent of groundwater contamination exceeding WAC, NR 140 ESs.

3.4 Free Product Assessment

Free product was not encountered during any of the investigative activities performed at the subject site.

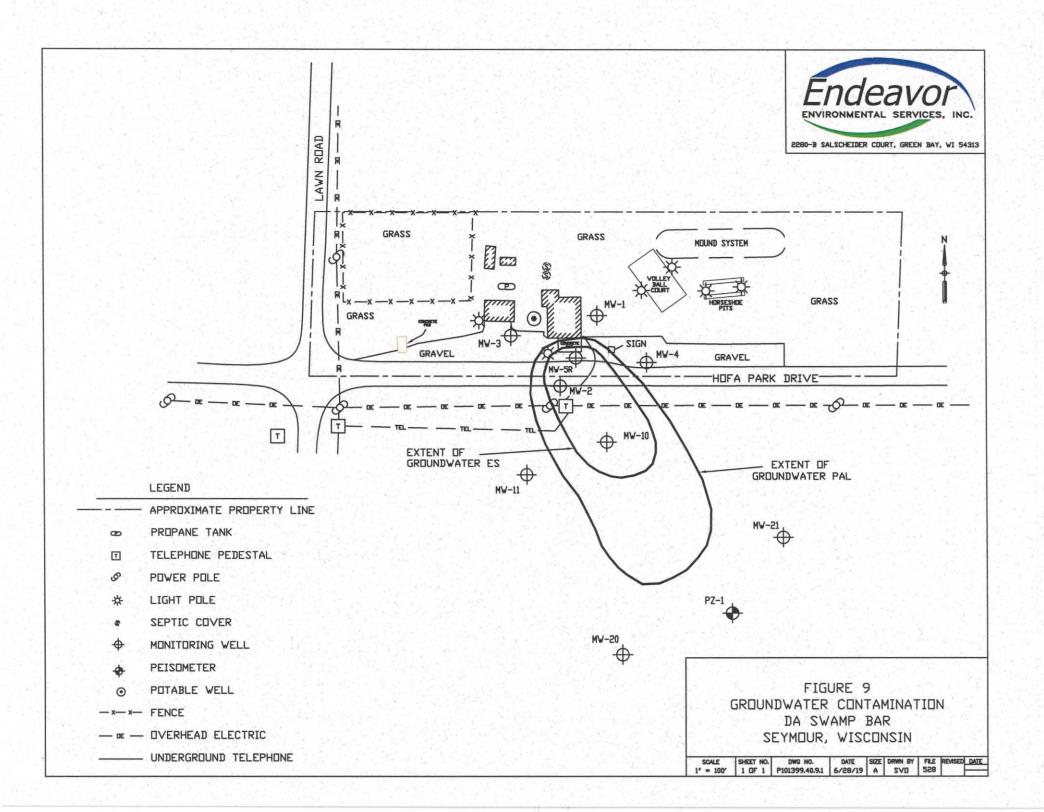




P101399.40.8.1

2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313 MW-21 MW-3 MW-2 MW-10 PZ-1 GROUNDWATER OF TABLE 3/12/18 16 SCALE VERTICAL 1' = 8' HORIZONTAL 1' = 50' 24 -LEGEND LOAMY CLAY WEATHERED BEDROCK SANDY LOAM 32 _ MEDIUM-COARSE SAND **ASPHALT** GRASS TOP SOIL 40 -GRAVEL EARTH DRILL FIGURE 8 PRE-REMEDIAL EXTENT OF SOIL SOIL CONTAMINATION CONTAMINATION EXCEEDING WAC NR1720 SOIL SAMPLE RCL'S (GROUNDWATER PROTECTION) LOCATION DA SWAMP BAR SECTION DETAIL SEYMOUR, WISCONSIN DATE SIZE DRWN BY FILE REVISED DATE
6/28/19 A SVD 528 SHEET NO. DWG NO. SCALE

CHARLES FEET _ II I





3.5 Contaminant Migration

The observed depth to groundwater measurements range between 2.99 ft bgs (monitoring well MW-20) to 9.28 feet bgs (monitoring well MW-11). Soil sample laboratory analytical results have confirmed the presence of soil contamination within the unsaturated zone. Utility investigation/assessment activities do not place any underground public utility corridors within the area of dissolved petroleum contamination. Therefore, site lateral corridors are not acting as preferential pathways for contaminant migration.

3.6 Vapor Intrusion Assessment

Endeavor evaluated the risk of vapor intrusion into the on-site building using the vapor intrusion assessment screening criteria provided in the WDNR's "Addressing Vapor Intrusion at Remediation and Redevelopment Sites in Wisconsin (RR-800)" guidance document. The guidance document provides several screening criteria that if met, can be used to make the determination that the risk of vapor intrusion at the site is minimal and no additional vapor intrusion assessment is necessary. These criteria are only applicable at sites where no petroleum odors have been detected inside of the building, which confirms the vapor intrusion pathway has been completed.

Endeavor completed indoor air sampling within the bar structure basement on three events (12/27/2013, 11/13/2014 & 03/24/2018). Summa cannister samples were collected near the groundwater sump. Concurrently, groundwater sump sampling was also performed on the first and last referenced indoor air sampling events. Air sample analytical results reported no detections of analyzed constituents above their Vapor Action Levels. Air sample laboratory analytical results can be found in Table A.3. Air Sample laboratory analytical reports can be found in Appendix Also, sump groundwater samples reported no detections of analyzed constituents above their respective laboratory reporting limits.

Based upon a review of the screening criteria, results of the above referenced sampling activities and completion of contaminant mass removal activities, there is minimal risk of significant vapor intrusion into the site building located at the subject property.

4.0 CONCLUSIONS

Site investigation activities outlined above have adequately defined the site soil and groundwater contaminant plumes associated with the site petroleum release. The site petroleum contamination is located east of the former UST basin and extended to the former dispenser location. Source excavation activities have removed the majority of the petroleum soil contamination associated with the subject release. Assessment activities have not identified a concern for vapor intrusion to site buildings or contaminant migration along any known utility corridors. The dissolved contaminant plume will be closely monitored for plume expansion under a natural attenuation monitoring program to address the dissolved contaminant plume.

Table A.3
Air Sample Laboratory Analytical Results
Da Swamp Bar
Pulaski, Wisconsin

Sample Date	Benzene	Ethyl- benzene	Toluene	Total Xylenes	Total TMBs	мтве	Naphthalene	Dichloro- difluoro- methane	Acetone	Methylene Chloride	Ethanol	2- Propanol	n-Hexane	Heptane	Chloro- methane	Tetra- hydrofuran	2,4,4- Trimethyl- pentane	Vinyl Acetate	Ethyl Acetate	2-Butanone
Basement	Turner I					1	75-7-1			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	47.0			8 - 1 40		A STATE OF THE STA	LIVE TO L	11.55	5 - 3	
12/27/2013	1.6	<0.87	7.5	7.77	2.68	<0.72	<3.3	11.	12	3.8	940	4.9	1.1	0.98	0.58	0.8	0.93	<0.70	NA	<3.7
11/13/2014	<1.6	<2.2	19	3.1	<5.0	<1.8	<2.6	13	<2.4	8.6	NA	3.9	3.6	<2.0	1.6	<1.5	NA	3.3	6.9	4.4
3/24/2018	0.44 J	<0.25	2.2	1.37 J	1.26 J	<0.96	<0.86	2.5	12.3	<2.2	1960	3.9	<0.48	<0.30	1.2	<0.39	NA	2.5	6.2	3.61
Carcinogenic TR	3.6	1.1	NS	NS	NS	11	0.83	NS	NS	100	NS	NS	NS	NS	· NS	NS	NS	NS	NS	NS
Noncancer HI	31	1,000	5,200	100	63	3,100	3.1	100	32,000	630	NS	NS	730	420	94	2,100	NS	210	73	5,200

Notes:

All concentrations reported are in parts per billion (ug/m³)

Vapor Action Levels are based on the EPA Regional Screening Levels updated November 2017

(J) Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit

TMB: trimethylbenzene NS: not analyzed/not applicable

MTBE: methyl tert-butyl ether NA: not applicable TR: Target Risk HI: Hazard Index



5.0 CONDITIONS

The opinions rendered in this correspondence are based upon the information collected during the above outlined activities and represents Endeavor's professional judgment regarding the status of the above-referenced site and, as such, are not a guarantee.

Endeavor's professional judgment is based upon generally accepted environmental practices and procedures designed to assess environmental liability with respect to current and customary standards of due care in the consulting industry at this time.

The services provided by Endeavor personnel during this project have been conducted in a manner consistent with the degree, care, and technical skill exercised by environmental consulting professionals currently practiced in this area under similar budget and time constraints. Beyond this, no warranty is implied or expressed. This letter does not constitute legal advice, nor does Endeavor purport to provide legal advice.

If you have any questions regarding this submittal, please feel free to contact me at (920) 437-2997 at your convenience.

Sincerely,

Joseph M. Ramcheck, P.H.

Senior Hydrologist

I, Joseph M. Ramcheck, hereby certify that I am a hydrogeologist as that term is defined in s. NR712.03(1), Wis. Adm. Code, am registered in accordance with requirements of ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of ch. GHSS 3, Wis. Adm. Code, and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR700 to 726, Wis. Adm. Code.

cc: Ms. Linda Van Gheem, Responsible Party

File



APPENDIX A

Property Deed

State Bar of Wisconsin Form 1-2003 WARRANTY DEED



	vame	
THIS DEED, made between LUCILLE E. VAN LANNEN,	a single person	
("Grantor," whether one or more), and DA SWAMP, LLC, a liability company	Wisconsin limited	
("Grantee," whether one or more).		
Grantor for a valuable consideration, conveys to Grantee the folestate, together with the rents, profits, fixtures and other app		Recording Area
SHAWANO County, State of Wisconsin ("Prop needed, please attach addendum):		Name and Return Address Attorney Jodi L. Arndt Liebmann Conway Law Firm P.O. Box 23200 Green Bay, WI 54305
The South 179 feet of the West 633.2 feet of the Southwest Q Southwest Quarter (SW 1/4 of the SW 1/4), in Section Eighte Twenty-five (25) North, Range Eighteen (18) East, in the Tov Shawano County, Wisconsin. Less and except that part sold purposes in Vol. 467 Records, Page 230, as Doc. No. 322549.	en (18), Township n of Maple Grove,	O30-18330-0010 Parcel Identification Number (PIN) This is not homestead property. (结的 (is not)
Grantor warrants that the title to the Property is good, indefeasible	le, in fee simple and free	and clear of encumbrances except:
Grantor warrants that the title to the Property is good, indefeasible. Dated October 2, 2006	le, in fee simple and free	e and clear of encumbrances except:
		e and clear of encumbrances except:
Dated October 2, 2006		(SEAL)
Dated October 2, 2006 . (SEAL	.) *Lucille E. Van Lar	(SEAL)
Dated October 2, 2006 . (SEAI	*Lucille E. Van Lai	(SEAL) INEN (SEAL) KNOWLEDGMENT
Dated October 2, 2006 (SEAL * AUTHENTICATION	*Lucille E. Van Lar * Lucille E. Van Lar	(SEAL) INEN (SEAL) KNOWLEDGMENT
Dated October 2, 2006 (SEAL (SEAL AUTHENTICATION Signature(s) authenticated on	*Lucille E. Van Lar *Lucille E. Van Lar AC STATE OF WISCON BROWN Personally came before	(SEAL) (SEAL) (KNOWLEDGMENT VSIN)) ss.
Dated October 2, 2006 (SEAL (SEAL AUTHENTICATION Signature(s) uuthenticated on	*Lucille E. Van Lar *Lucille E. Van Lar AC STATE OF WISCOM BROWN Personally came befor the above-named LUC	(SEAL) KNOWLEDGMENT VSIN) ss. COUNTY) The me on October 2, 2006 CILLE E. VAN LANNEN the person(s) who executed the foregoing
Dated October 2, 2006 (SEAL * AUTHENTICATION Signature(s) uthenticated on TITLE: MEMBER STATE BAR OF WISCONSIN (If not,	*Lucille E. Van Lar *Lucille E. Van Lar AC STATE OF WISCON BROWN Personally came before the above-named LUC to me known to be	(SEAL) KNOWLEDGMENT VSIN SS. COUNTY Te me on October 2, 2006 CILLE E. VAN LANNEN the person(s) who executed the foregoing wledged the same.

(Signatures may be authenticated or acknowledged. Both are not necessary.)

NOTE: THIS IS A STANDARD FORM. ANY MODIFICATION TO THIS FORM SHOULD BE CLEARLY IDENTIFIED. WARRANTY DEED ©2003 STATE BAR OF WISCONSIN

FORM NO. 1-2003



APPENDIX B

WDNR Forms

State of Wis	sconsin	
Department	of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater Wastewater Remediation/Revelopment Company			t 🗆								
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First Name: Tony Last Name: Kapugi		$\frac{12}{d}$	_		ı	$\frac{12}{d}$	_		1	robe	
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S-4 20 6.0 - 8.0 Moist, reddish brown sandy	loam \	ML-			 						Lab Sample
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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

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State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

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promise and the second		7 .3 . 7 CC. w	ction Da	ite (mm	/dd/yyyy)	Screen r	Screen removed?									
Monitoring Well .			2/12/2	•	***,	Casing left in place? Yes No [X] N/A										
Water Well	lí a We	II Constru	uction Re	eport is	available,	Was casing cut off below surface?										
X Borehole / Drillhole	please			•		Did sealing material rise to surface? [X]Yes \(\text{No} \) No \(\text{N/A} \)										
Construction Type:						Did material settle after 24 hours?										
Drilled Drf	ven (Sandpoli	nt)		ug		1	If yes, was hole retopped?									
X Other (specify): Geor	robe						If bentonite chips were used, were they hydrated									
Formation Type:				· · · · · · · · · · · · · · · · · · ·						IYes LINo	F-71 (V/A					
	•	F-1_	1 6			پنسس ا	Required Method of Placing Sealing Material Conductor Pipe-Gravity Conductor Pipe-Pumped									
[X] Unconsolidated Format		territories (irock	A . 1			Contactor ripe-Gravity Screened & Poured [X] Other (Explain): Gravity									
Total Well Depth From Groui	-	.) Casing	g Diame	eter (in.)	ŧ	(watering analys)										
Lower Drillhole Diameter (in.)	10	Carin	g Depth	764 N		·	Sealing Materials									
LOWER DIBINOIS DISTRICTS (III.	2	Casing	g Depui	(11.)		Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.) Sand-Cement (Concrete) Grout Bentonite-Sand Slurry * "										
	r	L	г _{ч-} 1						X Bentonite							
Was well annular space grou	ted?	Yes	$[x]_N$	lo L	Unknown	1		Monitoring Well B	* III	•						
f yes, to what depth (feet)?	De	pth to Wa	ater (fee	i)		\$ 3mmile	nite Chips	_ 	ntonite - Cem							
							Granular Bentonite Bentonite - Sand Slurry									
5. Material Used To Fill We	II / Drillhole					From (ft.)	To (ft.)	Cubic F	erran erreina erran erran erran erran erran erran erran erran erran erran erran erran erran erran erran erran e	Mix Rat	io					
Gravel						Surface	0.5	0.01		100%						
3/8" chipped bentonite	ť			0.5	10	0.2		100%								
3. Comments									signitalia.		Huselle					
7. Supervision of Work		22 22 22 22 22 22 22 22 22 22 22 22 22		N. 11					DNR Use	Only	lui-film					
Name of Person or Firm Doin		cense #		illing & Sealing (mm/dd/yyyy) Date Received Noted By												
Endeavor Environmental Se	ervices, Inc.		***************************************		<u> </u>	12/12/2013 elephone Number Comments										
Street or Route						elephone Nun										
water Management and the second and	scheider Cou	rt State			(920) 437-2			am chiere							
Green Bay			Code 54313-	Signature of Person Daing Work Date Signed												

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

			Ro	ute To:			astewater L Revelopmer				: L											
													·				1	of				
	ity/Proj Swam		ame				License/Permit/Monitoring Number Boring Number GP-3															
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Tony Last Name: Kapugi										Date Drilling Started Date Drilling Completed Drilling Method												
		•	vironn						$\frac{12}{m}$	$\frac{12}{m m} / \frac{12}{d d} / \frac{2013}{y y} = \frac{12}{m m} / \frac{12}{d d} / \frac{2013}{y y} = \frac{12}{y}$ geoprobe												
WI Unique Well No. DNR Well ID No. Well Name										Static	Water	Level		ce Elev	ation		Borehole Diameter					
Local Grid Origin (estimated: IX) or Boring Location X											_Feet I		Local	Grid I	_Feet		inches inches					
State	Plane_		_		N,		i	Lat N								□E						
Facili	_ 1/4 of ity ID	SW	_ 1/4 o	f Secti	On 18 Count	, <u></u>	l Lo County (Town/	 City/ c	F or Villa	eet 🗆	<u> </u>	Feet W							
SHAWANO59 Maple Grove																						
_ San	nple ⊗ ਜ਼ਿ		(age)								Graphic Log					Proper	rties					
. .	1 4 0	ounts	Fee und su		A		Description gic Origin F			,,		_		sive	υ.		y		nts			
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	1		Each M	lajor Unit			scs		Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments			
N. Strong	Re Le	Blo	∆ §							D		≱ ä	ы	Stra	క్టర్	iğ.ij	Pla Ind	P2	% 2			
S-1 S-1	10		E	$\frac{0.0}{0.5}$	- 0.5 - 2.0	Gravel Moist, re	eddish brow	n sandy l	oam	GW ML			 15.3									
S-2	12		= 2	$\sqrt{2.0}$	- 4.0		eddish brow			ML-			131						Lab Sample			
			E				- 1,			"""												
S-3	16		E ⁴	1 4.0	- 6.0	Moist, re	eddish brow	n sandy l	oam \	ML-			31						Lab Sample			
S-4	16		8	√ 6.0	- 8.0	Moist, re	eddish brow	n sandy l	oam \	ML-			17.3						Lab Sample			
S-5	18		E ₈	√8.0	- 10.0	Saturate sand	d, medium-	coarse silt	ty	SP			10.9									
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Mall								Endeavor Environmental Services, Inc.														

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsia Department of Natural Resources Route to: N	Vatershed/Wastewater	Waste Man	agement	MONITORING WELL Form 4400-113A	L CONSTRU Rev. 7-98	CTION
	Remediation/Redevelopmen				K0Y, 7-90	· · · · · · · · · · · · · · · · · · ·
Facility/Project Name Da Swamp	Local Grid Location of Wo	ell N. :t. S	ft. 🗆 E.	Well Name GP-3		
Facility License, Permit or Monitoring No.	Local Grid Origin (es	stimated: X) or	Well Location [X	Wis, Unique Well No. NA		
Facility ID	St. Plane	ft. N,		Date Well Installe 12_/	_12_/_2013	3
Type of Well	Section Location of Waste	•	ı, XE	Well Installed By: Nan	_0 0 7 7	YY
Well Code 11 mw	SW_1/4 of SW 1/4 of S			Tony Kap		III I III.
Distance from Waste/ Enf. Stds. Source ft. Apply	Location of Well Relative u	☐ Sidegradient	Gov. Lot Number	On-site Environment		nc.
			I. Cap and lock?		☐ Yes X	No
A. Protective pipe, top elevation			2. Protective cover p	ine:	L res A	. 110
B. Well casing, top elevation	ft. MSL		a. Inside diameter			in.
C. Land surface elevation	ft. MSL		b. Length:	•		ft.
	******	3.55.23.63	c. Material:		Steel 🗆	0 4
D. Surface seal, bottom ft. MS	Lor ft.	. I V			Other 🗆	
12. USCS classification of soil near screen	: 34	A Access	d. Additional prot		☐ Yes ☐	No
	W 🗆 SP 🔲 🔪	11 13/ /	If yes, describe	· · · · · · · · · · · · · · · · · · ·		
	L CH D	$H \bowtie \setminus \setminus$, Surface scal:		Bentonite 🗆	30
Bedrock □			, Surface seaf:		Concrete	01
	es IX No	**			Other 🗆	
14. Drilling method used: Rota	rry □ 50	፟	. Material between	well casing and protectiv	e pipe:	nnnr
Hollow Stem Au		₩ ₩			Bentonite 🗆	
Geoprobe Oti	ner IX 🎆				Other 🗆	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
15. Drilling fluid used: Water □ 0 2	Air 🗆 01		. Annular space sea			
	one X 99			ud weight Bentonite-		
2g 1720 [] 0.3 [4]	Me ize		Lbs/gal m	ud weight Bento	nite slurry	3 1
16. Drilling additives used?	es IX No			e Bentonite-ce		50
_				volume added for any of		
Describe		g 👹 f	How installed:	Team	Tremie	
17. Source of water (attach analysis, if require	red):			Henn	ie pumped Cresitus	~
			Bentonite seal:	a Bentonit	Gravity □ te granules □	08 33
		∄ ₩ "		/8 in. □1/2 in. Bent		
E. Bentonite seal, topft, MSL	or ft.		C	O III. — I/2 III. — DOIL	Other	32
F. Fine sand, top ft. MSL	orft.	,7.	Fine sand material	Manufacturer, product	name & mesh	h size
G. Filter pack, top ft. MSL	or ft.		b. Volume added	ft ³		
or rate poor of		11 17778		l: Manufacturer, produc		h cize
H. Screen joint, top ft. MSL	or _ 5 ft.		a. Open borehole			
	10	[####(C+P)	b. Volume added_	ft3		
I. Well bottom ft. MSL	or _10ft.	9.	`**	Flush threaded PVC scho	=	23
A 150Y				Flush threaded PVC sch	edule 80 🗆	24
J. Filter pack, bottomft. MSL	or II.		Samuel and the D		Other	### ****
K. Borehole, bottom ft. MSL	or 10 ft.		Screen material: P		actomic mit IV	
R. Hoteliole, Katolii in Made			a. Screen type:	Contin	actory cut [X]	11
L. Borehole, diameter2 in,	\E			Contini		
III.		\ ,	Manufacturer _		Other \square	
M. O.D. well casing 1.25_ in.		``	s. Slot size:		— 0.07	1 in.
III.		`	. Slotted length:		.5	
N. I.D. well casing _ 1 in.		1 "	Backfill material (b	elow filter pack):	None IX	1 4
I hereby certify that the information on this fo	rm is true and correct to the	best of my knowl	edge.		Outer El	25,575
Signature // Signature	Firm	- Jacob My Know				
MXXX		vor Environmental	Services, Inc.			

State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

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

Route to:

Verification Only	of Fill and	Seal		_	o. nking Water iste Manage	ment	. E	Watershed/\ Other:	Nastewat	er [Remed	iation	Redeve	elopment
1. Well Location Inform	nation					b	Facilit	y / Owner I	nformat	on 💯				460 C S 18 C C C
County	WI Unique V		j-	icap#	and the second	F	acility Nar		10000	VT-17" y 1 brostot Step 1	on unification of the	:09&101gF1	CLAUSONS CO.	- Allen Hamiltonian
SHAWANO	Removed W	elf	1				•	Da Sw	amp					
Lattitude / Longitude (Degr	age and Min	utoo) bu	othod	Codo lo	aa laata salie	- F	acility ID (FID or PWS)	1	The second secon	agrum dagamining far	MOTATIVIMOS		7,000 mm (common from
e cannoo r congnuo (Degr	ces trift Milli	, N	outou .	coue (s	ee manucht	Ĺ								
•		- '\					icense/Pe	rmit/Monitorir	1g# (_	, P-3				
1/4 SW 1/4 SW	/ Sec	tion	Town	ship	Range [x]		riginal We	II Owner					***************************************	·····
or Gov't Lot #		18	25	- 1	40 [4]	147 L								
Well Street Address				141		~~P	resent We							
W2490 Hofa Park Drive						L			Da Swam		<u> </u>		·····	
Well City, Village or Town	***************************************		Kimmur nesm	Well Z	IP Code	M	lailing Add	ress of Prese			2349 - D			
Maple Grove				541	65-	F	th		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	W2746 Half	سيسبب والمستوات			
Subdivision Name				Lot#			ny or Fres	ent Owner			State	ZIP (
						21	Private 26.0008		mour	éta kadas	WI	1	4165-	สารีนกรณ์เว็บ
Reason For Removal From	Service W	l Unique	Well #	of Repl	acement We		. Knub.	Liner, Scre	en, Cas	ng & Sear	ing mate	riai		
Temporary boring					-		Pump an	d piping rem	oved?			Yes	∐ No	$[x]_{N/A}$
3. Well / Drillhole / Bore	hole Infon	nation				\$65.4 \$15.5	Liner(s) r	emoved?				Yes	ЦNo	$[x]_{N/A}$
Monitoring Well .	Origin	al Const			nm/dd/yyyy		Screen re	moved?					No	
			12/13	2/2013			Casing le	ft in place?			<u> </u>	Yes	X No	
Water Well				n Repor	t is available	,	Was casi	ng cut off be	low surfa	ce?		Yes	LNo	$[X]_{N/A}$
X Borehole / Drillhole	pieas	e attach.		/#####################################	ON COMPANY OF THE PERSON OF TH		Did seali	ng material ri	se to surf	ace?	[X]	Yes	L_INo	∐N/A
Construction Type:			_	٦				rial settle afte		rs?		Yes	[x] _{No}	IN/A
- 14 M	riven (Sandpo	oint)	L	Dug			If yes	, was hole re	topped?	a the action of	الل المدا	Yes	∐No	$[X]_{N/A}$
X Other (specify): Geo	probe		***********	***************************************		_	with water	te chips were r from a know	usec, we In safe so	urce?	ated D	Yes		$[x]_{N/A}$
Formation Type:						Re	equired Me	thod of Placi	ng Sealin	g Material				ini na mangangan katara k
[X] Unconsolidated Forma	ition		edrock	K.				ctor Pipe-Gra						
Total Well Depth From Grou	ınd Surface (ft.) Cas	ing Dia	ameter ((ln.)	- L		ned & Poured nite Chips)	[X]	Other (Expla	in): <u>Gra</u>	vity		
	10					Se	aling Mate	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	mus anaranadaran			•••••	'	
Lower Drillhole Diameter (in	.) 2	Cas	ing De	pth (ft.)		T][Neat C	ement Grout			Clay-Sand	l Slun	y (11 lb	./gal. wt.)
	<u> </u>	L	····			إ	raides	Cement (Cond	crete) Gro	ut []	Bentonite-	Sand	Slurry *	i #I
Was well annular space gro	uted?	Yes	<u>. [</u> 2	No	Unknov	۸ I ۱	Concre				Bentonite			
f yes, to what depth (feet)?		epth to \				-Fo	₩₩ ₩	ng Wells and	Monitorin	· · · · · · · · · · · · · · · · · · ·				
is your to terms ampere (lowly)	Γ	opinio i		(1001)		1 }		ite Chips			ile - Ceme			
A THE STATE OF THE	Hills ideal be vitted	Hasan Alba	triacción d	ik tádáláku	322240-20-20-1-1-4C	Britania Britania	S. Z. Section R. Commerce	ar Bentonite	leaf		ite - Sand	read and		
5. Material Used To Fill W	ell / Drillhol					A 20 1 1 1 1 1 1	rom (ft.)	To (ft.)	C	ubic Feet		Miz	Rati	0
Gravel		***************************************					Surface	0.5	<u> </u>	0.01		1009	6	
3/8" chipped bentonite					·	0).5	10		0.2	na manana manana manana manana manana manana manana manana manana manana manana manana manana manana manana ma	1009	6	
	Hammon Market Hamman	iniusoniminimi	unniiradiia	والمساوية المساوية			Late Management				a war na ea a	28. V tues	Son high 1982	Marine de la companya
3. Comments						didisist.		Property of the second	Triving 1		Adaya.			
. Supervision of Work	i garligaj il iligakti	ggárafi.	i ni da.	nigara.	et (2004-64)	14.5	andarana.	aurejouw	SW 64843	KSBVALLE	NR Use	Chales		
lame of Person or Firm Doir	na Fillina & S	ealing	Licens	e#	Date of	Fillinn	& Sealing	ı (mm/dd/yyy	v) Data i	Received		d By	n oggjejna n oggjejna	i ngat mengapi Daga pagahan
Endeavor Environmental S			1				2/12/201		"[][]					
Bireet or Route	(ham)		L				hone Num		Comin	ients:				
2280-B Sa	lscheider Co	urt				,	0)437-2							
City		Sta	ite	ZIP Co				Person Doing	1 140 FK	· · · · · · · · · · · · · · · · · · ·		Sign		
Green Bay		1 1	ΝI	5431	3-		//1	1/6				エ //	[3][7

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other Page Facility/Project Name License/Permit/Monitoring Number Boring Number GP-4 Da Swamp Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method Last Name: Kapugi First Name: Tony $\frac{12}{m} / \frac{12}{d} / \frac{2013}{y} \frac{y}{y} \frac{y}{y}$ $\frac{12}{m}/\frac{12}{d}/\frac{2013}{y}\frac{3}{y}\frac{3}{y}$ geoprobe Firm: On-site Environmental Services, Inc. Well Name Final Static Water Level Surface Elevation Borehole Diameter WI Unique Well No. DNR Well ID No. GP-4 Feet MSL Feet MSL inches n Local Grid Location Local Grid Origin (estimated: Ix) or Boring Location 0 Lat State Plane \Box E 0 SW 1/4 of SW 1/4 of Section 18 25 _N, R_18 Long Feet S Feet□ W T County Code Civil Town/City/ or Village County 59 **SHAWANO** Maple Grove Soil Properties Sample Depth in Feet (Below ground surface) ঞ Recovered (in) Blow Counts Soil/Rock Description Length Att. RQD/ Comments And Geologic Origin For Plasticity Index PID/FID Moisture Content Well Diagram Each Major Unit Graphic P 200 GW S-1 - 0.5 Gravel Moist, reddish brown sandy loam 37.4 - 2.0 12 0.5 S-1 297 Moist, reddish brown sandy loam Lab Sample S-2 16 2.0 - 4.0 MI Lab Sample >1,00 4.0 Moist, reddish brown sandy loam S-3 16 - 6.0 ML 6.0 Moist, reddish brown sandy loam >1,00 Lab Sample - 8.0 S-4 18 MI 249 S-5 10 $\sqrt{8.0}$ - 10.0 Saturated, fine-medium silty sand SM I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Firm Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Green Bay

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Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Page 1 of 2

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State	of	Wisco	nsin	
Depa	rtm	ent of	Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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																	Page	<u> 1</u>	of _	
	ity/Pro		ame						Licer	ise/Pei	rmit/	Mo	nitori	ng Nur	nber	Borin	g Nun			 -
	Swam		: Nam	e of c	rew chie	ef (first,	last) and Firm	···	Date	Drillin	ıg St	arte	ed.	Date 1	Drilling	Com	pleted	Drillin	P-5	hod
	Name: 7		ıvironn		Name:] Services					$\frac{12}{d}$				1	$\frac{12}{d}$	-		geop	_	
	nique				Well II		Well Name GP-5			Static	Wat	er .			ce Elev	ation	MSL	Boreh		ameter nches
Loca	Grid (Drigin		stimate	d: [X,)	or Bo	ring Location	xi	 r	_at	0	1		Local Grid Location			n	_ 	1	***************************************
$\underline{\mathbf{sw}}$	State Plane N, E SW 1/4 of SW 1/4 of Section 18 , T 25 N, R 18								Lo		0	'	11	i	F	E eet ⊏	1 N 1 S _	,	_ Feet	□ E □ W
Facil	ity ID				County	/	WANO	Co	ounty C	Code	Civ	vil	Town/	City/ o	ty/ or Village Maple Grove					
San	nple		શ	<u> </u>	<u> </u>						+						Prope			
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ber Pype	rth A	Blow Counts	h in I		A		ogic Origin For Major Unit	•		cs	Ę.		ram	HID	ressi gth	ture	ъ.	city	0	nent
Number and Type	Length Att. & Recovered (in)	Blow	Depth in Feet (Below ground surface)							n s	Graphic	Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1 S-1	12			$\frac{0.0}{0.5}$	- 0.5 - 2.0	Gravel Moist.	reddish brown	sandy lo	oam	GW ML-	0			 >1,00						Lab Sample
S-2	12		4 6 8	2.0	- 4.0		reddish brown			ML-				0 >1,00						Lab Sample
S-3	16		E_4	/ 4.0	- 6.0	Moist,	sandy lo	am \					0 >1,00							
			Ē							ML-				0						
S-4	12		E^6	J 6.0	- 7.5	Moist,	reddish brown :	sandy lo	am L	ML-				>1,00 0		1				
S-4	6		E۶	7.5		Moist,			\ 	sw		. - -		>1,00 0						
S-5	9		E	8.0	- 9.0	sandy l				ML-	ı i i			290						
S-5	9		= 10	9.0	- 10.0	Satura	ted, fine-mediur	n loamy	sand			' '		290						
			E ¦											1						
			E																	
			Εı									1								
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I hereb	y certi	fy tha	it the in	nform	ation o	n this fo	rm is true and	correc	t to th	e best	of r	my	know	ledge	 •			l.		
Signatu	re	21	12	20				F	irm	Endea	vor l	Env	vironm	ental S	Service	s, Inc.				

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

	ershed/Wastewater nediation/Redevelopment	Personal Personal	nagement [MONITORING WEL Form 4400-113A	L CONSTRU Rev. 7-98	CTIO
	cal Grid Location of Wel	1		Well Name		
Da Swamp	ft.	า๋ 🛮 ห. S	ft. 🛮 🛱.	GP-5		
Facility License, Permit or Monitoring No. La	cal Grid Origin 🔲 (esti t,	imated: X) or Long.	Well Location [X	Wis, Unique Well No. NA		
Facility ID St.	Plane ft.	. N,		Date Well Installe 12_/		3
The same of 1311-11	ction Location of Waste/S		. X F.	Well Installed By: Na	_	γγ
Wall Cade 11 / mw 12	<u>W_1/4 of _SW_1/4 of Se</u>		_N, R18 🗇 🕏	Tony Ka		ald Land
Lo	cation of Well Relative to Upgradient s	Waste/Source	Gov. Lot Number	-		_
	☐ Downgradient n			On-site Environmen	tal Services, In	nc.
A. Protective pipe, top elevation	ft. MSL		 Cap and lock? Protective cover: 		☐ Yes X	No
B. Well casing, top elevation	ft. MSL		a. Inside diameter			in.
C. Land surface elevation	ft. MSL		b. Length:	•		_ ft.
D. Surface seal, bottom ft. MSL of	The state of the s		c. Material:		Steel 🗆	
			1 A 3 25.1 N	0	Other 🗆	-
12. USCS classification of soil near screen: GP □ GM □ GC □ GW □ SW		I K	d. Additional pro	lection? e:	☐ Yes ☐	No
SM X SC MLX MH CL			ii yes, describe	÷;		3 0
Bedrock			S. Surface scal:		Bentonite Concrete	
13. Sieve analysis performed?	IX No				Other	2000000
14. Drilling method used: Rotary	□ 50	4	. Material between	well casing and protecti-		20.00
Hollow Stem Auger					Bentonite 🗆	30
Geoprobe Other	IX 🚛				Other 🗆	
46 Partition State and Window FT 0.2			. Annular space sea			
	□ 01 X: 99			ud weight Bentonite		
Tronc		(Lbs/gal m	ud weight Bente te Bentonite-ce	mite slurry	31
16. Drilling additives used? ☐ Yes	IX No		3 % Benton	volume added for any o	f the above	50
			How installed:	TOTAL MARKET TO MARK TO	Tremie	0 1
Describe	I 1000	· ***	, now metanou.	Trem	ie pumped 🏻	02
17. Source of water (attach analysis, if required)	:	l ₩			Gravity 🗆	0.8
		6.	. Bentonite seal:		te granules 🔲	3 3
- 1 for			b. □1/4 in. □3	i/8 in. □ 1/2 in. Bent	tonite chips	3 2
E. Bentonite seal, topft. MSL or	II.		c		Other 🗆	
F. Fine sand, top ft. MSL or	n.	7.	. Fine sand material	: Manufacturer, produc	t name & mesl	h size
G. Filter pack, top ft. MSL or	n.		b. Volume added	ft3		\$25E2
		. 8.		il: Manufacturer, produc		h size
H. Screen joint, top ft. MSL or	_ 5 ft.		a. Open borehole b. Volume added	ft ²		
I. Well bottom ft. MSL or	_10ft.		Well casing:	Flush threaded PVC sch	nedule 40 [X	23
J. Filter pack, bottom ft. MSL or	ft.			Flush threaded PVC sch	other	24
	10 0	10.	Screen material: P			
K. Borehole, bottom ft. MSL or	_10ft.		a. Screen type:		actory cut [X]	
L. Borehole, diameter _ 2 in.				Contra	Other	01
M. O.D. well casing 1.25 in.		` `	o. Manufacturer _ c. Slot size:	and the second s		1 in.
_		, ,	l. Slotted length:		.5	
N. I.D. well casing 1 in.		11.	Backfill material (b	selow filter pack):	None (X Other 🗆	
hereby certify that the information on this form	is true and correct to the	best of my know	ledge.			
Signature // /	Firm	. F	1 G Y			
IN KELL	Endeavo	or Environmenta	i services, Inc.			

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

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

Route to:

☐ Verification Only of Fil	and Se	al		inking Water aste Manage		Watershed/Wastewater Remediation/Redevelopmen							
1. Well Location Information					2. F	acilit	y / Owner Ir	iformati	on 👫				iligirs i
	ique Well	# of	Hicap #		Facili	ty Nar	ne	<u> </u>				***************************************	in marilia maini il
SHAWANO Remo	ved Well						Da Sw	amp				***************************************	www.gura
Lattitude / Longitude (Degrees a	nd Minutes	Method	i Code (eaa instructio	Facili	ty ID (FID or PWS)						
6	1 1	· [, code (ove monucu	·			mannings programme	manupalaniani pagagan a				
7		1			Licen 	se/Pe	rmit/Monitorin	ig# (-P-5				
14/14 SW 14 SW	Section	Tow	nship	Range [x]	Origin	al We	II Owner	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ryddiaddau o ddaeddiaddau ara	DOWN THE REAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON AND ADD		***************************************	William III
or Gov't Lot #	18	2			107								
Well Street Address	<u>L</u>		- 14	<u> </u>	Prese	nt We	Il Owner		***				
W2490 Hofa Park Drive					A # # 172 a			a Swam					
Well City, Village or Town		ani de estat de la com	Well	ZIP Code	Mailir	g Aaa	ress of Prese		r W2746 Half	Mila Daa	1		
Maple Grove			541	65-	City	f Droc	ent Owner			State	ZIP Cod		
Subdivision Name		······································	Lot#			iriga		mour		WI	5410		
					43.00		Liner, Scre	-	na & Gaali		<u> </u>		القرائد كالغاز
Reason For Removal From Servi	ce WIUn	ique Well	# of Rep	lacement W	²¹¹				ily or seam	iy matei	J a 1. 3.44		(1/ <u>1/1</u> [-/1
Temporary boring					Pu	np an	d piping remo	oved?		,	es 🛌	No	[x] _{N/A}
3. Well / Drillhole / Borehole	Informat	lon .			Lin	er(s) r	emoved?				res 📙	7	$[x]_{N/A}$
Monitoring Well .	Original C			(mm/dd/yyyy			emoved?					No	∐N/A
= -		12/	12/201:	3	<u>Ca</u>	sing le	eft in place?			<u> </u>	res 🔼	No	
Water Well			on Repo	rt is available	, Wa	s cas	ng cut off bel	ow surfa	ce?		/es <u>L</u>	No	$[X]_{N/A}$
X Borehole / Drillhole	please at	tacn.	Hanspierieranna	wyw.u.van.wa.e.v.	Dic	seali	ng material ris	se to surf	ace?	[x]		No	LLN/A
Construction Type:			_		Did		rial settle afte		rs?	ئيا	es X	No	I N/A
II II	Sandpoint)		Dug	•		If yes	, was hole re	topped?		الما ي	es L	No	[X] _{N/A}
[X] Other (specify): Geoprobe					II D with	entoni i wate	te chips were r from a know	n safe so	urce?		es 🗆	No	$[x]_{N/A}$
Formation Type:					يشسو ا		ethod of Placi		-			ALLIA CONTRACTOR	
[X] Unconsolidated Formation	[Bedro	ck				ctor Pipe-Gra						
Total Well Depth From Ground Su	irface (ft.)	Casing E)iameter	(in.)			ned & Poured nite Chips)	[X]	Other (Explai	in); <u>Gra</u> v	ity		
1()				Sealin						·	And the second	***************************************
Lower Drillhole Diameter (in.)		Casing C	epth (ft.)		Veat C	ement Grout			Clay-Sand			
						Sand-(Cement (Cond	crete) Gro	2 2	Bentonite-		лггу 🛪	Ħ
Nas well annular space grouted?		Yes	$[\mathbf{x}]_{No}$	Unknow	WT1	Concre				Bentonite			
f yes, to what depth (feet)?	Dani	n to Wate	La Carlo de La Carlo de La Carlo de La Carlo de La Carlo de La Carlo de La Carlo de La Carlo de La Carlo de La		For Me		ng Wells and	Monitorin	- Property				
yes, to mat depth (leety)	L'epi	I to Avere	, ficeth		5		ite Chips		Printering	te - Ceme			
	Salaman Karaman S	i versketeteteren.	-alk-mining	- Cironi amanani	San San San		ar Bentonite	5:91		te - Sand		·	
5. Material Used To Fill Well / D	rillhole				Fron	(ft)	To (ft.)	G C	ubic Feet		Mix F	Latio	1
Gravel					Sur	ace	0.5		0.01		100%		
3/8" chipped bentonite	,				0.5	Šiasii animau	10		0.2		100%	****************	17 ATHATI MARMANINI
	-	***************************************	manumum por										
5. Comments						KO-AK		૽ૺ૾૽૽ૼઌ૽૽ૢ૽ૡ૽૽ૺૼૺ૽			334 (197) 34 (197)	ivatera)	
	•												
. Supervision of Work	THE STATE OF S	101 010 03	Talente.	ar Section of the Company	4625,076,223	477119		75 EDGGK		NR Use		initial initial	lateoreu essena
Name of Person or Firm Doing Fill	on & Can	Ina I Ioa	202 1	Data of	Ellina 9 C	online	a (mm/ddhan	u) Data I	Received		d By	इंड्रेडिटिको । विदेशीयको ।	afrikan Zanasiri
Endeavor Environmental Servic	.,,	ang Lice	nse#	Late of	12/12		g (mm/dd/yyy 3) Pala	/araisen	NOI	Y 2		
Breet or Route					Telephon			Comn	ients -	ngas terik	**************************************	aluje	300 (V)
2280-B Salschel	der Court				(920)								
Dity		State	ZIP C	ode			Person Doing	Work)	Date	Sigpéd	7	***************************************
Green Bay		WI		13-		1	11 2			/	4/3/	//3	

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Ro	ute To:			Wastewater n/Revelopme			-	t 🔲								
							•		_							Page	e <u>1</u>	of	
Facil	ity/Proj	ect N	ame						Licer	ise/Per	mit/M	onitori	ng Nur	nber	Borin	g Num			
	Swam					C/C 1	1 A 1 E!						I		<u> </u>			GP-6	
	ig Drill Name: 7		: Nan			et (first, Kapugi	last) and Fir	m		Drillin	_		1		_		Drillin	ng Me	thod
			ıvironr		Services				$\frac{12}{m}$	$-\frac{12}{d}$	$\frac{20}{y}$	y y	$\frac{12}{m}$	$/\frac{12}{d}$	$\frac{201}{y}$	<u>y</u> <u>y</u>	geop	robe	
WIU	nique '	Well l	Vo.	DNR	Well I	D No.	Well Name	-	Final Static Water Level Surface E					ce Elev				ole Di	ameter
Local	Grid ()rigin	 	stimate	d: (x)	or Bo	GP-6 oring Location	n xl			_Feet l		Local	Grid I		MSL		i	inches
State	Plane_				N, _			E	I	_at		<u>' "</u>	Local	Ona		1 N			□ E
SW	1/4 of	SW	_ 1/4 o	f Secti	on 18	<u>, T</u>	25 N, R 1	8_E_	Loi			·			eet 🗆			_ Fee	t W
Facili	ty ID				Count		WANO	ľ	County C 59	Code	Civil	Town/	City/ o	r Villa		laple G	rove		
San	nole	·	T 6	<u>, </u>	1	SHE	WAITO			<u> </u>	┼	T	ĺ	<u> </u>		Prope			T
	श्र 🖫	ਲ	Depth in Feet (Below ground surface)			Soil/Ro	ck Description	on								T	1.00		1
r g	Length Att. Recovered (Blow Counts	n Fe		1	And Geo	logic Origin l			S	١	=	۵	Compressive Strength	87		ž.		ants
Number and Type	Length Att Recovered	∑ ĭ	pth i	'l		Each	Major Unit			sc	Graphic	Well Diagram	PID/FID	npre	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
N N	Re	BIC	2 8	1						Ω		≱ ÿ	I Id	Sep	కర్	Ľ.	Pla Inc	P2	83
S-1	12		=	$\int \frac{0.0}{0.5}$	- 0,5 - 2.0	Grave	l , reddish brov	vn sandv	loam	GW	٥		 4.4		i				
S-1	12		3 4 5 5	0.3	- 2.0	MOISE	, reduish broy	wii sanuy	10#111	ML-		ľ	7.7						
]		F	1							[]	1				1			
S-2	14		E_2	$\sqrt{2.0}$	- 4.0	Moist.	reddish brov	vn sandy	loam \				16.5						Lab Sample
			E	l						ML-									
			E ₃	i															
	i		E	ł															
S-3	16		E 4	√4.0	- 6.0	Moist,	reddish brov	vn sandy l	loam \				13.0						
			E							ML-									
	1		E 5						İ										
			þ											ļ					
S-4	16		E^6	6.0	- 8.0	Moist,	reddish brow	vn sandy l	oam \	ML-S			16.8						Lab Sample
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			E 7						ľ		1111		I						
			8]					
S-5	18		E 8	√8.0	- 10.0	Moist,	fine-medium	silty sand	,	SM			79.5				Ì		Lab Sample
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	·	iy ina	the 1	niorm	ation o	n this f	orm is true a	ma corre		e best	or my	Know	reage	•					
.5a.u	Firm Endeavor Environmental Services, Inc.																		

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

	/atershed/Wastewater emediation/Redevelopment	Waste Management	MONITORING Form 4400-113	G WELL CONSTRUC A Rov. 7-98	CTIO
Facility/Project Name Da Swamp	Local Grid Location of Well		Well Name	GP-6	
Facility License, Permit or Monitoring No.	Local Grid Origin 🔲 (esti	mated: [X] or Well Loc	ation IX Wis. Unique V	Vell No. DNR Well ID	No.
WI 111 TYP	Lat,		or NA_	allo d	
	St. Plane ft. Section Location of Waste/S		. S/C/N Date Well hist	alle 12_/_12_/_2013	} <u>-</u>
Type of Well	SW_1/4 of SW_1/4 of Se Location of Well Relative to	c. 18, T. 25 N. R. 1	OUW Tony	By: Name (first, last) an Kapugi	
Distance from Waste/ Enf. Stds.	u Upgradient s d Downgradient n	☐ Sidegradient		ironmental Services, Inc	ic.
	ft. MSL	1. Cap and		☐ Yes X	No
B. Well casing, top elevation =	ft. MSL	1 1137/	ve cover pipe: e diameter:		in.
	ft. MSL	b. Leng		**** *** *	_ ft.
	Commercial Contract	c. Mate	rial:	Steel 🗆	04
D. Surface seal, bottom ft. MS	\$2.500 CONT.			Other 🗆	-
	v 🗆 SP 🗆	1 1 1 1 1 1	tional protection? s, describe:	☐ Yes ☐	No
SM X SC □ ML X MH □ C Bedrock □	_ СН 🗆 📜	3. Surface	scal:	Bentonite Concrete	30 01
13. Sieve analysis performed?	es IX No			Other	3333
14. Drilling method used: Rota		4. Materia	between well casing and	protective pipe:	*****
Hollow Stem Aug	er □ 41 er IX			Bentonite 🗆	30
Geoprobe Oth	er ix	5 A	Granula	Other 🗆	33
	Air □ 01		space seal: a. Granula Lbs/gal mud weight B		35
Drilling Mud 🗆 0 3 No	me [X 99	с	Lbs/gal mud weight	Bentonite slurry	3 1
16. Drilling additives used? ☐ Ye	s X No	d'	% Bentonite Ben		50
_		e f. How	Ft ³ volume added f installed:	Tremie	01
Describe	EZEA	1, 110%	mstance.	Tremie pumped 🛘	02
17. Source of water (attach analysis, if requir	ed):			Gravity 🗆	08
		6. Bentoni		Bentonite granules	33
E. Bentonite seal, top ft, MSL	or ft.	b. 🖂	4 in. □3/8 in. □1/2 in	•	3 2
Fine sand, top ft. MSL	or ft.	7. Fine san	d material: Manufacturer	, product name & mesh	size
G. Filter pack, top ft. MSL	orft.	a b. Volum	ne added	ft ³	
I. Screen joint, top ft. MSL	or _ 5 ft.	1.4436	ck material: Manufacture		h size
. 1.07	10 0	b. Volu	ne added	ft 3	
Well bottom ft. MSL	or_10tt.	9. Well cas	-	PVC schedule 40 [X PVC schedule 80 []	23
Filter pack, bottom ft. MSL	эгft.				
. Borehole, bottom ft. MSL	or _ 10 ft.	10. Screen n a. Scree	naterial; PVCn type:	Factory cut [X	11
Borehole, diameter2 in.					01
I. O.D. well casing 1.25_ in.		b. Manu c. Slot s	facturer	0.01	
. I.D. well casing _ 1 in.		1	d length: naterial (below filter pack		
				Other 🗆	
tereby certify that the information on this for	m is true and correct to the	best of my knowledge.			

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 o

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

| Route to:

Verification Only of Fi	ll and Seal	Drinking Wa		nt _	Watershed/W Other:	'astewater	Remedi	ation/Redevelopment
1. Well Location informatio	nika ili ka			2. Facilit	v / Owner In	formation		4844419751314
	nique Well # of	Hicap #	minical iliana	Facility Nar	The state of the s	99 III 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 II 180 I	el vidalastativinas etc.	2.2 15.51 17.3 15. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1
	oved Well	•			Da Swa	mp		
SHAWANO			·	Facility ID (FID or PWS)		permaning asset as transport (1811	(ORI III (SA) (A) (A) (A) (A) (A) (A) (A) (A) (A) (
Lattitude / Longitude (Degrees a	ind Minutes) Method	l Code (see Instru	ctions)					
- months and a months and	'N			License/Pe	rmit/Monitoring	2# COC	409	
•	w					** GP-6		
74/74 SW 14 SW	minima variable i	nship Range r	7	Original We	II Owner			
or Gov't Lot#		- 1-0	X E					
The state of the s	1 10 1 2	5 N 18	W	Present We	II Owner			
Well Street Address					D	a Swamp, LLC		
W2490 Hofa Park Drive		NATE OF STREET	V:::::::::::::::::::::::::::::::::::::	-Mailing Add	iress of Prese	nt Owner		
Well City, Village or Town		Well ZIP Code				W2746 Ha	lf Mile Road	i
Maple Grove		54165-		City of Pres	ent Owner		State	ZIP Code
Subdivision Name		Lot#			Seyn	10ur	WI	54165-
Decrea Ear Pomeral From Con	inn AAN Linique Moli	# of Replacement	\A/call	4. Pump,	Liner, Scree	n, Casing & Sea	aling Mater	tal
Reason For Removal From Serv	ICE AN OUNDER MAN	* or vehicement	AAGH	Duma aa	d alaba aama	unelO	П	res \square_{No} [x] _{N/A}
Temporary boring			- 200	- 1	d piping remo	veur	[*****]	res \square_{No} [x] _{N/A}
3. Well / Drillhole / Borehole	erin i da i di di di di di di di di di di di di d			4	removed?		[x]	
Monitoring Well	Original Construction	• • • • • • • • • • • • • • • • • • • •	ууу)		amoved?			fazi [m]
Water Well		12/2013	·	Casing le	ft in place?			THE RESERVE THE PROPERTY OF TH
X Borehole / Drillhole	If a Well Constructi please attach.	on Report is availa	ıble,	Was cas	ng cut off belo	w surface?		Yes No NA
ACTIVITY	Thease anger	CULTURAL DISCONSISSION CONTRACTOR	*********	Did seali	ng material ris	e to surface?		
Construction Type:				Did mate	rial settle after	24 hours?		res X No NA
74 44	(Sandpoint)	Dug			, was hole ret			/es □No XNA
X Other (specify): Geoprob	e		****	If bentoni with wate	te chips were t r from a knowr	used, were they hy n safe source?	drated	res $\square_{No} [\mathbf{x}]_{N/A}$
Formation Type:						g Sealing Material		
[x] Unconsolidated Formation	☐ Bedro	ritr		Condu	ctor Pipe-Grav	rity 🔲 Conducto	r Pipe-Pump	ed
Total Well Depth From Ground S	- Martine - Mart				ned & Poured	[X] Other (Exp	plain): Gray	/ity
1		remoter (in.)		Sealing Mate	nite Chips)	, ,		
Lower Drillhole Diameter (in.)		epth (ft.)		4 r	ement Grout	ř	Clay-Sand	Slurry (11 lb./gal. wt.)
A A	2	Alema Inst			Cement (Conci	rete) Grout F		Sand Slurry " "
	<u> </u>	·1		Concre	-	is in the second	Bentonite	•
Was well annular space grouted?	Y LYes I	X No Unkr	nwon	•		nonitoring Well Bo		•
If yes, to what depth (feet)?	Depth to Wate	r (feet)		and the same of th	ite Chips	- Innert	onite - Ceme	
				Granul	ar Bentonite	Bent	onite - Sand	Slurry
5. Material Used To Fill Well / I	Kimalia (1800)		per eg	From (ft.)	eric ellesiationer	d Caliana		Mir Datie
And the state of t	At millione	#691575050659156		3 10 W. J. May 2 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	To (ft.)	Cubic Fe	et	Mix Ratio
Gravel				Surface	0.5	0.01		100%
3/8" chipped bentonite	•			0.5	10	0.2		100%
				at the too Very trace	North Annual Control	entality averages vasticas	- with the second second	
6. Comments			(1):11					
	•							
	Harada Salam Carrina, e d	i napistarna ji shki (basi)	14 <u>1)</u> (161		. /	XII. SANA MARKATAN AND SANA		
7. Supervision of Work Name of Person or Firm Doing Fil		og di Data	ME FUR	mm Ø C11	o (DNR Use	
Endeavor Environmental Service	" " i	nse#Date	OF THE	ing & Sealing 12/12/201	g (mm/dd/yyyy 3) Date Received	NOTE	id By
Street or Route			ITel	ephone Num		Comments	amarkateri Kencenalah	
2280-B Salsche	ider Court			920) 437-2		PARTITION OF		
City	State	ZIP Code			Person-Boling	PANOR CONTRACTOR	šišieten etišis. Nata	Signed /
Green Bay	WI	54313-		131	LIC		12	//3//3

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION Form 4400-122 Rev. 7-98

Watershed/Wastewater Waste Management Route To: Remediation/Revelopment Other Page_ Facility/Project Name License/Permit/Monitoring Number Boring Number Da Swamp Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Started Date Drilling Completed Drilling Method First Name: Tony Last Name: Kapugi $\frac{12}{1} \frac{12}{m} / \frac{12}{d} / \frac{2013}{y} \frac{y}{y} \frac{y}{y}$ $\frac{12}{m} / \frac{12}{d} / \frac{2013}{y}$ geoprobe Firm: On-site Environmental Services, Inc. mm WI Unique Well No. DNR Well ID No. Well Name Final Static Water Level Surface Elevation Borehole Diameter GP-7 Feet MSL Feet MSL inches Local Grid Origin (estimated: X) or Boring Location XI Local Grid Location n Lat State Plane \square N \Box E , 11 0 SW 1/4 of SW 1/4 of Section 18 T 25 N. R 18 Long Feet D S Feet□ W Facility ID County Code Civil Town/City/ or Village County 59 **SHAWANO** Maple Grove Sample Soil Properties Depth in Feet (Below ground surface) એ Recovered (in) Soil/Rock Description Blow Counts Length Att. Compressiv Strength And Geologic Origin For Number Plasticity Index and Type PID/FID Moisture Content USCS Graphic Each Major Unit Liquid Limit P 200 Well ð GW S-1 - 0.5 Gravel 3.6 Moist, reddish brown sandy loam ML-S-1 10 0.5 - 2.0 21.4 Lab Sample 2.0 - 4.0 Moist, reddish brown sandy loam S-2 12 ML 32.7 4.0 Moist, reddish brown sand loam S-3 12 - 6.0 MI with trace sand 487 Lab Sample Very moist, reddish brown sandy S-4 12 6.0 - 8.0 ML. Very moist, fine-medium silty 211 S-5 - 10.0 14 SM sand I hereby certify that the information on this form is true and correct to the best of my knowledge. Signature Firm Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wis., Dept. of Natural Resources dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of 2

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

Route to:

Verification Only	of Fill	and Sea	.I		rinking	Water fanageme	nt	Watershed/V	/astewater	Reme	diation/Red	levelopment
1. Well Location Inform	nation			taliani orbit	eyey.	Medie	2. Facilit	y / Owner in	formation 🐇			
County		que Well #	of I	Hicap #		- XII XX - III XX - XX	Facility Nar	The state of the s	Control of the Control of States	2000 10 00 10 00 20 00 20	15 7	de la companya de la
SHAWANO	Remov	ed Well						Da Swa	ımp			
Lattitude / Longitude (Degr	ose and	d Minutee)	Mathod	Code (opa in	etrictione	Facility ID (FID or PWS)			320000000000000000000000000000000000000	
tattitude / roughtide (roegi	ees ou	'N	Memod	0000	'sac iii	au ucaona				Makan da da da da da da da da da da da da da		
					·		License/Pe	mit/Monitorin	9# GP-	7		
14/14 SW 14 SW	V	Section	row	nship	Range	e [x]	Original We	II Owner		(m) ///////////////////////////////////	, , , , , , , , , , , , , , , , , , ,	
or Gov't Lot #	,	18	25	5 N	1	Hw						
Well Street Address	N S (MICHEMATICAL)	<u> </u>		- 14	1		Present We					
W2490 Hofa Park Drive							L T a 710 a a C al a		a Swamp, LLC			·
Well City, Village or Town	· <u> </u>		***************************************	Well.	ZIP Co	de	-Mailing Add	ress of Prese		Half Mile Ro	ad	
Maple Grove				54	165-	-	City of Pres	ant Cumar	. YY 4/40	State	ZIP Code	~~
Subdivision Name				Lot #			City of Fres			WI	5416	
							2 New 23 2 3 2 3 2 8	an and a majoritation	nour	***************************************		je Špartinalijai
Reason For Removal From	Servic	e Wi Unio	que Well	# of Re	placem	ent Well	-a. Pump,	Liner, Scree	n, Casing & S	eanng mac	enai :	emandenski 1-1
Temporary boring							Pump an	d piping remo	ved?	<u></u>	THE PERSON NAMED IN	No [X] N/A
3. Well / Drillhole / Bon	ehole I	nformatic	on 🐬				Liner(s) r	emoved?		Ļ	JYes ∐	No [X] N/A
	k	Original Co	nstructio	n Date	(mm/d	d/yyyy)	Screen re	moved?		<u>_</u>	∐Yes ∐	No [X] N/A
Monitoring Well .	L		12/1	2/201	3		Casing le	ft in place?		L	JYes L	No X N/A
Water Well		if a Well C		on Repo	ort is av	vailable,	Was casi	ng cut off bel	ow surface?	<u>[</u>		No [X] N/A
X Borehole / Drillhole	L.	please atta	ıch.		***************************************	····	Did seali	ng material ris	se to surface?	[X	Yes \square	No DNA
Construction Type:							Did mate	rial settle afte	r 24 hours?		$]_{Yes}[x]$	No ON/A
Drilled D	riven (S	andpoint)	ļ	Dug	l		If yes	, was hole rel	lopped?		J _{Yes} □	No [X] N/A
X Other (specify): Geo	probe						If bentoni	te chips were	used, were they n safe source?	hydrated	J _{Yes}	No [x] _{N/A}
Formation Type:									ng Sealing Mater		mico ma	110 4 31477
[x] Unconsolidated Forma	. 12	_	Bedroo	u.l.				ctor Pipe-Gra	- Junior	tor Pipe-Pun	nped	
Total Well Depth From Grou		<u> </u>			- (l \		Screen	ed & Poured		Explain): <u>Gr</u>		
Lotal Well Depth From Grot	uno sur 10	race (n.) L	Jasing D	lameter	(In.)		the section of the section of the section of	nite Chips)	* * Onlo. (*		<u>Y</u>	
Lower Drillhole Diameter (in			Casing D	anth (ft	١		Sealing Mate	enais ement Grout		TT Clay Sa	nd Slumu /1	1 lb./gal. wt.)
rower billingie biblicier (ii:	2		Zasiriy D	ehm (m.	• •			ement (Conc	min Court		e-Sand Slu	
			r	 '7		,	T Concre		icie) Oroni	[X] Bentonit		117
Mas well annular space gro	uted?	. Ц	Yes L	X No	Ш	Jnknown			Monitoring Well L	***************************************	•	
f yes, to what depth (feet)?	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Depth	to Water	r (feet)			\$ 3 **********	ite Chips	- January	intonite - Cen	-	
								ar Bentonite	-	ntonite - San		
5. Material Used To Fill W	ell / Dr	illhole					From (ft.)	Το (ft)	Cubic I	100.00 -0.21	Mix R	atio
Gravel						****************	Surface	0.5	0.0		100%	
3/8" chipped bentonite	diamini (ma tt	*		***************************************		COMPANIES OF THE PROPERTY OF	0.5	10	0.2		100%	*****
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5. Comments	21/41/20))))	MARKATAN CANADA	XV 133		12 (A.A.) (L.) (1.25) Y. (1.25) (L.) (1.25) Y. (1.25) (L.) (1.25)			vogos mus	GWW. SI		agumaz
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lame of Person or Firm Doi	ng Fillir	ng & Sealin	ng Licer	ise#	þ	Date of Fil	ling & Sealing	(mm/dd/yyy	y) Date Receive	d No	oted By	
Endeavor Environmental	Service	s, Inc.					12/12/201	3	Magazina k			
Street or Route							lephone Num		Comments :			
2280-B Sa	ilscheid						920) 437-2					WESTER SE
ity		•	State	ZIP C			Signature of	Person Doing	Work	Dε	ite Signed	19
Green Bay			WI	543	313-			/ LE	- ·	10	418//	5

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rou	ite To:				wa.			ıt []									
Rapil	lity/Pro	inat Ni							IT:	nse/Pei		/N.K.		- Nin	L	IDi.	Page g Nurr	<u> 1</u>	of _	Address of the second s	
Da	. Swam	р							Lice	nse/Pei	my	/TATC	muori	ng ivui	noer	Born	ig 14um		GP-8		
	ng Drill Name: '		: Nam	e of ci	rew chi t Name:	ef (first, Kanugi	last) and I	irm	,	Drillin	_			1		-	_	Drilli	ng Me	thod	
		•	vironn		Services				_12 m n	$\frac{2}{d} / \frac{12}{d}$	/_ <u>y</u>	701 y	$\frac{3}{y} - y$	$\frac{12}{m}$	$/\frac{12}{d}$	$\frac{201}{y}$	$\frac{3}{y} = \frac{3}{y}$	geop	geoprobe		
WIU	Jnique	Well N	Vo.	DNR	Well I	D No.	Well Nar GP-8	ne	Fina	Static			Level ISL	Surface Elevation Feet MSL				Borehole Diameter 2 inches			
Loca	I Grid (d: IX.)	or Bo	ring Locat	ion X			0	21 IV		Local	Grid I			<u> </u>		inches	
SW	Plane _ _ 1/4 of		1/4 o		N, _ on <u>18</u>	, T_2	25_N, R	_ E 18E_	L	Lat ong	0	•				eet 🗀	1 N 1 S _		□ E Feet□ W		
Facil	ity ID				County	у	WANO		County59	Code	Civ	vil '	Town/	City/ o	r Villa		laple C	rove			
Sar	nple		ace)		-											Soil	Prope	rties		I	
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)		A	and Geol	ck Descrip ogic Origi Major Uni	n For		uscs	Graphic	Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments	
S-1 S-1	14		E	0.0	- 0.5 - 2.0	Gravel Moist.		own sandy	loam	GW ML	10	11		 0.8							
S-2	14		E_2	72.0	- 4.0			own sandy		ML-				1.1						Lab Sample	
S-3	16		E ₄	√ 4.0	- 6.0	Moist,	reddish br	own sandy	loam	ML-				1.3			i i				
S-4	20		E ₆	J 6.0	- 8.0	Moist,	reddish br	own sandy	loam	ML-				2.8							
S-5 S-5	6 14		6	$\int \frac{8.0}{8.5}$	- 8.5 - 10.0	Moist, Saturat	reddish broed, fine-m	own sandy edium loan	loam ny sand	ML- SM		* 1		389 389						Lab Sample	
hereb	y certi	fy tha	t the in	nform	ation o	n this fo	rm is true	and corre	ect to th	e best	of r	щ my	know	ledge		1		I			
Signatu	re	2	2	2	2				Firm	Endea	vor	Env	/ironn	ental S	Service	s, Inc.	1, 1				

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State of Wis., Dept. of Natural Resources dnr.wl.gov

Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

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

Verification Only of Fill an	nd Seal	=	king Water		 Watershed/\	Vastewater	Remed	iation/Redeve	elopmenit		
The second of th		Was	ite Manageme		Other:			ALLWS::27127::100			
1. Well Location Information				and the second second second		nformation	skauks ist				
County WI Unique		licap #		Facility Nar							
SHAWANO				*** *** ***	Da Sw		MENTANGE CHO MANIFEST COMPANY ESSE	WHO THE WILLIAM PROPERTY OF THE PERSON NAMED AND ADDRESS OF TH			
Lattitude / Longitude (Degrees and M	linutes) Method	Code (se	e instructions	—acility ID ()	FID or PWS)						
	' 'N			icanea/Da	rmit/Monitorir	10 # A					
•	w			Liver sevi-e	THE MICHINGS	19# GP-	- G				
1/11/ 0331				Original We	II Owner	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE		······································	***************************************		
211			ange [x] E								
or Gov't Lot #	18 25	ואי	18 W	Present We	II Owner						
Well Street Address					I	Da Swamp, LLC					
W2490 Hofa Park Drive		147.11 755	7.0-4-	Mailing Add	ress of Prese	ent Owner					
Well City, Village or Town		Well ZIF				W2746 H	alf Mile Roa	d			
Maple Grove Subdivision Name		54165 Lot#)-	City of Pres	ent Owner		State	ZIP Code			
Cubalyision Hairie		LOC#			and the same party and the first	mour	WI	54165-			
Reason For Removal From Service	WI Unique Well	# of Repla	cement Well	-4. Pump,	Liner, Scre	en, Casing & Se	aling Mate	rial ::			
Temporary boring		,		Pump an	d piping remo	oved?		Yes DNo	$[x]_{N/A}$		
3. Well / Drillhole / Borehole Info	omation			71	emoved?			Yes \square_{No}	l"1		
	ginal Constructio	n Date (m	rm/dd/yyyy)	4 ' '	emoved?			Yes DNo	$[x]_{N/A}$		
Monitoring Well .		2/2013	,,,,,,	Casing le	eft in place?			Yes No	$[x]_{N/A}$		
Water Well If a Well Construction Report is available,				ng cut off be	low surface?		Yes \square No	$[x]_{N/\ell}$			
[X] Borehole / Drillhole please attach.				~	se to surface?		Yes DNo	$\square_{N/A}$			
Construction Type:			1	rial settle afte			Yes [x]No	□N/A			
Driven (Sandpoint)			If ves	, was hole re	topped?		Yes \square_{No}	$[x]_{N/A}$			
X Other (specify): Geoprobe				If bentoni	te chips were	used, were they h	wdrated	Yes \square No	$[x]_{N/A}$		
Formation Type:			***************************************			ng Sealing Materia		162	W-711477		
[x] Unconsolidated Formation	☐ Bedroo	.t.		Conductor Pipe-Gravity Conductor Pipe-Pumped							
Total Well Depth From Ground Surfac	housest.		a l	Screened & Poured X Other (Evolute) Gravity							
10	e (it.) Casing Di	iamotoi (ii	11.7	(Solitonic Cinys)							
Lower Drillhole Diameter (in.)	Casing Do	enth (ft.)		Sealing Materials Neat Cement Grout							
2	777	ateria (arri		Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "							
	T I	X] _{No} [T	Concre	-		X] Bentonite				
Was well annular space grouted?			Unknown	1		Monitoring Well Bo	oreholes Only				
if yes, to what depth (feet)?	Depth to Water	(feet)		☐ Bentor	ite Chips	☐ Ben	itonite - Ceme	int Grout			
				☐ Granul	ar Bentonite	☐ Ben	tonite - Sand	Slurry			
5. Material Used To Fill Well / Drillh	ıole			From (ft.)	To (ft.)	Cubic F	eet	Mix Rati	0		
Gravel				Surface	0.5	0.01		100%			
3/8" chipped bentonite	<		Management of the control of the con	0.5	10	0.2	·····				
3. Comments	A CONTRACTOR OF THE PROPERTY O			17:35:4538 17:35:45:45			Wallage B		Mir in		
											
7. Supervision of Work							DNR Use	Only			
Name of Person or Firm Doing Filling 8	& Sealing Licen	se#	Date of Fil	ling & Sealing	(mm/dd/yyy	y) Date Received		d By			
Endeavor Environmental Services, In	1			12/12/201							
Street or Route		***************************************	Те	Telephone Number Comments							
2280-B Salscheider			Marine de la companya del la companya de la company	9 <mark>20) 437-</mark> 2					opija Alb Izaren		
City	State	ZIP Cod		Signature of	Person Doin	Work .	Date	Signed	,		
Green Bay) \X/Y	5/313	2		11 11/1	-		1//2//	/		

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122

Rev. 7-98

Route To: Watershed/Wastewater Wasternediation/Revelopment			t Ц								
									s <u>l</u>	of _	
Facility/Project Name Da Swamp	Lice	ense/Per	mit/Me	onitorii	1g Nur	nber	Borin	g Nun		1W-1	
Boring Drilled By: Name of crew chief (first, last) and Firm	Date	Date Drilling Started Date Drilling Completed Drilling Method							thod		
First Name: Darrin Last Name: Firm: Geiss Soil & Samples LLC	$\frac{1}{m}$	$\frac{2}{n} / \frac{20}{d}$	$\frac{201}{v}$	3 v v	$\frac{12}{m}$	$\frac{20}{d}$	$\frac{201}{v}$	$\frac{13}{\sqrt{y}}$	holle	w ster	n auger
WI Unique Well No. DNR Well ID No. Well Name		l Static	Water	Level		ce Elev					ameter
		_	Feet N		Local	Grid I		MSL	6.2	25 j	nches
State Plane N, E		Lat	0 0 '		Lice	Of Id I] N			□ E
SW 1/4 of SW 1/4 of Section 18 , T 25 N, R 18 E	L County	ong		Town/	Cityle			1 S _		_ Fee	t W
SHAWANO SHAWANO	59		CIVII	iowny	City/ u	it Ama		Iaple G	rove		
Sample		T					Soil	Prope	rties	1	
Soil/Rock Description And Geologic Origin For						ive	į				<u>s</u>
Number Rand Type Length Att. & Blow Counts Blow Counts Blow Counts Blow Counts Blow Counts Blow Counts Below ground surface Below ground surface) Each Major Unit		CS	ji Pic	Well Diagram	PID/FID	Compressive Strength	Moisture Content	ig i	Plasticity Index	۰	RQD/ Comments
Numara and Lean Blox Record Blox Blox Below		US	Graphic Log	We. Diag	OF CI	Stre	CM	Liquid Limit	Plas	P 200	\S\2
	y loam	TO ML-									
S-1 $\begin{vmatrix} 10 \\ S-2 \end{vmatrix}$ $\begin{vmatrix} 10 \\ 12 \end{vmatrix}$ $\begin{vmatrix} 0.5 \\ -2.0 \end{vmatrix}$ Moist, reddish brown sandy $\begin{vmatrix} 2.0 \\ -4.0 \end{vmatrix}$ Moist, reddish brown sandy		V	!								Lab sampl
		ML-									1
S-3 18 4 4.0 - 6.0 Moist, reddish brown sandy	y loam	ML-									
S-1 S-1 10 S-2 12 $=$ 2 $=$ 2 $=$ 2.0 $=$ 3.5 $=$ 4.0 $=$ 4.0 $=$ 4.0 $=$ 6.0 Moist, reddish brown sandy $=$ 8.4 20 $=$ 6 $=$ 6.0 $=$ 8.0 Moist, reddish brown sandy $=$ 8.0 $=$ 13.5 Earth drill	y loam	ML-									Lab sample
S-5 8 8.0 - 13.5 Earth drill											
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E at 6ft bgs in fi	5/								l		
Note: Drilling activities encountered refuse at 6ft bgs in fi					1	ŀ	1				
hereby certify that the information on this form is true and corn	rect to t	he best	of my	know	ledge	•					
Signature DDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	Firm	Endea	vor En	vironn	ental S	Service	s, Inc.				

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	Watershed/Wastewater[I	Management [MONITORING WELL CO. Form 4400-113A Rev	NSTRUCTION v. 7-98
Facility/Project Name Da Swamp	Remediation/Redevelop Local Grid Location of	ment Other Mell	ft. □ E.	Well Name MW-1	
Facility License, Permit or Monitoring No.	Local Grid Origin	(estimated: X)	or Well Location X	Wis. Unique Well No. DNR	Well ID No.
Facility ID	St. Plane	ft. N,		Date Well Installe 12_/_20_	
Type of Well Well Code 11 / mw	Section Location of We SW_1/4 of SW_1/4	of Sec. 18, T.			rst, last) and Firm
Distance from Waste/ Enf. Stds.	Location of Well Relat u Upgradient d Downgradient	s 🗌 Sidegradi	ent	Geiss Soil & Samples LLC	2
**************************************	ft. MSL		- 1. Cap and lock?		Yes X No
	ft. MSL	FAS	2. Protective cover p a. Inside diameter	-	8 in.
C. Land surface elevation	ft. MSL		b. Length:		1 ft.
	- Trans	vii Jass	g c. Material:		Steel X 04
D. Surface seal, bottom ft. MS	100.6377.6		er. A	•	Other 🗆 🏬
12. USCS classification of soil near screen GP GM GC GW S SM X SC ML X MH C	w 🗆 sp 🗆 🗎		d. Additional pro If yes, describe	Pi	Yes □ No
Bedrock			3, Surface scal:		tonite 30
13. Sieve analysis performed?	es IX No		\		ncrete X 01 Other 🗆 🎆
14. Drilling method used: Rota			4. Material between	well easing and protective pipe	300.000
Hollow Stem Au	•			•	tonite IX 30
Ot	her 🗆 📖				Other 🗆 🧱
			5. Annular space sea	a. Granular/Chipped Bent	
,	Air 🗆 01			ud weight Bentonite-sand	slurry□ 35
Drilling Mud □ 0 3 N	one X 99			and weight Bentonite si	
16. Drilling additives used?	es IX No			te Bentonite-cement	
10. Drining additives used:	CS IX INO		e0.75Ft ³	volume added for any of the a	
Describe			f. How installed:		emie 🛮 01
17. Source of water (attach analysis, if requi				Tremie pun	· _ ~ ~ ~
, , , , , , , , , , , , , , , , , , , ,			C. Daniela de la calla	a. Bentonite gra	avity D 08
			6. Bentonite seal:	a, Bentonite gran	
E. Bentonite seal, topft, MSL	or _1 ft.				chips IX 32 ther \square
F. Fine sand, top ft. MSL	or _ 2.5 ft.		7. Fine sand material a. Fine sand	: Manufacturer, product name	e & mesh size
G. Filter pack, top ft. MSL	or 3 ft.	個個人	b. Volume added	0.5 ft ³	399(840
H. Screen joint, top ft. MSL				al: Manufacturer, product nam	e & mesh size
		T	b. Volume added	4.5 ft ³	
I. Well bottom ft. MSL	or _13ft.		9. Well casing:	Flush threaded PVC schedule Flush threaded PVC schedule	-
J. Filter pack, bottom ft. MSL	or _ 13.5 _ ft.		10. Screen material: P	Ot	ther 🗆 🚉
K. Borehole, bottom ft. MSL	or _ 13.5_ ft.		a. Screen type:		cut [X 11]
L. Borehole, diameter6.25_ in.			b. Manufacturer	0	ther 🗆 🎆
M. O.D. well casing 2.37_ in.		\	c. Slot size: d. Slotted length:		0.01 in. .10 ft.
N. I.D. well casing 2.06_ in.		`	11. Backfill material (t	• •	lone [X 14 ther \square
I hereby certify that the information on this fo	rm is true and correct to	o the best of my kn	owledge.		487324
Signature // //	Firm				
- /// Z///		deavor Environme	ntal Services, Inc.		

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastew	ater 🔲	Waste Management			
Remediation/Redev	elopment [X]	Other			
Facility/Project Name	County Name		Well Name		
Da Swamp	-	SHAWANO	ļ	MW-1	•
Facility License, Permit or Monitoring Number	County Code .59	Wis. Unique Well N	umber W250	DNR W	ell ID Number ———
1. Can this well be purged dry? X Yes	□ No	11. Depth to Water	Before Dev	elopmen	t After Development
2. Well development method			a5.5	ft.	ft.
surged with bailer and bailed 4 1	l	well casing)			
surged with bailer and pumped 6 1	_				
surged with block and bailed 4 2	2	Date	b. 12 / 27	/ 2013	$\frac{12}{y} \frac{12}{y} \frac{27}{d} \frac{2013}{dy}$
surged with block and pumped 🔲 62	<u>!</u>		mm d c	y y	y y m m d d y y y
surged with block, bailed and pumped \(\sigma\) 7 0)		02 1	_ □ a.m.	02 : 25 $\stackrel{\square}{ X}$ a.m.
compressed air		Time	c. <u>U</u> 2:1	2 X p.m.	$\frac{02}{}$: $\frac{25}{}$ X p.m.
bailed only X 10		10 0 11 11			
pumped only		12. Sediment in well bottom		inches	inches
pumped slowly			Olean em 4		
Other		13. Water clarity	Clear 🔲 1 Turbid 🗆 1		Clear ☐ 20 Turbid ☐ 25
3. Time spent developing well 10	min.		(Describe)		(Describe)
4. Depth of well (from top of well casisng) 12.7	ft.				
5. Inside diameter of well 2.06	in.				· .
6. Volume of water in filter pack and well					
casing 1.9	gal				
	5 ^{aa.}	Fill in if drilling fluids	s were used an	d well is a	t solid waste facility:
7. Volume of water removed from well 4.5	gal.	- 6			
		14. Total suspended		mg/l	mg/l
8. Volume of water added (if any)		solids			
9. Source of water added		15. COD		mg/l	mg/l
		6. Well developed by	: Name (first, la	st) and Firm	
10. Analysis performed on water added?	□ No	First Name: Joseph	h	Last Name	Ramcheck
(If yes, attach results)		Firm: Endeavor En	vironmental Se	rvices, Inc	•
17. Additional comments on development:					
· -	-				
•					
		·			
Name and Address of Facility Contact/Owner/Responsible Pa	ırty	I hereby certify that	the above info	tmation is	true and correct to the best
First Leland Last VanGheem		of my knowledge.			
Name: Name: Name:		1			
Facility/Firm: Da Swamp, LLC		Signature:	ZUSE		
Street: W2746 Half Mile Road		Print Name: Joseph R	amcheck		
City/State/Zip: Seymour WI 5416	 	Firm: Endeavor	Environmenta	l Services,	Inc.
					The State of the S

State of Wisconsin	
Department of Natural	Resources

Route To:

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98 Watershed/Wastewater Waste Management

Remediation/Revelopment . Ot	her [] _								•	
										of _	
Facility/Project Name	Licen	se/Per	mit/Mo	onitorir	ig Nun	nber	Borin	g Num		#XX 0	
Da Swamp Boring Drilled By: Name of crew chief (first, last) and Firm	Date	Orillin	g Starte	ed	Date I	Orilling	g Com	pleted	Drilli	1W-2	had
First Name: Darrin Last Name:			-					-	1	-	
Firm: Geiss Soil & Samples LLC			$\frac{201}{y}$			$\frac{20}{d}$		<u>y</u> y	<u> </u>		n auger
WI Unique Well No. DNR Well ID No. Well Name VW251	Final		Water		Surfac	e Elev		MCT	Boreh 6.2		ameter
VW251 MW-2 Local Grid Origin □ (estimated: IX) or Boring Location XI	ـ . ـ		Feet N		Local	Grid L	_Feet			13_1	nches
State Plane N, E	L							ı N			ПE
<u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>18</u> , <u>T</u> <u>25</u> N, <u>R</u> <u>18</u> <u>E</u>	Lor						eet 🗆	S		_Feet	<u> </u>
Facility ID County SHAWANO	ounty C 59	ode	Civil	Town/	City/ o	r Villa		laple G	rove		
		 -						Prope		~	
용변 및 및 및 Soil/Rock Description			İ			4)		Topo	100		
		S		٦		Compressive Strength	دو		ا ج <u>د</u>		ats
Each Major Unit		sc	phic	Well Diagram	PID/FID	pre	istur	E E	Plasticity Index	8	D/
Number and Type and Type Blow Could Blow Cou		'n	Graphic Log	Well Diagr	II.	Str	Moisture Content	Liquid Limit	Pla Ind	P 200	RQD/ Comments
S-1 0.0 - 0.5 Gravel		FL									
S-1 10 0.5 - 2.0 Moist, reddish brown sandy lo	oam 🖰	ML-									
S-2 12	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,]						Lab sample
5-2 12 2 5 2.0 - 4.0 Worst, redusir brown sandy to	74111 -	ML-									Late sample
	l				- [
S-1 10	\										
F F Sio sio siosi, sio si siosi, sio si siosi, sio si siosi, sio sio sio sio sio sio sio sio sio sio		CL-N			- 1						
S-3 12 5 5.0 - 6.0 Moist, brown sandy loam	$-\!\!-\!$										
]	ML-									
S-4 24	\]			, j	0.4						Lab sample
S-4 24 6.0 - 8.0 Moist, brown sandy loam	İ	ML-S			l	ł					•
	- 1			J	1	İ					
	- 1	1		- {	- {	ĺ		- 1			
S-5 E ₈ / 8.0 - 14.5 Earth drill	—\			ĺ.		ł			1		
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, I E I]	Ì	1	- 1	Ì	1	1	j	1	ĺ	
]	- 1	į		l		-			ĺ	
		ĺ	- 1	ļ							
]		}]]					
hereby certify that the information on this form is true and correc	et to the	e best	of my	know	ledge						

Signature Firm Endeavor Environmental Services, Inc.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources Route to: Watershed/	Waste Management MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Remediatio	n/Redevelopment Other Tothi 4400-113A Rev. 7-28
Facility/Project Name Local Gri Da Swamp	n/Redevelopment Other Well Name ft. S. ft. W. MW-2
Facility License, Permit or Monitoring No. [Local Grid	Origin (estimated: [X]) or Well Location [X] Wis, Unique Well No. DNR Well ID No. "Long." or VW251
Facility ID St. Plane	ft. N,ft. E. S/C/N Date Well Installe 12 / 20 / 2013
Type of Well Say	ocation of Waste/Source m m d d y y y y y Well Installed By: Name (first, last) and Firm
Well Code 11 / mw 5 17 1/4	or 5 W 1/4 or Sec. 10, 1, 25 N, R, 10 W Downin
Distance from Waste/ Enf. Stds. Location of u Up	of Well Relative to Waste/Source Gov. Lot Number
A. Protective pipe, top elevation ft.	
B. Well casing, top elevation ft.	12 Protective cover nine
C. Land surface elevation ft.	MSL Steel X 0.4
D. Surface seal, bottom ft. MSL or _1	ft. Other □
12. USCS classification of soil near screen:	d. Additional protection?
1	If yes, describe:
SM X SC MLX MH CL C	Bentonite IX 30
Bedrock □	3, Surface scal: Concrete □ 01
13. Sieve analysis performed? Yes X No	Other 🗆 🦭
14. Drilling method used: Rotary 🗆 5 (
Hollow Stem Auger X 4 1	! KXX 620
Other 🗆	. 1 (20) (20)
- CALCA - ACC	SS 804
15. Drilling fluid used: Water □ 0 2 Air □ 0	
Drilling Mud D 0 3 None X 9	b
	cLos/gai mud weight Bentonite situry 🗀 5 1
16. Drilling additives used? ☐ Yes X No	
	e0.75Ft 3 volume added for any of the above
Describe	f. How installed: Tremie 🔲 0 1
17. Source of water (attach analysis, if required):	Tremie pumped □ 02
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Gravity IX 0 8
	6. Bentonite seal: a. Bentonite granules 33
E. Bentonite seal, topft, MSL or _1_	b. □1/4 in. X3/8 in. □1/2 in. Bentonite chips X 3 2
·	
F. Fine sand, top ft. MSL or _ 2.5	7. Fine sand material: Manufacturer, product name & mesh size
	a, Fine sand
G. Filter pack, top ft. MSL or _3	111 1111 1111 1111 1111 1111 1111 1111 1111
77 G	8. Filter pack material: Manufacturer, product name & mesh size
H. Screen joint, top ft. MSL or _ 3	
6 1 mg 12	b. Volume added 6 ft 3
I. Well bottom ft. MSL or _ 13_	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
a 1 cor 14	Flush threaded PVC schedule 80 🗆 24
J. Filter pack, bottom ft. MSL or _ 14	
44.8	10. Screen material: PVC
K. Borehole, bottom ft. MSL or _ 14.5	
()=	Continuous slot 01
L. Borehole, diameter6.25 in.	Other
	b. Manufacturer0.01.
M. O.D. well casing 2.37 in.	c. Slot size: 0.01 in.
	d. Slotted length: $.10_{-}$ ft.
N. I.D. well casing 2.06_ in.	11. Backfill material (below filter pack): None [X 14
	Other 🗆 🌉
I hereby certify that the information on this form is true	and correct to the best of my knowledge.
Signature // Signature	Firm
ELL VICE	Endeavor Environmental Services, Inc.

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waster	water 🔲	Waste Manageme	nt 🔚		
Remediation/Rede	evelopment [X]	Other			
Facility/Project Name	County Name		Well Name		
Da Swamp		SHAWANO		MW-2	
Facility License, Permit or Monitoring Number	County Code .59	Wis. Unique Well	Number VW251	DNR W	ell ID Number
1. Can this well be purged dry?	s 🗆 No	11. Depth to Wate	r		t After Development
2. Well development method		(from top of	a. <u>6.46</u>	ft.	ft.
surged with bailer and bailed 4	1	well casing)			
surged with bailer and pumped 6		_			
surged with block and bailed 4		Date	b. $\frac{12}{11} / \frac{27}{11}$	$\frac{2013}{1}$	$\frac{3}{y} \frac{1}{y} = \frac{12}{m} / \frac{27}{d} / \frac{2013}{y} = \frac{1}{y}$
surged with block and pumped \Box 6 surged with block, bailed and pumped \Box 7					
		Time	. 03 . 2	5 V nm	03 : 31 \times p.m.
compressed air 2 bailed only X 1		Timo	·	_ д рап.	
pumped only		12. Sediment in wel	1	inches	inches
pumped slowly		bottom			
Other		13. Water clarity	Clear 🔲 1 Turbid 🗆 1		Clear □ 20 Turbid □ 25
3. Time spent developing well 6	min.		(Describe)		(Describe)
4. Depth of well (from top of well casisng)	ft.				
5. Inside diameter of well 2.06	in.				
6. Volume of water in filter pack and well casing	gal.				
7. Volume of water removed from well _3	İ	Fill in if drilling flui	ds were used ar	id well is a	at solid waste facility:
8. Volume of water added (if any)		14. Total suspended solids		mg/l	mg/l
9. Source of water added		15. COD		mg/l	mg/l
10 4 1 1 6 1 1 10 2		6. Well developed b	-		
10. Analysis performed on water added? (If yes, attach results)	□ No	First Name: Jose	plı	Last Name	Ramcheck
(11 Jos, minori rosulo)		Firm: Endeavor E.	nvironmental Se	ervices. Inc	
7. Additional comments on development:		Tilli.			
ame and Address of Facility Contact/Owner/Responsible P	arty	I hereby certify tha	t the above info	rmation is	true and correct to the best
rst Leland Last VanGheem Ame:		of my knowledge.			and onlock to me bost
acility/Firm: Da Swamp, LLC	s	Signature:	124		
reet: W2746 Half Mile Road	F	Print Name: Joseph l	Ramcheck		
ity/State/Zip: Seymour WI 541			or Environment	al Services,	Inc.
** * * * * * * * * * * * * * * * * * *					

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other Company Other Remediation/Revelopment Other Remediation/Revelopment Remediation/Reme

					Kem	legiation	v Kevelopment	Omer [ا						Dage	; <u> </u>	of	
Facil	ity/Pro	ject Na	ıme					Lice	nse/Pe	rmit/M	onitori	ng Nur	nber	Borin	g Num		01	
	Swam														1W-3			
Bori	ng Dril Name:	led By	Nam		ew chie Name:	ef (first,	last) and Firm			ig Star		Date Drilling Completed Drilling Method				hod		
			& Samj					$\frac{12}{m}$	$\left[\frac{12}{m}, \frac{20}{d}, \frac{2013}{y}, \frac{y}{y}\right]$					$\left \frac{12}{m} / \frac{20}{d} / \frac{2013}{y} \frac{y}{y} \right $ hollow stem				n auger
WIL	niaue	Well N			Well II	No.	Well Name	Final	š I								orehole Diameter	
								Feet MSL					Feet MSL 6.25 i				nches	
State	State Plane N, E							Lat				i av a				ПE		
SW	<u>SW</u> 1/4 of <u>SW</u> 1/4 of Section <u>18</u> , <u>T</u> <u>25</u> N, <u>R</u> <u>18</u> E						Lo				Feet S _ City/ or Village				□ W			
Facil	ity ID				County		WANO	County 6	Code	Civil	Town/	City/ o	r Villa		Iaple G	rove		
Sar	nple		ଞ୍ଚି		<u></u>			!	1			ĺ .		Soil	Prope	rties		
	Length Att. & Recovered (in)) <u>‡</u>	Depth in Feet (Below ground surface)				ck Description		İ		ł		ဎ					
7 G	h At	l g	in F		A		ogic Origin For Major Unit		S	Jo	=	自	essi	왉		ity		ents
Number and Type	ig so	Blow Counts	elow g			Laci	Wajor Offic		SC	Graphic 1.08	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	17 %	m	_ ∆e				1 (1) (1) (1)		<u> </u>	Grap]	20	<u> </u>	ටුන	ΣÜ	111	모면	P	ಷರ
S-1			E	0.0	- 13.5	feet be	drill to a depth of 13 low ground surface	.5										
			2 4 6 8 10 12						l									
	I	•																
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hereb	v certi	fy tha	t the in	nform:	ation or	n this fo	orm is true and cor	rect to th	e best	of my	know	ledge						

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information,

Firm

including where the completed form should be sent.

Signature

	Watershed/Wastewater Remediation/Redevelopment		gement	MONITORING WE Form 4400-113A	LL CONSTRU Rev. 7-98	CTION
Facility/Project Name Da Swamp	Remediation/Redevelopment Local Grid Location of Wellft.	HÃ:	ft. 🗆 E.	Well Name MW-3		
Facility License, Permit or Monitoring No.	Local Grid Origin (csti	mated: [X) or V	Well Location (X	Wis. Unique Well NoVW252	DNR Well II) No.
Facility ID	St. Plane ft.	N,		Date Well Installe 12	/_20_/_2013	3
Type of Well Well Code 11 / mw	Section Location of Waste/S SW_1/4 of SW_1/4 of Se	c. 18, T. 25 1		Well Installed By: N	ame (first, last) a	and Firm
Distance from Waste/ Enf. Stds. Source ft. Apply	Location of Well Relative to u Upgradient s	☐ Sidegradient	Gov. Lot Number	Geiss Soil & Samp	les LLC	
A. Protective pipe, top elevation	ft. MSL	ا. سب	Cap and lock?		☐ Yes X	No
B. Well casing, top elevation	ft. MSL	1 1 1237	Protective cover p a. Inside diameter:	•	8	_ in.
C. Land surface elevation	ft. MSL		b. Length:			_ ft.
D. Surface seal, bottom ft. MS	WARRENCE OF THE PARTY OF THE PA	1000000	c. Material:		Steel (X	
					Other 🗆	422,227
12. USCS classification of soil near screen GP GM GC GW S SM SC ML MH C	w 🗆 sp 🗆 🗎		 d. Additional prot If yes, describe 	ection?	☐ Yes ☐	
Bedrock		3. 8	Surface scal:		Bentonite 🗆	
13. Sieve analysis performed?	es IX No				Concrete X	2000000
"	ary □ 5 0	4.1	Material between	well casing and protect	Other 🗆	
Hollow Stem Au	* 1 ¥000			,,,,,,,,,,	Bentonite IX	3 0
	her 🗆 🎆	_			Other 🗆	
	_	5. /	Annular space seal	: a. Granular/Chipp	ped Bentonite IX	
1	Air 🗆 01	Ъ.	Lbs/gal mi	ud weight Bentonit	e-sand slurry 🗆	35
Drilling Mud □ 0 3 N	one IX 99		Lbs/gal mi	ud weight Ben	tonite slurry	3 1
16. Drilling additives used?	es IX No			te Bentonite-		50
_		K887		volume added for any	of the above	0.1
Describe		f.	How installed:	T_{res}	mie pumped	~
17. Source of water (attach analysis, if requi	red):			110	Gravity X	~ ~
		6. E	Bentonite seal:	a. Benton	nite granules	33
		K CXX		/8 in. □1/2 in. Be		3 2
E. Bentonite seal, top ft. MSL	or _1ft.	/ c		·	-	***
F. Fine sand, top ft. MSL	or _ 2.5 ft.	MAN A	ine sand material: Fine sand	Manufacturer, produ	et name & mesh	
G. Filter pack, top ft. MSL	or _3 ft.	(3.4)	, Volume added _	0.5 fi	3	
H. Screen joint, top ft. MSL	or 3 ft.	8. F		l: Manufacturer, produ	ict name & mes	
			Volume added_	4.5 f	. 3	
I. Well bottom ft. MSL	or _13ft.		Vell casing:	Flush threaded PVC so Flush threaded PVC so		23 24
J. Filter pack, bottom ft. MSL	or _13.5_ ft.				Other 🗆	2 T
K. Borehole, bottom ft. MSL	or _ 13.5 ft.	7777	creen material: P Screen type:		Factory cut [X inuous slot \square	11
L. Borehole, diameter _ 6.25_ in.					Other 🗆	01
M. O.D. well casing _ 2.37_ in.) c.	Manufacturer Slot size:			1 in.
N. I.D. well casing _ 2.06_ in.		\ d. 11. B:	Slotted length: ackfill material (b	elow filter pack):	.10_ None (X Other □	14
I hereby certify that the information on this fo	rm is true and correct to the	pest of my knowled	dge.		Outer 11	<u> </u>
Signature	Firm	and or my known to			***************************************	
1118/10		r Environmental S	Services, Inc.			

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Remediation/Redevelopment X Other	Route to: Watershed/Wastewat	ter 🔲	Waste Management			
SHAWANO MW-3 Facility License, Permit or Monktoring Number County Code 59 Wis. Unique Well Number VW252 DNR Well ID Number DNR Well ID Number VW252 DNR Well ID Number DNR Well ID Number VW252 DNR Well ID Number DNR Well ID Number VW252 DNR Well ID Number	Remediation/Redeve	lopment [X]	Other			
County Code 59 Wis. Unique Well Number Wu252 DNR Well ID Number Wu252 DNR Well ID Number Wu252 DNR Well ID Number Wu252 Well development method Surged with bailer and bailed 41 Surged with bailer and pumped 61 Surged with block and bailed 42 Surged with block and pumped 62 Surged with block had bailed and pumped 70 Compressed air 20 Surged with block had bailed 51 Date b. 12 / 27 / 2013 12 / 27 / 2013 Mm m d d y y y y m m d d d y y y y m m d d d y y y y	Facility/Project Name Co	ounty Name		Well Name		
S9	•	i	SHAWANO		MW-3	
2. Well development method surged with bailer and bailed surged with block and bailed surged with block and pumped surged with block and pumped compressed air bailed only pumped only pumped slowly Other 3. Time spent developing well 4. Depth of well (from top of well casisng) 5. Inside diameter of well 6. Volume of water added (if any) 7. Volume of water added (if any) 9. Source of water added 10. Analysis performed on water added? (if yes, attach results) 11. Depth to Water (from top of well (from top of well casisng) 12. Time (from top of water added) 12. Depth to Water (from top of well casing) 12. Depth to Water (from top of well casing) 12. Depth to Water (from top of well casing) 12. Depth to Water (from top of well casing) 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 12. Date 13. Date 14. Date 15. Date 15. Date 16. Date 16. Date 16. Date 17. Date 18. Date 18. Date 19. Date 10.	Facility License, Permit or Monitoring Number Co	-			DNR Well	ID Number — — —
2. Well development method surged with bailer and bailed 41 41 5 5 5 5 5 5 5 5 5	1. Can this well be purged dry?	X No	11. Depth to Water	Before Dev	elopment	After Development
surged with bailer and pumped 61 surged with block and bailed 42 b.	_		(from top of	a. <u>6.5</u>	ft.	ft.
surged with block and bailed surged with block and pumped 62 62 50 62 62 62 63 64 65 65 65 65 65 65 65	-		,, on omnib)			
surged with block and pumped surged with block, bailed and pumped compressed air			Data	12 . 27	2012	10 . 27 . 2012
surged with block, bailed and pumped compressed air			Date	b. $\frac{12}{m} / \frac{2}{d} / \frac{1}{d}$	/ 2013	$\frac{12}{m} \frac{2}{m} \frac{12}{d} \frac{2}{d} \frac{1}{2} \frac{2013}{m}$
compressed air bailed only pumped only pumped slowly Other						
bailed only pumped only pumped only pumped only pumped only pumped slowly			Time	. 02 . 30	$\bigcap_{\mathbf{V},\mathbf{n},\mathbf{m}}\mathbf{a.m.}$	02 · 45 N nm
pumped only pumped slowly Other 5 1 5 0 5			i imic (3. <u></u>	_ A p.m.	
bottom 13. Water clarity Clear 10 Clear 20 Turbid 25 Clear 15 Turbid 25 Clear 15 Turbid 25 Clear 15 Turbid 25 Clear 20 Turbid 25 Clear 20 Turbid 25 Clear 20 Turbid 25 Clear 20 Clear			 12 Sediment in well		inchae	inchee
Other					menes	
3. Time spent developing well 15 min. 4. Depth of well (from top of well casisng) 12.7 ft. 5. Inside diameter of well 2.06 in. 6. Volume of water in filter pack and well casing 1.6 gal. 7. Volume of water removed from well 10 gal. 8. Volume of water added (if any) gal. 9. Source of water added 15 Turbid 15 Turbid 12 5 (Describe) (Describe) 10. Analysis performed on water added? [Yes No (If yes, attach results)] 10. Analysis performed on water added? [Yes No (If yes, attach results)]				Clear C 1	o C	lear D 20
3. Time spent developing well			15. Water clarity			
4. Depth of well (from top of well casisng) 2.06 in. 6. Volume of water in filter pack and well casing 1.6 gal. 7. Volume of water removed from well 8. Volume of water added (if any) 9. Source of water added 10. Analysis performed on water added? 11. Yes No (If yes, attach results) 12.7 ft. 13. Source of water in filter pack and well in incomplete in inc	3. Time spent developing well 15					
5. Inside diameter of well 2.06 in. 6. Volume of water in filter pack and well casing 1.6 gal. 7. Volume of water removed from well 8. Volume of water added (if any) 9. Source of water added 15. COD 16. Well developed by: Name (first, last) and Firm 10. Analysis performed on water added? (If yes, attach results) 17. Inside diameter of well 18. Volume of water in filter pack and well case and well is at solid waste facility: 19. Source of water added 10. Manalysis performed on water added? 11. Total suspended mag/l mag/l 12. COD mag/l mg/l 13. Well developed by: Name (first, last) and Firm 14. Total suspended mag/l 15. COD mag/l 16. Well developed by: Name (first, last) and Firm 17. First Name: Joseph Last Name: Ramcheck 18. Firm: Endeavor Environmental Services, Inc.		min.	i:	(150501100)	(2	0501100)
5. Inside diameter of well 6. Volume of water in filter pack and well casing 1.6 gal. 7. Volume of water removed from well 8. Volume of water added (if any) 9. Source of water added 10 gal. 14. Total suspended mg/l mg/l mg/l solids 15. COD mg/l mg/l 16. Well developed by: Name (first, last) and Firm First Name: Joseph Last Name: Ramcheck Firm: Endeavor Environmental Services, Inc.	4. Depth of well (from top of well casisng) 12.7	_ ft.				
1.6	5. Inside diameter of well	_ in.				
7. Volume of water removed from well gal. 8. Volume of water added (if any) gal. 9. Source of water added gal. 10. Analysis performed on water added?	6. Volume of water in filter pack and well casing 1.6	_ gal.				
8. Volume of water added (if any) 9. Source of water added 15. COD 16. Well developed by: Name (first, last) and Firm 10. Analysis performed on water added? (If yes, attach results) 14. Total suspended mg/l solids 15. COD mg/l 16. Well developed by: Name (first, last) and Firm First Name: Joseph Last Name: Ramcheck Firm: Endeavor Environmental Services, Inc.	·		Fill in if drilling fluids	were used an	d well is at so	olid waste facility:
9. Source of water added					mg/l _	mg/l
16. Well developed by: Name (first, last) and Firm 10. Analysis performed on water added?		1				
10. Analysis performed on water added?	9. Source of water added		15. COD		mg/l _	mg/l
(If yes, attach results) Firm: Endeavor Environmental Services, Inc.			16. Well developed by:			
Firm: Endeavor Environmental Services, Inc.		□ No	First Name: Joseph	l	Last Name: I	Ramcheck
	(If yes, attach results)		Firm: Endeavor Env	ironmental Se	rvices, Inc.	
*	17. Additional comments on development:	<u>,</u> .				
	•			÷		
					•	
Name and Address of Facility Contact/Owner/Responsible Party I hereby certify that the above information is true and correct to the best	· · · · · · · · · · · · · · · · · · ·	ty	I hereby certify that the	he above info	mation is ten	e and correct to the hest
rist Leland Last VanChaem of my knowledge	Leigna Vantahaam	.	• • • • • • • • • • • • • • • • • • • •			
Name: Name: Vandieth Or My Knowledge.	Name:Name:			111	<i></i>	
Facility/Firm: Da Swamp, LLC Signature:	Pacility/Firm: Da Swamp, LLC		Signature:	ZH		
Street: W2746 Half Mile Road Print Name: Joseph Ramcheck	Street: W2746 Half Mile Road	r	Print Name: Joseph Ra	mcheck		

Endeavor Environmental Services, Inc.

54165-

Firm:

WI

City/State/Zip:

Seymour

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rot	ite To:			Wastewater Wastewater			_	t 🔲									
									_								Page	. 1	of_	
	ity/Pro		ame]	Licen	se/Per	mit/N	/Ioni	torii	ng Nur	nber	Borin	g Num	ber		
Bori	Swam	ed By	: Nam			first,	last) and Firm		Date I	Orillin	g Sta	rted		Date	Drilling	g Com	pleted		AW-4	thod
	Name: I				l Name:			1.	$\frac{12}{m}$	$\frac{20}{d}$./_20	13 v v	v	$\frac{12}{m}$	$\frac{20}{d}$	$\frac{201}{\sqrt{y}}$	$\frac{3}{y} \overline{y}$	holle	ow ster	n auger
WIL	nique W253	Well N		DNR	Well ID N	lo.	Well Name MW-4			Static		r Lev	vel		ce Elev	ation	MSL	Borel		ameter nches
Loca		Drigin	(e				oring Location X		L	at	0	1	_	Local	Grid L	ocatio				□ E
		SW	_ 1/4 o	f Section		T_2	25 N, R 18 E		Lor		0	1	11			eet 🗆	-		_ Fee	i W
Facil	ity ID				County	SHA	WANO	Cou	ntv C 59_	ode	Civi	l To	wn/	City/ o	r Villa		laple G	rove		
Sar	nple		(e)		<u> </u>							Τ				Soil	Prope	rties		
	d (ii)	ınts	Feet				ck Description logic Origin For				l			i	ive					S
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)				Major Unit			SCS	Graphic		Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
	R L	Blo	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_						n	<u>E</u> .	<u>ğ</u> 🕺	Dig	II.	Str	కొర్	<u> </u>	Pla Ind	P2	&2
S-1 S-1	14		E	$\frac{0.0}{0.5}$		Trave Ioist,	<u>l</u> reddish brown sand	y loar	 m	FL ML-	<u>.</u>									
S-2	16		E_2	72.0	- 4.0 N	loist,	reddish brown sand	y loai	m¯\	ML-										Lab sample
S-3	14		E ₄	4.0	- 6.0 M	Ioist,	reddish brown sand	y loar	n \	ML-				0.4						·
S-4	10		6	√ 6.0	- 7.5 N	Ioist,	reddish brown sand	y loar	n \	İ				0.9						
S-4 S-5	4		E ₈	$\frac{7.5}{8.0}$	- 8.0 M - 13.5 E	loist,	fine-medium gray sa drill	nd	\supset	ML- SP				0.9						
3-3			Ē	۲ °۰۰	- 13.3 E	artii	ur m						1	-					i	
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		fy tha	t the i	nform	ation on the	his fo	orm is true and cor			e best	of m	y kr	iow	ledge	<u>. </u>					
Signatu	16	The state of the s	Z	1				Fir	m	Endea	vor E	nvir	onm	ental S	Service	s, Inc.				

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Netural Resources Route to:	Watershed/Wastewater	Waste Man	agement [MONITORING WEL Form 4400-113A	L CONSTRU Rev. 7-98	CTIO
Facility/Project Name Da Swamp	Remediation/Redevelopme	ont Other VellN.	ft. 🖂 E.	Well Name MW-4		
Facility License, Permit or Monitoring No.	Local Grid Origin	estimated: (X) or	Well Location X	Wis. Unique Well NoVW253	DNR Well II	D Na.
Facility ID	St. Plano	_ ft. N,		Date Well Installe 12		3
Type of Well Well Code 11 / mw	Section Location of Wast SW 1/4 of SW 1/4 of Location of Well Relative	Sec. 18, T. 25	N, R. 18 W	Weil Installed By: Nat Darrin	me (first, last) a	and Firn
Distance from Waste/ Enf. Stds. Source ft. Apply	u ☐ Upgradient d ☐ Downgradient	s Sidegradient	Gov. Lot Indinber	Geiss Soil & Sample	s LLC	
A. Protective pipe, top elevation	ft. MSL		. Cap and lock?		☐ Yes X	; No
B. Well casing, top elevation	ft. MSL		. Protective cover p a. Inside diameter	•		_ in.
C. Land surface elevation	ft. MSL	~	b. Length:			_ ft.
D. Surface seal, bottom ft. MS	Lor 1 ft.		c. Material:		Steel X Other □	
12. USCS classification of soil near screen	X2437032VV		d. Additional prot	ection?	☐ Yes ☐	400,000
GP□ GM□ GC□ GW□ S	w 🗆 SP 🗆 🔪	1 1/	-	t		
SM X SC □ ML X MH □ C Bedrock □	r 🗆 CH 🗆 📗		. Surface scal:		Bentonite 🗆	
	es IX No				Concrete X	44.444
, ,	ary 🗆 5 0	`4	Material between	well casing and protective	Other 🗆	- 22
Hollow Stem Au	* .		. William Down Boll	wan paoning and proteon	Bentonite IX	3 0
	her 🗆 🏬				Other 🗆	
45 Dellis of the set Witness ELOS		5.	. Annular space sea	a. Granular/Chippe		
	Air □ 01 one X 99	₩ ₩ b	Lbs/gal m	ud weight Bentonite	-sand slurry 🗆	3.5
	SHO IZE > >			ud weight Bento ie Bentonite-co		
16. Drilling additives used? ☐ Y	es IX No			volume added for any o		20
Day 7		f.		· · · · · · · · · · · · · · · · · · ·	Tremie 🗆	0 1
Describe			•	Trem	ic pumped 🛘	02
in boules of water (attach analysis, if requi	.euj.			D	Gravity X	0.0
		EDGOA KLOVA	Bentonite seal:	a. Bernom 8 in. □1/2 in. Ben	te granules	
E. Bentonite seal, topft. MSL	or _ 1 ft.	\$0004 B668 /		Ben Dizm. Ben	Other \Box	
F. Fine sand, top ft. MSL	or _ 2.5 ft.	MAN MAN /		Manufacturer, produc	t name & mesl	
G. Filter pack, top ft. MSL	or _3 ft.		a. Fine sand b. Volume added _	0.5 ft ³		22
- ·		8.	Filter pack materia	l: Manufacturer, produc		h size
H. Screen joint, top ft. MSL	or _3 ft.		a. Coarse sand b. Volume added	4 ft ³	, 	
I. Well bottom ft. MSL	or _13 ft.	B . L. T	Well casing:	Flush threaded PVC sch Flush threaded PVC sch	•	23 24
J. Filter pack, bottom ft. MSL	or _13.5 _ ft.				Other 🗆	
K. Borehole, bottom ft. MSL	or _ 13.5 ft.		Screen material: P	F	actory cut [X nuous slot	11
L. Borehole, diameter _ 6.25_ in.	<u></u>			W-1	Other 🗆	0 1
M. O.D. well casing _ 2.37_ in.		b c d				1_in.
N. I.D. well casing 2.06 in.		,	Backfill material (b	elow filter pack):	None IX Other □	
I hereby certify that the information on this fo	rm is true and correct to the	he best of my knowl	edge.			<u> </u>
Signature	Firm					
in all	Ender	avor Environmental	Services, Inc.			

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waste		Waste Managemen	it	
Remediation/Red	evelopment $[X]$	Other		
Facility/Project Name	County Name		Well Name	
Da Swamp		SHAWANO	MW-	
Facility License, Permit or Monitoring Number	County Code .59	Wis. Unique Well N	W253 DNR	Well ID Number ———
1. Can this well be purged dry?	es IX No	11. Depth to Water		ent After Development
2. Well development method		(from top of	a 5.67 ft	ft.
	l 1	well casing)	***	
-	51			
	2	Date	12 / 27 / 20	13 12 / 27 / 2013
	52		$\frac{1}{m}\frac{1}{m}\frac{1}{d}\frac{1}{d}\frac{1}{y}\frac{1}{y}$	$\frac{13}{y} \frac{1}{y} \frac{12}{m} \frac{27}{d} \frac{2013}{y} \frac{2013}{y}$
	0			• • • • •
	2.0	Time	c. 03 : $15 \times p.r$	n. 03 : 25 \times \times \times \times \times \times \times \times \times \times
bailed only X 1			-	· •
pumped only	1	12. Sediment in well	inche	es inches
pumped slowly	0	bottom		
Other		13. Water clarity	Clear ☐ 10 Turbid ☐ 15	Clear ☐ 20 Turbid ☐ 25
3. Time spent developing well 10	min.		(Describe)	(Describe)
4. Depth of well (from top of well casisng) 13	ft.			
5. Inside diameter of well 2.06	in.			
			Marco - Control of the Control of th	
6. Volume of water in filter pack and well casing 2	gal.			
	gai.	 Fill in if drilling fluid	te were used and well is	s at solid waste facility:
7. Volume of water removed from well 10_{-}	gal.	I in in in drining make	is word and won i	s at sond waste facility.
8. Volume of water added (if any)	-	14. Total suspended solids	mg/	l mg/l
9. Source of water added		15. COD	mg/	l mg/l
		_	y: Name (first, last) and Fi	
 Analysis performed on water added? (If yes, attach results) 	:□ No	First Name: Josep	2007110	
		Firm: Endeavor En	vironmental Services, I	nc.
7. Additional comments on development:				
Name and Address of Facility Contact/Owner/Responsible	Party	I hereby certify that	the above information	is true and correct to the best
irst Leland Last VanGheem	ļ	of my knowledge.		
Iyaliic.		/	1200	
acility/Firm: Da Swamp, LLC		Signature:	III.	
treet: W2746 Half Mile Road		Print Name: Joseph R	Lamcheck	-
ity/State/Zip: Seymour WI 54	165-	Firm: Endeavo	r Environmental Servic	es, Inc.

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rou	te To:		Vastewater W Revelopment			gemen	ıt 🔲								
						Record		_							Page	<u> l</u>	of	
	ity/Proj		ıme	*				Licer	ise/Per	mit/M	onitori	ng Nur	nber	Borin	g Num	ber		
Borin		ed By			ew chief (first,	last) and Firm		Date Drilling Started Date Drilling Com						pleted	MW-5 ed Drilling Method			
	Name: J		& Samp		Name:			- 1				$\frac{12}{m}$	$\frac{20}{d}$	$\frac{201}{\sqrt{y}}$	$\frac{3}{y} \overline{y}$	holle	w ster	n auger
WIU	niaue \	Well			Well ID No.	Well Name				Water	Level		ce Elev	/ation				ameter
	W254 Grid C		 (es	timate	d: (x) or Box	MW-5 ring Location xI		<u> </u>		_Feet N		Local	Grid I		MSL n	6.2	<u> 25 i</u>	nches
State	Plane_				N,	E 5 N, R 18 E		Lo	_at ng	0 '					I N		Feet	□ E t□ W
SW 1/4 of SW 1/4 of Section 18 , T 25 N, R 18 E Long O , " Feet D S Feet D W Facility ID County Code SHAWANO Civil Town/City/ or Village Maple Grove																		
San																		
ber ype	Length Att. & Recovered (in)	Blow Counts	in F			ogic Origin For Major Unit			CS	ည္အ	u a	Ð	ressi	a ii	-g_	city		/ nents
Number and Type	Length Att. & Recovered (in)	Blow	Dept]						US	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1			F	0.0	- 13.5 Earth of	drill to a depth of 1. low ground surface	3,5	•										
			2 2 4 4 6 8 8		icet bei	iow ground surface												
			E															
			E⁴ l															
,			E_6														İ	-
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		fy tha	t the ir	form	ation on this fo	orm is true and co	rrec	t to th	e best	of my	know	ledge						
Signatu	re	1	/ \	7/			F	irm	Endon	vor En	vironm	ontal (Service	s Inc				

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

	Watershed/Wastewater [] Remediation/Redevelopment			MONITORING WELI Form 4400-113A	L CONSTRU Rov. 7-98	CTIO
Facility/Project Name Da Swamp	Remediation/Redevelopment Local Grid Location of Welft.	I Dr.	ft. 🗆 E.	Well Name MW-5		***
Facility License, Permit or Monitoring No.	Local Grid Origin (est	imated: (X) or	Well Location [X	Wis. Unique Well NoVW254	DNR Well II) Na.
Facility ID	St. Planeft	N,		Date Well Installe 12_/	_20_/_2013	3
Type of Well Well Code	Section Location of Waste/S SW_1/4 of SW_1/4 of So Location of Well Relative to	ec. 18, T. 25	N, R, 18 W	n m	<u>d d y y</u>	y y
Distance from Waste/ Enf. Stds. Sourceft. Apply _	u Downgradient n	☐ Sidegradient		Geiss Soil & Samples	LLC	
A. Protective pipe, top elevation		¹	. Cap and lock?		☐ Yes X	No
B. Well casing, top elevation	ft. MSL		. Protective cover p a. Inside diameter	-	8	in.
C. Land surface elevation	ft. MSL		b. Length:	•	1	_ ft.
D. Surface seal, bottom ft. MS	The same of a		c. Material:		Steel X	-
12. USCS classification of soil near screen	\$2500xxxxx	1.10	d. Additional pro	nation?	Other 🗆	400,000
	W 🗆 SP 🗆 🗎		-	51		-
Bedrock □		3.	, Surface scal:		Bentonite D Concrete X	
13. Sieve analysis performed?	es IX No				Other 🗆	*Accessor
14. Drilling method used: Rota	* 1 88	4.	. Material between	well casing and protectiv	• •	
Hollow Stem Au	ger IX 4 1				Bentonite IX	
	ler 🗆 💥 🙀		A	l: a. Granular/Chipped	Other Rentonite X	.544.444.
15. Drilling fluid used: Water □ 0 2	Air 🗆 01	3	Annular space sea	ud weight Bentonite-		
Drilling Mud □ 0 3 N	one IX 99			ud weight Bento		
16. Drilling additives used? ☐ Y	es IX No	1 🔯 a	% Bentoni	te Bentonite-ce	ment grout 🗆	50
		4 KXXI -		volume added for any of	f the above Tremie	0.1
Describe		f.	How installed:	Tremi	ie pumped 🗆	* -
17. Source of water (attach analysis, if require	red):			110112	Gravity X	~ -
		NOON .	Bentonite seal:		e granules 🔲	33
	1 0	, ,	b. □1/4 in. X3	/8 in. □ 1/2 in. Bento		
E. Bentonite seal, topft, MSL	\		C	. 14 . 6	Other 🗆	1771-776
F. Fine sand, top ft. MSL	or _ 2.5 ft.	10001	a, Fine sand	: Manufacturer, product	name & mesi	1 8126
G. Filter pack, top	or _3 ft.	1 1 1 1 1 1	b. Volume added			
H. Screen joint, top ft. MSL	or _3 ft.		Coarse sand	l: Manufacturer, product		h size
I. Well bottom	or _ 13 ft.		•	Flush threaded PVC school	edule 40 [X	23
J. Filter pack, bottomft. MSL	or _13.5 _ ft.			Flush threaded PVC scho	edule 80 🗆 Other 🗖	24
K. Borehole, bottom ft. MSL	or _ 13.5ft.		Screen material: P . Screen type:	Fa		1 1
L. Borehole, diameter6.25 in.					uous slot Other	01
M. O.D. well casing _ 2.37_ in.		\ c				1 in.
N. I.D. well casing 2.06 in,		\ d	, Slotted length: Backfill material (b	pelow filter pack):	None IX	
I hereby certify that the information on this fo	orm is true and correct to the	best of my knowl-	edge.			man.
Signature	Firm		- T			
111 211	Endeav	or Environmental	Services, Inc.			

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waster		Waste Managemen	t	
Remediation/Rede Facility/Project Name	County Name	Other	Well Name	
Da Swamp		SHAWANO	MW-	5
Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well N	lumber DNR	Well ID Number
	.59		W254	
1. Can this well be purged dry?	s X No	11. Depth to Water	Before Developme	ent After Development
2. Well development method		(from top of	a. 6.47 ft.	ft.
surged with bailer and bailed 4	. 1	well casing)		
surged with bailer and pumped 6	1			
surged with block and bailed 4	2	Date	h 12 / 27 / 20	$\frac{13}{y} \frac{1}{y} \frac{12}{m} \frac{27}{d} \frac{2013}{y}$
surged with block and pumped 6	2		$\frac{m}{m}$ $\frac{d}{d}$ $\frac{d}{d}$ $\frac{y}{y}$	$\frac{\overline{y}}{\overline{y}}$ $\frac{\overline{y}}{\overline{m}}$ $\frac{\overline{m}}{\overline{d}}$ $\frac{\overline{d}}{\overline{d}}$ $\frac{\overline{y}}{\overline{y}}$ $\frac{\overline{y}}{\overline{y}}$
surged with block, bailed and pumped 7	0		о.4 па.л	п. од со ∏а.т.
compressed air		Time	c. $\frac{04}{18} : 18 \times p.r$	in. $\underline{04}$: $\underline{39}$ X p.m.
bailed only X 1	0			
pumped only	1	12. Sediment in well	inche	es inches
pumped slowly	0	bottom		
Other		13. Water clarity	Clear □ 10 Turbid □ 15	Clear □ 20 Turbid □ 25
3. Time spent developing well 21	min.		(Describe)	(Describe)
4. Depth of well (from top of well casisng) $\frac{13.4}{}$	ft.			
5. Inside diameter of well 2.06	in.			
5. Volume of water in filter pack and well				
casing 1.9	gal.			
7. Volume of water removed from well	gal.	Fill in if drilling fluid	s were used and well is	s at solid waste facility:
B. Volume of water added (if any)	gal.	14. Total suspended solids	mg/	l mg/l
9. Source of water added		15. COD	mg/	l mg/l
0. Analysis performed on water added?		 Well developed by First Name: Josep 	/: Name (first, last) and Fi	rm me: Ramcheck
(If yes, attach results)	□ 140			
7. Additional comments on development:		Firm: Endeavor En	vironmental Services, I	nc.
7. Additional comments on development:				
·				
			•	
				•
ame and Address of Facility Contact/Owner/Responsible I	Donte: I		•	
rst Leland Last VanGheem	rarty	I hereby certify that of my knowledge.	the above information	is true and correct to the best
cility/Firm: Da Swamp, LLC		Signature:	M	
reet: W2746 Half Mile Road	,	Print Name: Joseph R	amcheck	
O. NY.V			r Environmental Servic	es. Inc.
ity/State/Zip: Seymour WI 541	103-	rum: Endeavo	Anti Gillichtat Del Vic	

	Watershed/Wastew Remediation/Rede		~ .	nagement [MONITORING WI Form 4400-113A	ELL CONSTRUC Rev. 7-98	CTION
Facility/Project Name Da Swamp	Remediation/Rede Local Grid Locat	ion of Well	N.	ft. 🗆 E.	Well Name MW-	10	
Facility License, Permit or Monitoring No.	Local Grid Origin	(estima	ted: (X) or	Well Location (X	Wis. Unique Well N	o. DNR Well ID	No.
Facility ID	7	ft. N,	·	ft. E. S/C/N	Date Well Installe	1_/_31_/_2014 m_d_d_y_y	4
Type of Well Well Code 11 mw	NW 1/4 of NV Location of Well	V 1/4 of Sec	<u>19</u> .T. <u>25</u>		Weil Installed By: I	Name (first, last) a Kapugi	nd Firm
Distance from Waste/ Enf. Stds. Source ft. Apply	u Upgradien d Downgrad	t s 🗆	Sidegradient	Gov. Lot Number	On-site Environm	iental Services, In	1c.
A. Protective pipe, top elevation	ft. MSL			. Cap and lock?		☐ Yes X	No
B. Well casing, top elevation	ft. MSL -			Protective cover p a. Inside diameter	•		_ in.
C. Land surface elevation	ft. MSL		-	b. Length:		3	_
D. Surface seal, bottom ft. MS	Lor _2 ft.			c. Material:		Steel X Other \Box	
12. USCS classification of soil near screen			CANCES	d. Additional prot	ection?	☐ Yes ☐	420,000
	W D SP D	1	1	If yes, describe			
SM X SC □ ML X MH □ C	L D CH D	\		S. Surface scal:		Bentonite X	30
	es IX No			, barrado dear.		Concrete 🗆	******
_	ary 50	₩.	``	Matarial hatman	well casing and protect	Other 🗆	
Hollow Stem Au	•			. Material Delween	wen cashig and protes	Bentonite IX	30
	her 🗆 🦾					Other 🗆	
			5	. Annular space sea		pped Bentonite X	3 3
	Air 01				ud weight Benton		
Diming Marc [1 0 3 N	one IX 99				ud weight Be		3 1
16. Drilling additives used?	es IX No		₩		te Bentonite volume added for any		50
				How installed:	Vizinie zaded in an	Tremie	0 1
Describe			₩ '	, HOW MISSIEUCH	Tre	emie pumped 🔲	02
17. Source of water (attach analysis, if requi	red):		₩			Gravity IX	0.8
			6	Bentonite seal:		onite granules	3 3
E. Bentonite seal, topft. MSL	or ft.		/		/8 in. □1/2 in. B	•	32
F. Fine sand, top ft. MSL	or _ 2 ft. \		7.	Fine sand materials	Manufacturer, prod	luet name & mesh	ı size
G. Filter pack, top ft. MSL	or _ 2.5 ft.>			b. Volume added_	0.5	ft ³	44
H. Screen joint, top ft. MSL	or _ 2.5 ft.			a. Coarse sand	1: Manufacturer, proc		h size
I. Well bottom	or _ 12.5 ft.\				Flush threaded PVC		23
J. Filter pack, bottomft. MSL	or _ 12.5_ ft.~			· · · · · · · · · · · · · · · · · · ·	Flush threaded PVC:	schedule 80 🗆 Other 🗆	24
K. Borehole, bottom ft. MSL	or _ 12.5 ft.~		3 4	Screen material: P		Factory cut [X	11
L. Borehole, diameter 6.25_ in.			3			ntinuous slot Other	01
M. O.D. well casing 2.37 in.			/ (Manufacturer _ Slot size: Slotted length: 		0.01 10_	
N. I.D. well casing _ 2.06_ in.			1	l. Slotted length: Backfill material (b	elow filter pack):	None X Other □	
hereby certify that the information on this fo	orm is true and cor:	rect to the bes	t of my know	ledge.			<u> </u>
Signature	Firm	l					
May		Endeavor E	avironmenta	l Services, Inc.			

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastev	vater 🔲	Waste Managem	ent 🔲		
Remediation/Rede	velopment [X]	Other 🔲			
Facility/Project Name	County Name		Well Name		
Da Swamp		SHAWANO		MW-10	0
Facility License, Permit or Monitoring Number	County Code 59_	Wis. Unique Wel	Number VW255	DNR W	'ell ID Number ————
1. Can this well be purged dry?	; □ No	11. Depth to Wat		velopmen	nt After Development
2. Well development method		(from top of	a. 7.44	ft.	ft.
surged with bailer and bailed 4	1	well casing)	a		
surged with bailer and pumped \(\square 6					
surged with block and bailed 4		Date	L 02 / 04	2014	4 2 / 4 / 2014
surged with block and pumped			$\frac{1}{m}\frac{1}{m}$	$\frac{1}{d} \frac{1}{y} \frac{y}{y}$	$\frac{4}{y} \frac{2}{y} \frac{2014}{m m} \frac{2}{d} \frac{4}{d} \frac{2014}{y y}$
surged with block, bailed and pumped 📋 7				гла.m.	□ a.m.
compressed air	0	Time	c. <u>01:_0</u>	$0 \times p.m.$	01 : 10 \times p.m.
bailed only X 1				_	
pumped only		12. Sediment in we	:Il	inches	inches
pumped slowly)	bottom			
Other		13. Water clarity	Clear ☐ 1 Turbid ☐ 1		Clear □ 20 Turbid □ 25
3. Time spent developing well	min.		(Describe)		(Describe)
4. Depth of well (from top of well casisng) 14.9	ft.				
5. Inside diameter of well 2.06	in.				**************************************
6. Volume of water in filter pack and well casing 2	gal.				
7. Volume of water removed from well _8		Fill in if drilling flu	aids were used ar	nd well is a	at solid waste facility:
8. Volume of water added (if any)	gal.	14. Total suspende solids	d	mg/l	mg/1
9. Source of water added		15. COD		mg/l	mg/l
	ļ				
		l 6. Well developed	• •		
10. Analysis performed on water added?	□ No	First Name: Cr	aig	Last Nam	e: Eckstein
(If yes, attach results)		Firm: Endeavor	Environmental Se	ervices, Inc	2.
17. Additional comments on development:					
NI	T				
Name and Address of Facility Contact/Owner/Responsible P First Last VanGheem Name: Name:	arty	I hereby certify the of my knowledge		ormation is	s true and correct to the best
D. C LLC		Signature: (M	nin Entit	m	
racinty/Fitti.			ng and	711	**************************************
Street: W2746 Half Mile Road		Print Name: Craig	Eckstein		Market Market and a second and the s
City/State/Zip: Seymour WI 5410	55- F	irm: Endea	vor Environment	al Services	, Inc.

State of Wisconsin	
Department of Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Rou	ite To:			Vastewater Wastewater				t 🔲			············						
													····				1	of	
Facility/Project	ct Nar	ne						Licer	ise/Per	mit/M	lonit	orin	g Nun	nber	Borin	g Num		1W-10	
Boring Drilled		Nam	e of cr	ew chie	ef (first,	last) and Firm		Date	Drillin	g Star	ted		Date l	Drillin	g Com	pleted	Drillin		
First Name: To		ironn		Name: [Services.			· [1 m m	$\frac{31}{d}$	$\frac{20}{y}$	$\frac{14}{y}$	<u>_</u>	$\frac{1}{m}$	$\frac{31}{d}$	$\frac{201}{y}$	$\frac{4}{y}$	hollo	w ster	n auger
WI Unique W VW255				Well II		Well Name MW-10			Static		Lev	'el		e Elev	ation	MSL	Boreh		ameter nches
Local Grid Or State Plane				d: [x]) _ N, _		ring Location X		I	at	0	•		Local	Grid L	ocatio				□ E
NW 1/4 of 1			f Sectio	m 19		25 _{N, R} 18 _I		Lo			1				eet 🗀	S_		Fee	U W
Facility ID				County		WANO	Cou 	inty C _59_	Code	Civi	Tov	ил/ С	∠ity/ o	r Villa		laple G	rove		
Sample		(eog													Soil	Prope	rties		
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)			and Geol	ck Description ogic Origin For Major Unit			uscs	Graphic Log	Well	Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1			0.0	- 0.5	Topsoi				TS	1, , ,	╫	7		<u> </u>					
S-1 16	-	=	0.5	- 2.0		brown sandy loam		_	ML-				0.3 1.0						
S-2 18	Ē	2	/ 2.0	- 4.0	Moist,	brown sandy loam			ML-				1.0						
S-3 18		4	√ 4.0	- 6.0		noist, reddish brow I sandy loam	n	\neg	ML-				1.3					ļ	
S-4 20		4	√ 6.0	- 8.0		oist, reddish brow I sandy loam	n		ML-				1.3		,				٠
S-5 14	_		√8.0	- 9.5		oist, reddish brow I sandy loam	n		ML-]	1.9						
S-5 6	-	10	9.5	- 10.0	Very m	oist, grey medium-	-coars	e \	SP				1.9						
S-6		12	10.0	- 12.5	Earth c	Irill to 12,5 feet bel surface. Refusal a ow ground surface	t 12.5												
		-																	
			٠.			·													·
hereby certify	that	the in	nforma	ation o	n this fo	rm is true and co	rrect	to th	e best	of m	y kn	ow	ledge						
gnature	/-	1	20			-	Fi	rm	Endes	vor E	lviro	nm	ental S	Service	s, Inc.				
ENC	_0	1		-						121		******	\		-,				

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waster	vater	Waste Manag	ement		
Remediation/Rede	velopment [X]	Other			
Facility/Project Name	County Name	t	Well Name		
Da Swamp	-	SHAWANO		MW-11	
Facility License, Permit or Monitoring Number	County Code .59	Wis. Unique V	Vell Number VO000	DNR Well	ID Number
1. Can this well be purged dry?	x No	11. Depth to V	Vater		After Development
2. Well development method		(from top o		ft.	ft.
surged with bailer and bailed 4	1	well casing)		
surged with bailer and pumped	2	Date			$\frac{2}{y} \frac{2}{m} \frac{4}{d} \frac{2014}{y} \frac{2}{y} \frac{3}{y}$
compressed air \square 2		Time	c. 12 : 3	$\frac{2}{X}$ p.m.	12: 41 X p.m.
bailed only X 1			••		
pumped only		12. Sediment in bottom	well	inches	inches
pumped slowly		13. Water clarit	y Clear 🗍 1 Turbid 🖟 1		llear □ 20 'urbid □ 25
3. Time spent developing well 9	min.		(Describe)		Describe)
4. Depth of well (from top of well casisng) 15					
5. Inside diameter of well 2.06	in.			· .	
6. Volume of water in filter pack and well casing	gal.	Fill in if drilling	fluids were used an		olid waste facility
7. Volume of water removed from well _8	gal.	_			mg/l
8. Volume of water added (if any)	gal.	solids	1000		
9. Source of water added		15. COD		mg/l .	mg/l
	· ·	16. Well develor	oed by: Name (first, la	st) and Firm	
10. Analysis performed on water added?	□ No	First Name:	Craig	Last Name:	Eckstein
(If yes, attach results)					
***************************************		Firm: Endeav	or Environmental Se	rvices, Inc.	
17. Additional comments on development:					
Name and Address of Facility Contact/Owner/Responsible P First Leland Last VanGheem Name:	arty	I hereby certify of my knowled		mation is tru	ue and correct to the best
Facility/Firm: Da Swamp, LLC		Signature:	rent Estate	M	·
Street: W2746 Half Mile Road		Print Name: Cra	nig Eckstein		
City/State/Zip: Seymour WI 541c	55 F	Firm: End	leavor Environmenta	ıl Services, In	ıc.

	Watershed/Wastewater	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Rev. 7-98
Facility/Project Name Da Swamp	Remediation/Redevelopmen Local Grid Location of We ft	t Other E	Well Name MW-11
Facility License, Permit or Monitoring No.	Local Grid Origin (est	timated: X) or Well Location	Wis. Unique Well No. DNR Well ID No.
Facility ID	St. Plancf	t. N, ft. E. S/C/	N Date Well Installe 1 / 31 / 2014
Type of Well Well Code 11 / mw	Section Location of Waste/ NW 1/4 of NW 1/4 of S Location of Well Relative to	ec. 19. T. 25 N. R. 18	— Iony Kanugi
Distance from Waste/ Enf. Stds. Source ft. Apply		☐ Sidegradient	On-site Environmental Services, Inc.
	ft. MSL	1. Cap and lock?	☐ Yes X No
a, I	ft. MSL	2. Protective cove	ster: 4 _{in.}
C. Land surface elevation	ft. MSL	b. Length:	3 ft.
D. Surface seal, bottom ft. MS	Lor 2.5_ ft.	c. Material:	Steel X 0 4
12. USCS classification of soil near screen	\$24370653°C	d. Additional p	
	W D SP D	LTA	ibe:
SM X SC □ ML X MH □ C Bedrock □	r ch ch ch	3. Surface seal:	Bentonite X 30
	es IX No		Concrete 0 1
	ary □ 5 0	4 Material betwee	Other D
Hollow Stem Au	· 1 10	4. Maiorial Docke	Bentonite IX 30
	her 🗆 🎆		Other 🗆 🏬
145 P. W		5. Annular space:	seal: a. Granular/Chipped Bentonite X 3 3
	Air □ 01	bLbs/gal	mud weight Bentonite-sand slurry 35
2 mmg maa 🗆 03 11	Diffe 121		mud weight Bentonite slurry 31
16. Drilling additives used?	es IX No	d % Bento	onite Bentonite-cement grout \(\sigma \) 50
		f. How installe	m + m
Describe	1 777	i, now mount	Tremie pumped 🗆 02
17. Source of water (attach analysis, if requi	red):		Gravity 🗆 08
		6. Bentonite seal:	a. Bentonite granules 3 3
E. Bentonite seal, top ft. MSL	or ft.	d 1000f	X3/8 in. □ 1/2 in. Bentonite chips X 3 2 Other □
F. Fine sand, top ft. MSL	or _ 2.5 ft.	4 MW Z	ial: Manufacturer, product name & mesh size
G. Filter pack, top ft, MSL	or _3 ft.	a. Fine sand b. Volume adde	od_0.5n³
H. Screen joint, top ft. MSL	or _ 3 ft.	8. Filter pack mate	rial: Manufacturer, product name & mesh size
	12	b. Volume adde	
I. Well bottom ft. MSL		9. Well casing:	Flush threaded PVC schedule 40 [X 2 3 Flush threaded PVC schedule 80
J. Filter pack, bottomft. MSL	or 13 ft.	10. Screen material	Other
K. Borehole, bottom ft. MSL	or _ 13 ft.	a. Screen type:	Factory cut [X 11] Continuous slot □ 01
L. Borehole, diameter _ 6.25_ in.		b. Manufacturer	Other 🗆
M. O.D. well easing _ 2.37_ in.		c. Slot size: d. Slotted length	<u>0.01</u> in.
N. I.D. well casing 2.06 in.			I (below filter pack): Other Other
I hereby certify that the information on this fo	orm is true and correct to the	best of my knowledge.	3437 🗀 🕸
Signature	Firm		
ist all	Endeav-	or Environmental Services, Inc.	

State of Wisconsi	n
Department of Na	tural Resources

Signature

SOIL BORING LOG INFORMATION

Form 4400-122 Rcv. 7-98 Watershed/Wastewater Waste Management Route To: Remediation/Revelopment Other Page Boring Number Facility/Project Name License/Permit/Monitoring Number Da Swamp Date Drilling Started Boring Drilled By: Name of crew chief (first, last) and Firm Date Drilling Completed Drilling Method Last Name: Kapugi First Name: Tony $\frac{1}{m} / \frac{31}{d} / \frac{2014}{y}$ $\frac{1}{m} / \frac{31}{d} / \frac{2014}{y} = \frac{1}{y}$ hollow stem auger Firm: On-site Environmental Services, Inc. m m Final Static Water Level WI Unique Well No. DNR Well ID No. Well Name Surface Elevation Borehole Diameter VO0006.25 MW-11 Feet MSL Feet MSL inches Local Grid Origin (estimated: IX) or Boring Location Local Grid Location 0 Lat $\square N$ \Box E NW 1/4 of NW 1/4 of Section 19 T 25 N. R 18 Long Feet □ S Feet□ W Facility ID County Code Civil Town/City/ or Village County 59 **SHAWANO** Maple Grove Soil Properties Sample Depth in Feet (Below ground surface) ઝ Recovered (in) Soil/Rock Description Blow Counts Length Att. RQD/ Comments And Geologic Origin For Plasticity Index and Type SCS Moisture Content PID/FID Graphic Each Major Unit Liquid Limit P 200 Well ML 0.3 S-1 14 0.0 - 2.0 Moist, brown sandy loam 0.3 2.0 - 4.0 Moist, brown sandy loam S-2 16 ML 4.0 Moist, brown sandy loam with 0.9 S-3 16 - 6.0 ML. reddish mottling 0.3 6.0 - 8.0 Moist, brown sandy loam S-4 20 ML-- 10.0 Moist, brown sandy loam with 0.9 S-5 20 ML some coarse rock Earth drill to 13 feet below 10.0 - 13.0 S-6 ground surface. Refusal at 13 feet below ground surface. 12 I hereby certify that the information on this form is true and correct to the best of my knowledge.

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Firm

Endeavor Environmental Services, Inc.

State of Wisconsin Department of Natural Resources Route to: V	Vatershed/Wastewa	ter [Waste Mans	agement	MONITORING W Form 4400-113A	ELL CONSTRU	JCTIO
	Remediation/Redeve Local Grid Location	lopment	Other 🔲 🗕			XQY, 7-30	
Facility/Project Name	Local Grid Location	n of Well □ N.	,	ft. □ E. W.	Well Name		
DaSwamp Bar	7.5.17.5.1	ft. 🗆 S.			MW-5R		
Facility License, Permit or Monitoring No.	Local Grid Origin	(estimated	J: □) or	Well Location	Wis. Unique Well	No. DNR Well II	D No.
	Ĺat,	"Lor	1g	or			
Facility ID	St. Plane	ft. N,		ft. E. S/C/N	Date Well Installed	l 2/21/20	1 8
	Section Location of			······································	m	m dd v v	V Y
Type of Well	NW _{1/4 of NW}			N, R. 18 W	Well Installed By:	Name (first, last)	and Fir
Well Code 11 / mw	Location of Well R			Gov. Lot Number	- Mike		
Distance from Waste/ Enf. Stds.	u Upgradient	eranve to wast	idegradient	Gov. For Maniper	0 1 141 11 5	*11*	
Sourceft, Apply _	d Downgradie		-		Sam's Well D	rilling	
	2.0≤ ft. MSL -		1 سسہ ہ	. Cap and lock?		☐ Yes ☐] No
B. Well casing, top elevation	1 28 ft. MSL -		10 mm 2	. Protective cover p	•		
			market to the same	a. Inside diameter	r:		in.
C. Land surface elevation	ft. MSL _		.	b. Length:		NA. 100	ft.
T) 0 - C 1 1 - 44			1000	c. Material:		Steel 🗔	
D. Surface seal, bottom ft. MS			NAME OF THE PERSON OF THE PERS			_ Other 🗆]
12. USCS classification of soil near screen	: [*	1 1 March	Ass. Lucion	d. Additional pro	tection?	☐ Yes ☐] No
	w 🗆 SP 🔲	\ E	<i>/</i> / <i>(</i>	If yes, describe	ð:	***************************************	
SME SC D MLD MHD C	L D CH D	₩ ₩	3 \ \ \ ₂	D . C		Bentonite 🛭	3 3 0
Bedrock 🗆	<u> </u>	1881 188	§ \ 3	. Surface scal:		Concrete 🗆	j 01
13. Sieve analysis performed?	es 🗆 No	88 88	4 \			Other □	200000
14. Drilling method used: Rots	ırv □ 50	 	4	Material between	well casing and prot		* ***
Hollow Stem Aug		- 100 N N N N N N N N N N N N N N N N N N	8 .		housest answer house	Bentonite 🖾	3 3 0
	her 🗆 🗮		8			Other 🗆	. Worker
			1 -		a Generalas/Ch	ipped Bentonite 🖾	33
15. Drilling fluid used: Water □ 0 2	Air □ 01			. Annular space sea			
	one 299	188 188			ud weight Bento		
	Jills yar > >	XX XX			ud weight B		
16. Drilling additives used?	es No		d		te Bentoni		50
	, , , , , , , , , , , , , , , , , , ,	 	e	1Ft -	volume added for a		
Describe WM			f	How installed:		Tremie 🗆	
17. Source of water (attach analysis, if require					T	Tremie pumped 🛘	02
17. Source of water (attach analysis, if requi	rea):					Gravity 🖾	¥ 08
<u> </u>			6.	Bentonite seal:	a. Ben	itonite granules 🔲	33
		 		b. 1/4 in. 483	3/8 in. 🗆 1/2 in.	Bentonite chips 🖏	1 32
E. Bentonite seal, top ft. MSL	or ft.		/	C		- Other 🗆	l 🎇
•	`	∖ 💹 💥					'errere
F. Fine sand, top ft. MSL	or ft. \	\	/ 7.	Fine sand material	l: Manufacturer, pro	duct name & mes	sh size
•	Ì			a			
G. Filter pack, top ft. MSL	or ft.\					ft ³	
and the same of th					al; Manufacturer, pr	***	ch ciza
H. Screen joint, top 893, 28ft. MSL	or 3 ft		/ °	The pack mach	ai, ivianuiaciaici, pi	bodet hame is me	38888
n. sereen joint, top 22 2 12 2 2 11 1122	01			a b. Volume added	······································	ft 3	
I. Well bottom & 23, 28ft. MSL	ar 13.0 ft.			Well casing:	Flush threaded PVC	^ · ·	1 7 2
I. Well bottom £73, 28ft. MSL	·) y.	wen casing.			
r water to the Control	Δ.				Flush threaded PVC		
I. Filter pack, bottomft. MSL	or		1		51.70	Other	
619 18	13.5 0			Screen material:	PVC		
K. Borehole, bottom \$23.28ft. MSL	or 13.3 _ II. <		£	a. Screen type:		Factory cut [X]	11
0.05					C	ontinuous slot 🔲	01
L. Borehole, diameter6.25in.		* ***********************************	\			_ Other 🗆	
	•		\ t	o, Manufacturer _			
M. O.D. well casing $\frac{2.37}{10.00}$ in.			``	. Slot size:		0. 0.	1_in.
			\ (1. Slotted length:			ft.
N. I.D. well easing 2.06 in.			11.	Backfill material (below filter pack):	None 🛛	
tite			**1		parisi	Other 🗆	******
hereby certify that the information on this fo	orm is true and corre	ect to the best o	of my know	ledge.			<u> </u>
Signature // // // Signature	Firm		a my anom				
Chill III	1, 1111	Endeavor	· Environme	ental Services, In	C.		

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

		Rou		Vastewater War Revelopment War												
													Page	. 1	of	1
Facility/Proj	ect Na		Swamn			Licen	se/Per	mit/Mo	onitorir	ig Nun	nber	Borin	g Num			
						Date Drilling Started Date Drilling Completed Drilling Method										hod
First Name: N Firm: Sam		ell Drill	Last Name:			$\frac{02}{mm}$	$\frac{2}{d} \frac{1}{d}$	$l = \frac{2}{y} \frac{0}{y}$	18 y y	02	$\frac{2}{d}\frac{1}{d}$	$\frac{20}{y}$	18 <u>y</u> y	hol	low st	tem auger
WI Unique V V O 0 1 4	Well N			Well Name MW-5R				Water	Level			ation		Borehole Diameter6.25_ inches		
Local Grid C)rigin	(es	stimated: or Bor N,			<u> </u>		Feet N	/ISL "	Local	Grid I	_Feet		0	. <u>25</u> i	nches
State Plane _ SW 1/4 of	sw	_ 1/4 of	Section 18 , T 2	E 5_N, R18_E		Lo	.at ng	۰ ٥	11		F	eet 🗖	N S_	_		□ E □ W
Facility ID			County Shawa	no	Co	unty C	ode 9	Civil	Town/	•	τ Villa	ge				
Sample		ଞ		1,0			<u> </u>	_	<u> </u>	lapie	Grove		Prope	rties		
Number and Type Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	And Geole	k Description ogic Origin For Major Unit			uscs	Graphic Log	Well Diagram	OIH/OIM	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
		Ŋ. 5	Earth Drill / no s													
I hereby certi Signature	fy tha	t the i	nformation on this fo	rm is true and cor		irm					al Sei		Ina			

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Waste	water	Waste Management
Remediation/Red	levelopment	Other
Facility/Project Name	County Name	Well Name
Da Swamp Bar	Sha	awano County MW-5R
Facility License, Permit or Monitoring Number	County Code _5_9	Wis. Unique Well Number VO014 DNR Well ID Number
1. Can this well be purged dry?	es 🗆 No	11. Depth to Water Before Development After Development
surged with bailer and pumped surged with block and bailed surged with block and pumped surged with block, bailed and pumped compressed air bailed only pumped only pumped slowly Other 3. Time spent developing well 4. Depth of well (from top of well casisng) 5. Inside diameter of well 6. Volume of water in filter pack and well casing 7. Volume of water removed from well 8. Volume of water added (if any) 9. Source of water added 10. Analysis performed on water added? 11. Ye (If yes, attach results)	4 2 5 2 7 0 2 0 1 0 5 1 5 0	(from top of well casing) Date b. 3 / 1 2 / 2 0 1 8
17. Additional comments on development:		
Name and Address of Facility Contact/Owner/Responsible First Last Name: Linda Name: Van Gheem	Party	I hereby certify that the above information is true and correct to the best of my knowledge.
Pacility/Firm: Da Swamp, LLC		Signature: Inde II
Street: W2746 Half Mile Road		Print Name: Jordun huntman
City/State/Zip: Seymour WI 54165		Firm: Endeavor Environmental Services, Inc.

State of Wisconsin Department of Natural Resources Route to: Watershed/W Remediation/	astewater Waste Management MONITORING WELL CONSTRUCTIO Redevelopment Other Monitoring Well CONSTRUCTIO Form 4400-113A Rev. 7-98
	ocation of Well Wall Name
DaSwamp Bar	ft. Sft. W. PZ-1
Facility License, Permit or Monitoring No. Local Grid O	Origin 🔲 (estimated: 🔲) or Well Location 🖂 Wis, Unique Well No. DNR Well ID No.
Lat.	"Long. " " VO 0 1 2
	Dutu Wall Imatelled
ot. I talko	ILN,ILE, S/C/N
Type of Well Section Local	ation of Waste/Source mm d d y y y y NNA 444 60 19 72 25 N 7 19 E. Well Installed By: Name (first, last) and Fir
Well Code 12 / pz NW 1/4 of	1NV 1/4 of Sec. 15 , 1, 25 N, R. 18 UW
Location of	Well Relative to Waste/Source Gov. Lot Number
Distance from Waste/ Enf. Stds. u Upgr	adient s Sidegradient Sam's Well Drilling
	ngradient n 🗆 Not Known
A. Protective pipe, top elevation _ FRY. // ft. M	ISL 1. Cap and lock? ☐ Yes ☐ No
062 016 1	1 th 2 Departure norman nines
B. Well casing, top elevation 883. 24ft. M	a. Inside diameter:
O Y and an Committee of	11 11
C. Land surface elevation ft. M	Steel 04
D. Surface seal, bottom ft. MSL or	64 POST 20 N 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
12. USCS classification of soil near screen:	1 825 (0.00 37.11) 1 1 1 1 1 2 1 2 2 2 2 2 2 2 2 2 2 2
	d. Additional protection?
GP GM GC GW SW SP	If yes, describe:
SM SC ML MH CL CH Bedrock 5	3, Surface scal:
	Concrete D 01
13. Sieve analysis performed? ☐ Yes ☐ No	Other 🗆 🧶
14. Drilling method used: Rotary 🕱 50	4. Material between well casing and protective pipe:
Hollow Stem Auger 1 4.1	Bentonite 🖾 30
Other 🗆	Other 🗆
O STILL THE MANAGEMENT OF THE PARTY OF THE P	1 BOOL BOOL
15. Drilling fluid used: Water □ 0 2 Air □ 0 1	5. Annular space seal: a. Granular/Chipped Bentonite 🖾 33
Drilling Mud 🗆 03 None 🗷 99	bLbs/gal mud weight Bentonite-sand slurry [35
Diming water 103 None is 33	cLbs/gal mud weight Bentonite slurry 🗆 31
16. Drilling additives used? ☐ Yes ► No	d % Bentonite Bentonite-cement grout 🗆 50
10. Diming additives used?	e. 1 Ft 3 volume added for any of the above
n n wils	f. How installed: Tremie 🗆 01
Describe N/A	Tremie pumped 🗆 02
17. Source of water (attach analysis, if required):	Gravity 🛛 08
NA	6. Bentonite seal: a. Bentonite granules 33
	— I I I I I I I I I I I I I I I I I I I
E. Bentonite seal, top ft. MSL or	c 1004 WM)
E. Bentonne seat, top tt. Wish of	_ft Other 🗆 🎬
m m	7. Fine sand material: Manufacturer, product name & mesh size
F. Fine sand, top ft. MSL or	-11. \ \ \(\(\)
G. Filter pack, top ft. MSL or	ft. b. Volume addedft ³
	8. Filter pack material: Manufacturer, product name & mesh size
H. Screen joint, top \$55.24 ft. MSL or28	
	b. Volume added ft 3
I. Well bottom \$50.74ft. MSL or33	ft. 9. Well casing: Flush threaded PVC schedule 40 \(\sigma\) 2.3
1. Well bottom V_1_D_7/10 Mod of	
T THE STATE OF THE	Flush threaded PVC schedule 80 🗆 24
J. Filter pack, bottom ft. MSL or	
22.5	10. Screen material: PVC
K. Borchole, bottom \$\int_50.24\ft. MSL or _33.5	a. Screen type: Factory cut ⊠ 11
	Continuous slot 🗆 01
L. Borehole, diameter6.25_ in.	Other 🗆 🎆
	b, Manufacturer
M. O.D. well easing 2.37 in.	c. Slot size: 0. 01 in.
THE THE THE THE THE THE	d. Slotted length:10 ft.
2.06	
N. I.D. well casing in.	11, Backfill material (below filter pack): None 2 14
	Other 🗆 👑
I hereby certify that the information on this form is true an	d correct to the best of my knowledge.
Signature / ///	Firm
Made IL	Endeavor Environmental Services, Inc.

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

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

	Route To: Watershed/Wastewater Waste Management Remediation/Revelopment Other D																
							_							Page	. 1	of	1
Facili	ty/Proj	ect Na		Swam	·····		Licer	ise/Per	mit/M	onitori	ng Nur	nber	Borin	g Num	ber		
				Swam e of cre	ew chief (first,	last) and Firm	Date	Drillin	g Start	ed	Date 1	Drillin	Com		-/ Drillin	ig Met	hod
	Yame: \ Sam		ell Drill		Name:		02	1 <u>2</u> 1	$1 - \frac{2}{v} = \frac{0}{v}$	18_v	0.2	$\frac{21}{d}$	$\frac{20}{\sqrt{y}}$	$\frac{18}{\sqrt{y}}$	- 0	oual R	totary
WI U	nique \	Vell N		DNR	Well ID No.	Well Name PZ-1		Static		Level		ce Elev	ation	MSL	Borehole Diameter 6.25 inches		
Local	Grid C	Prigin			N.	oring Location D	<u></u> i	Lat	0		Local	Grid L	ocatio	n	<u> </u>		······································
sw	1/4 of	sw	_1/4 of	Section	n 18 , T	25 N, R 18 E	Lo	ng	0		l		eet 🗆	1 N 1 S _			□ E □ W
Facili	ty ID				County Shaw	ano	County C	Code 9	Civil		•	or Villa	-				
Sarr			છુ	!		<u> </u>			ļ	<u> </u>	//apie	Grove		Prope	rties		
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)		And Geo	ock Description slogic Origin For a Major Unit		uscs	Graphic Log	Well Diagram	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
			33.5		Weath	/ no soil sample ered Bedrock m of Boring											
hereb	y certi	fy tha	t the i	nforma	ation on this f	orm is true and co	rect to th	ie best	of m	y knov	vledge),			L		
Signatu	re /	Inci	1	ſ,			Eirm	Ende	avor l	Enviro	nmen	tal Sei	vices	, Inc.			

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater	Waste Management [
Remediation/Redevelopment	Other
Facility/Project Name County Name	Well Name
Da Swamp Bar Sh	awano County PZ-1
Facility License, Permit or Monitoring Number County Code	
5 9	V0012
1. Can this well be purged dry? ☐ Yes ☐ No	Before Development After Development
At John and Wast of Paragon and I	11. Depth to Water
2. Well development method	(from top of a , 4.75 ft. 5 ft.
surged with bailer and bailed 4 1	well casing)
surged with bailer and pumped \Box 61	
surged with block and bailed 4 2	Date b. $\frac{0.03}{m \text{ m}} / \frac{12}{d} / \frac{20}{y} / \frac{18}{y} = \frac{0.3}{m \text{ m}} / \frac{12}{d} / \frac{20}{y} / \frac{18}{y}$
surged with block and pumped \Box 62	mm ddyyyy mm ddyyy
surged with block, bailed and pumped 70	Time c, $1 + 3 = 2 \stackrel{\text{fd}}{=} \text{ a.m.}$ $1 + 4 \stackrel{\text{gr a.m.}}{=} \text{ p.m.}$
compressed air 20	Time $c. \perp \perp : \underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline$
bailed only	12. Sediment in well inches inches
pumped only 5 1	12. Sediment in well inches inches
pumped slowly 5 0 Other	
Other	13. Water clarity Clear
3. Time spent developing well15min.	(Describe) (Describe)
	no oder
4. Depth of well (from top of well casisng) 33 ft.	
5. Inside diameter of well2_,	
6. Volume of water in filter pack and well	***************************************
casing gal.	TOTAL PART AND A MARKET OF THE ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS ANALYSI
7. Volume of water removed from well3 gal.	Fill in if drilling fluids were used and well is at solid waste facility:
7. Volume of water removed from wetr	14. Total suspended mg/l
8. Volume of water added (if any) gal.	solids
9. Source of water added	15. COD mg/l
	16. Well developed by: Name (first, last) and Firm
10. Analysis performed on water added? Yes No	First Name: Jordan Last Name: Kaufman
(If yes, attach results)	Firm: Endeavor Environmental Services, Inc.
17. Additional comments on development:	Film, Endeavor Environmental Convices, inc.
27. Inditional confinement of development.	
•	
	•
Name and Address of Facility Contact/Owner/Responsible Party	The desired and the desired an
irst Last	I hereby certify that the above information is true and correct to the best of my knowledge.
Name: Linda Name: Van Gheem	1 A/O
Racility/Firm. Da Swamp, LLC	Signature: Inde 94
facility/Firm: Da Swamp, LLC	yuco
Street: W2746 Half Mile Road	Print Name: Jordan Kaweman
	The same of the sa
City/State/Zip: Seymour WI 54165	Firm: Endeavor Environmental Services, Inc.
*	

	ershed/Wastewater tediation/Redevelopment	Waste Management	MONITORING WELL CONSTRUCTION Form 4400-113A Roy, 7-98
Facility/Project Name Loc DaSwamp Bar	tediation/Redevelopment cal Grid Location of Well ft.	S. L. S.	Well Name MW-21
Facility License, Permit or Monitoring No. Loc	cal Grid Origin (estim	ated: 🔲) or Well Location	Wis, Unique Well No. DNR Well ID No.
Facility ID St.	Plancft. N	ft. E. S/C/	N Date Well Installed 0 2/21/2018
Type of Well N	ction Location of Waste/Sou $\frac{ W }{1/4}$ of $\frac{NW}{1/4}$ of Sec.	19 , T. 25 N, R. 18	E Well Installed By: Name (first, last) and Firm
Loc	cation of Well Relative to V	Vaste/Source Gov. Lot Number Sidegradient	
Sourceft. Apply _ d	□ Downgradient n □	Not Known -	Sam's Well Drilling
A. Protective pipe, top elevation _ P83.	FOft. MSL	1. Cap and lock? 2. Protective cove	
B. Well casing, top elevation FF3.	49ft. MSL	a. Inside diame	- ·
C. Land surface elevation	ft. MSL	b. Length:	ft.
D. Surface seal, bottom ft. MSL o	ft.	c. Material:	Steel □ 04
12. USCS classification of soil near screen:		d. Additional p	Other 🗆 🏬
GP □ GM □ GC □ GW □ SW		If yes, descri	
SM SC ML ML MH CL Bedrock	□ сн □	3. Surface scal:	Bentonite □ 30
13. Sieve analysis performed?	ri No		Concrete 0 01
14. Drilling method used: Rotary	1 100	4 Material between	Other D
Hollow Stem Auger			Bentonite 🖾 30
Other			Other 🗆 🚞
15. Drilling fluid used: . Water □ 0 2 Air	□ 01	5. Annular space	
	2 99 ₩		l mud weight Bentonite-sand slurry ☐ 35 l mud weight Bentonite slurry ☐ 31
			onite Bentonite-cement grout \square 50
16. Drilling additives used?	■ No		t 3 volume added for any of the above
Describe NA		f. How installe	
17. Source of water (attach analysis, if required)			Tremie pumped D 02 Gravity E7 08
NA		6. Bentonite seal:	
4		b. □1/4 in.	₹23/8 in. □ 1/2 in. Bentonite chips 42 3 2
E. Bentonite seal, top ft. MSL or	ft.	/ c	Other 🗆 🎇
F. Fine sand, top ft. MSL or	ft.	7. Fine sand mate	rial: Manufacturer, product name & mesh size
		a	
G. Filter pack, top ft. MSL or	ft. \	b, Volume add	
H. Screen joint, top PPO. 49ft. MSL or	3 A-	8. Filter pack mat	erial: Manufacturer, product name & mesh size
	N lan	b. Volume add	ed ft ³
I. Well bottom \$20,49 ft. MSL or	13.0ft.\	9. Well casing:	Flush threaded PVC schedule 40 23
v vet			Flush threaded PVC schedule 80 24
J. Filter pack, bottom ft. MSL or	1.	10. Screen material	Other
K. Borchole, bottom 869. 99ft. MSL or	13.5_ ft.	a. Screen type:	
6.25			Continuous slot 0 1
L. Borehole, diameter $\frac{6.25}{10.00}$ in.		() () () () () ()	Other 🗆
M. O.D. well casing in.		b. Manufacture c. Slot size:	0. <u>01</u> in.
		d. Slotted leng	
N. I.D. well casing 2.06 in.		11. Backfill materia	al (below filter pack): None 2 14
I hereby certify that the information on this form	is true and correct to the hi	et of my knowledge	Other 🗆 🧱
Signature	Firm	or or my knownougo,	
Jose Il		avor Environmental Services,	Inc.

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

State of Wisconsin	
Department of Natural Resources	

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater												
Remediation/Revelopment		ner <u>L</u>				,				_		4
Facility/Project Name	· · · · · · · · · · · · · · · · · · ·	Hicen	op/Par	mit/M	onitoria	a Nur	nher	Borin	Page g Num	; _ 1	_ of _	<u> </u>
Da Swamp		Biccii		, 1440	JIII COI II	16 1 101.	11001	20111	8 110.11	001		
Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Mike Last Name:		1	Date Drilling Started Date Drilling Completed Drilling								ig Mei	hod
Firm; Sam's Well Drilling		02	$\frac{2}{d} \frac{1}{d}$	$l = \frac{2}{y} \frac{0}{y}$	$\frac{18}{y}$	$\frac{02}{m}$	$\frac{21}{d}$	$\frac{20}{y}$	18 y y	hol	low st	em auger
WI Unique Well No. DNR Well ID No. Well Name	4			Water	Level		ce Elev	ation		Borehole Diameter		
V 0 0 1 3 MW-2 Local Grid Origin □ (estimated: □) or Boring Location		<u></u>		Feet N		Local	Grid L	_Feet		6	.25 i	nches
State PlaneN,E			.at	0 '			Ond L		 I N			DЕ
SW 1/4 of SW 1/4 of Section 18 , T 25 N, R 18	8 E	Lor	ng					eet 🗀	<u> </u>		_ Feet	□ W
Facility ID County Shawano	Co	ounty C	ode 9	Civil		-	r Villa Grove	-				
					<u> </u>	Maple Grove Soil Properties						
Number and Type Recovered (in) Blow Counts							ပ္					-6
And Geologic Origin For Each Major Unit Blow Country Blow Geologic Origin For Each Major Unit Below ground amp	r		cs	je Je	um Um	Œ	Compressive Strength	ure	- G-	city	_	RQD/ Comments
And Geologic Origin For Each Major Unit	·		n S	Graphic Log	Well Diagram	PID/FID	omp	Moisture Content	Liquid Limit	Plasticity Index	P 200	Q III
7872 11 113				0 7			000	20		4		140
Earth Drill / no soil sample												
		i										
13.0 Weathered Bedrock												
26 24 6 0.034								!			!	
13.5 Bottom of Boring												
		İ										
		1										
		İ	i							l	į	
		- 1	ļ	ļ	(Į		- [ļ	ļ	Į.	
									ĺ			
I hereby certify that the information on this form is true and	d correc	at to the	e hest	of my	knou	l edor	L :	1			J	
Signature /		Firm		************								
	Ì	•	Ende	avor E	Enviro	nment	tal Ser	vices	, Inc.			

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State of Wisconsin Department of Natural Resources

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewa		Waste Management			
Remediation/Redev		Other			
· · · · · · · · · · · · · · · · · · ·	County Name		Well Name		
Da Swamp Bar		wano County	MW-21	10.5 PM TV 11 1	
Facility License, Permit or Monitoring Number	County Code <u>5</u> 9	Wis. Unique Well No. VO01		DNR Well I	D Number
1. Can this well be purged dry? ☑ Yes	□ No	11. Depth to Water		-	After Development
2. Well development method surged with bailer and bailed	_ min.	(from top of well casing) Date	b. <u>O. Z</u> / <u>I</u>	$ \begin{array}{c c} & J & O & U \\ \hline & y & y & y \end{array} $ $ \begin{array}{c} & a.m. \\ & p.m. \end{array} $ inches $ \begin{array}{c} & & & & & & & \\ & & & & & & \\ & & & &$	ft. $ \frac{1}{y} \frac{03}{m} \frac{12}{d} \frac{20}{y} \frac{20}{y} $ $ \frac{1}{2} \cdot \frac{1}{y} \frac{0}{m} \frac{a.m.}{p.m.} $ inches $ \frac{1}{y} \frac{12}{m} \cdot \frac{12}{m} \frac{12}{p.m.} $ $ \frac{1}{y} \frac{12}{m} \cdot \frac{12}{m} \frac{12}{p.m.} $ $ \frac{1}{y} \frac{12}{m} \cdot \frac{12}{m} \frac{12}{p.m.} $ $ \frac{1}{y} \frac{12}{m} \cdot \frac{12}{m} \cdot \frac{12}{m} \frac{12}{p.m.} $ $ \frac{1}{y} \frac{12}{m} \cdot \frac{12}{m} \cdot \frac{12}{m} \cdot \frac{12}{m} \frac{12}{m} \cdot \frac{12}{m} \cdot \frac{12}{m} \frac{12}{m} \cdot 1$
5. Inside diameter of well 2 06. 6. Volume of water in filter pack and well	in.				
7. Volume of water removed from well 5 8. Volume of water added (if any) 9. Source of water added	gal. gal.			mg/l mg/l	•
10. Analysis performed on water added? (If yes, attach results)	□ No	16. Well developed by First Name: Jodo Firm: Endeavor E	M	Last Name:	•
17. Additional comments on development:					
Name and Address of Facility Contact / Owner/Responsible Pa First Last Name: Linda Name: Van Gheem Pacility/Firm: Da Swamp, LLC		of my knowledge. Signature: Journal Name: Jby	rdan	f- Kawin	ne and correct to the best
City/State/Zip: Seymour WI 54165		Firm: Endea	avor Environm	ental Servic	es, Inc.

State of Wisconsin Department of Natural Resources Route to: W	atershed/Wastewater	Was	ste Manage	ement 🗍		WELL CONSTR	UCTIO
n -			ier 🔲 🔠		Form 4400-113A	Rev. 7-98	
Facility/Project Name	Local Grid Location of	Well □ N.		e. □ E.	Well Name		
DaSwamp Bar Facility License, Permit or Monitoring No. I	ocal Grid Origin	Cestimated: [T \ or W	ft. \ \f\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	MW-20	I No. DNR Well	ID No
	at.				V O 0 1 1	THO. DIVIN WEIL	III No.
Essilias ID					Data Well Install	ed	
ျှ				_ft. E. S/C/N		$\frac{0}{1} \frac{2}{m} \frac{1}{d} \frac{2}{d} \frac{1}{v} \frac{2}{v}$	1 8
Type of Well	ection Location of Wa	iste/Source	- OF	. 40 ØE	Well Installed By	n m d d y y y: Name (first, last)	and Fire
Well Code 11 / mw	NW _{1/4 of NW 1/4}	of Sec, 19,7	r, <u>4</u> 5 N	, R. <u>18</u> □ W	Mike	,,,	
	ocation of Well Relati u Upgradient	ve to Waste/So s 🔲 Sideg	ource G	lov, Lot Number	······································		***********
ا با ا	d Downgradient		1		Sam's Well	Drilling	
	. 55 ft. MSL -			Cap and lock?		☐ Yes	□ No
801	28 ft. MSL	——————————————————————————————————————	2. F	Protective cover p	ipe:		
B. Well casing, top elevation	Zo In Mor		8	. Inside diameter	;	_	in.
C. Land surface elevation	ft. MSL _		b	. Length:		h-ma	ft.
	**************************************	631 133	DATE:	. Material:		Steel	□ 04
D. Surface seal, bottom ft. MSL	or II.	3.11 1.38				Other	
12. USCS classification of soil near screen:	A 195	30 Y 1 1 Y 02	A. 103501 Q	l. Additional prot	ection?	☐ Yes	□ No
			. \	If yes, describe	<u> </u>	 ,	
SM□SC□ ML⊠ MH□ CL	и сни		/ / , , ,	urface scal:		Bentonite	⊠ 30
Bedrock □		XX XX	./ 3, 5	ullace scal.		Concrete	□ 01
13. Sieve analysis performed?	s 🗆 No		``	***************************************		Other I	
· · · · · · · · · · · · · · · · · · ·	y □ 5 0		4. N	Material between	well casing and pro	otective pipe:	******
Hollow Stem Auge	ж 🛛 41					Bentonite I	XI 30
Othe	er 🗆 📜 📗					Other [
45 75 474 6 44 5 77 4 6 78				nnular space sea		Chipped Bentonite I	
	ir 🗆 01					tonite-sand slurry [
Drilling Mud □ 0 3 Nor	ne ≥ 99					Bentonite slurry	
16. Drilling additives used?	s 🐼 No		d			nite-cement grout [□ 50
	, 1281 140	 	e		volume added for	•	
Describe			f.	How installed:		Tremie [
17. Source of water (attach analysis, if require	·4).					Tremie pumped [
as 10	w).				_	Gravity I	
				entonite seal:		entonite granules [
- A 1107			, b.	111/4 in		Bentonite chips L	
E. Bentonite seal, top ft. MSL of	»r II.		/ c.			Other [⊐ 🎇
17 17		 	/ 7. F	ine sand material	: Manufacturer, p	roduct name & me	esh size
F. Fine sand, top ft. MSL o	ип	VØ Ø/	/		•		
0 mg 4 3401 m	or ft.		a.				
G. Filter pack, top ft. MSL c	" Ili					ft ³	
H. Screen joint, top 879, 28ft. MSL c	3 д		∠ 8. Fi	ilter pack materia	l: Manufacturer, p	product name & m	esh size
H. Screen joint, top \$79, 25 ft. MSL c	/I II.		a				
I. Well bottom \$69.28ft. MSL o	13.0			Volume added	Direct sheeded DV	ft ³ 'C schedule 40 [- 41
I. Well bottom £69.21 ft. MSL of	" Tr		9. W	ell casing:			
J. Filter pack, bottom ft. MSL o	A	イ富ナ			riush inreaded Pv	C schedule 80	
1. Pilier pack, boltom It wish o	r		**************************************		PVC	_ Other D] 🌉
K. Borchole, bottom & F68, 28 ft. MSL o	_ 13.5 _{ft}			creen material: _	PVC	—	- BB
K. Holenote, bottom V VOI 2 W It WISE o	,		a.	Screen type:		Factory cut	
L. Borehole, diameter6.25in.	•				,	Continuous slot	
L. Borehole, diameter in.		\				Other []
M. O.D. well easing 2.37 in.		`	`	Manufacturer Slot size:			01 _ in.
M. O,D, well easing $\frac{2.57}{2}$ in.			c.	Slotted length:		_	Q_ft.
N. I.D. well casing 2.06 in.			1	•	elow filter pack):	None D	
N. I.D. well casing in.			11,02	revitti ilistetist ((www.hiici pack):	Other [
I hereby certify that the information on this for	m is true and correct to	n the best of m	v knowled	lec.		- Outor L	- 25,55
Signature /	Firm	- 210 0001 O1 III	7	. D		***************************************	
Words MI		Endeavor En	vironmen	tal Services, Ind).		
y					···		

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

Sta	tc of	Wisco	nsin	
Dc	partm	ent of	Natural	Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

			Rou		/astewater												
				Komodianon	revolopment	Ou.		la						Dage	; <u>1</u>	of	1
Pacility	/Proj	ct Na		0			Licen	se/Per	mit/M	onitor	ng Nu	nber	Borin	g Num	ber	01	
Boring	Drille	d By:		Swamp e of crew chief (first, l	ast) and Firm		Date 1	Drillin	g Start	ed	Date	Drillin	Com	pleted	Drillir	ig Mei	hod
First No.	me: N	ike		Last Name:					/ <u>2</u> 0			$\frac{1}{d} \frac{2}{d}$			1		tem auger
WI Uni	que V			DNR Well ID No.	Well Name				Water	Level		ce Elev	ation				ameter
V O (rid C	rigin	(e:	stimated: or Bor	MW-20		<u> </u>		Feet N		Local	Grid I	_Feet		6	.25 i	nches
State Pla	ane _			N,N,N,	E		Lo	_at	0	~	□N					D E	
Facility	ID	344	_ 1/4 01	County		Co	unty C	ode	Civil	Town	Feet S _ /City/ or Village				Feet W		
F	1_ 1		Т	Shawa	no	L	5	9		T	<u>Maple</u>	Grove		D			
Samp		ম	et surface)	Soil/Roc	k Description							4)		Prope	rues		
₽ 6.	n Att	Coun	in Fe	And Geole	ogic Origin For Major Unit			S	U	l g	le	cssiv	ᆲ		ity		ents
Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Lacin	wiajor Omi			usc	Graphic	Well	PID/FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
								<u> </u>				0.7					
				Earth Drill / no s	oil sample												
	i																
ŀ																	
ļ	1		12.5	Weathered Bed	rock			!									
	I		13.5	0 44. 6	Amailas				}	1							
!			פילו	Bottom of	bering												
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I haraba		for the	t tha	nformation on this fo	urm is true and co	rrec	1.10.15	a bacı	of m	y kno	wlada]	1		
Signature		,	/	a l	an is a go and co		irm					tal Sei					

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

MONITORING WELL DEVELOPMENT Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewa	ater	Waste Management
Remediation/Redeve	elopment	-
• "	County Name	
Da Swamp Bar		awano County MW-20
Facility License, Permit or Monitoring Number	County Code <u>5</u> 9	Wis. Unique Well Number VO011 DNR Well ID Number LO011
1. Can this well be purged dry?	□ No	Before Development After Development 11. Depth to Water
2. Well development method surged with bailer and bailed		(from top of well casing) a. $3 \cdot 65$ ft. Date b. $03 \cdot 13 \cdot 20 \cdot 8$ ft. $03 \cdot 13 \cdot 20 \cdot 8$ ft. $03 \cdot 13 \cdot 20 \cdot 8$ ft.
surged with block, bailed and pumped ☐ 70 compressed air ☐ 20 bailed only ☐ 10 pumped only ☐ 51		Time c. 12: 15 a.m. 12: 25 a.m. 12. Sediment in well inches inches bottom
pumped slowly		13. Water clarity Clear ☐ 10 Clear ☐ 20 Turbid ☑ 15 Turbid ☐ 25
3. Time spent developing well	_	(Describe) AD Golor (Describe)
5. Inside diameter of well		
6. Volume of water in filter pack and well casing 7. Volume of water removed from well 5		Fill in if drilling fluids were used and well is at solid waste facility: 14. Total suspended mg/l mg/l
8. Volume of water added (if any)	_ gal.	solids
9. Source of water added		15. COD mg/l mg/l
10. Analysis performed on water added? Yes (If yes, attach results)	□ No	16. Well developed by: Name (first, last) and Firm First Name: Jordan Last Name: Kawfwan Firm: Endeavor Environmental Services, Inc.
17. Additional comments on development:		,
Name and Address of Facility Contact/Owner/Responsible Pa First Linda Last Name: Van Gheem	arty	I hereby certify that the above information is true and correct to the best of my knowledge.
Facility/Firm: Da Swamp, LLC		Signature: Ind. III
Street: W2746 Half Mile Road		Print Name: Jordan Kawfman
City/State/Zip: Seymour WI 54165		Firm: Endeavor Environmental Services, Inc.



APPENDIX C

Soil Sample Laboratory Analytical Reports

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK ENDEAVOR ENV. SERVICES, INC. 2280-B SALSCHEIDER CT GREEN BAY, WI 54313

Report Date 26-Dec-13

Project Name DA SWAMP Invoice # E26277

Project # P101399.40

Lab Code 5026277A Sample ID GP-1 S-2 Sample Matrix Soil

Sample Date 12/12/2013

Dampie Date 12	4 12/2013										
]	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent	8	86.7	%			1	5021		12/16/2013	MDK	1
Organic											
PVOC + Naphthale	ene										
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	Į
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene		< 25	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene		< 25	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	I	GRO95/8021		12/18/2013	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name Project # DA SWAMP P101399.40

Lab Code 5026277B GP-1 S-3

Sample Matrix Soil 12/12/2013

Sample Date	12/12/2013										<i>c</i> .
-		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Cananal											
General											
General						4	5001		12/16/2013	MDK	i
Solids Percent		87.4	%			1	5021		12/10/2013	MIDIC	1
Inorganic											
Metals											
		0.35 "J"	mg/Kg	0.3	0.96	5 [6010B		12/20/2013	CWT	1
Lead, Total		U,3,3 J	mg/r.g	0.0	0.00	•					
Organic											
PAH SIM											
Acenaphthene		< 21.8	ug/kg	21.8			M8270D	12/16/2013	12/17/2013	MDK	I
Acenaphthylene		< 19.2	ug/kg	19.2			M8270D	12/16/2013	12/17/2013	MDK	1 1
Anthracene		< 19.5	ug/kg	19.5			M8270D	12/16/2013	12/17/2013	MDK MDK	1
Benzo(a)anthraceno	e	< 22.9	ug/kg	22.9			M8270D	12/16/2013 12/16/2013	12/17/2013 12/17/2013	MDK	1
Benzo(a)pyrene		< 17.4	ug/kg	17.4			M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthe		< 19.6	ug/kg	19.6			M8270D M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)peryler		< 22.7	ug/kg	22.7			M8270D M8270D	12/16/2013	12/17/2013	MDK	ì
Benzo(k)fluoranthe	ne	< 21.6	ug/kg	21.6 18.1			M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene		< 18.1	ug/kg ug/le∝	22.3			M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthra	cene	< 22.3 < 21.1	ug/kg ug/kg	21.1			M8270D	12/16/2013	12/17/2013	MDK	I
Fluoranthene		< 22.2	ug/kg ug/kg	22.2			M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene		< 23.9	ug/kg	23.9			M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)py: 1-Methyl naphthale		< 20.7	ug/kg	20.7			M8270D	12/16/2013	12/17/2013	MDK	i
2-Methyl naphthale		< 20.6	ug/kg	20.6			M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	,110	< 22.1	ug/kg	22.1		1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene		< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene		< 23.1	ug/kg	23.1	73.6	5 1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's											
		< 9.2	ug/kg	9,2	29) 1	8260B		12/19/2013	CJR	1
Benzene		< 13	ug/kg	13			8260B		12/19/2013	CJR	1
Bromobenzene Bromodichloromet	ione	< 27	ug/kg	27			8260B		12/19/2013	CJR	1
Bromoform	iaic	< 30	ug/kg	30		1	8260B		12/19/2013	CJR	1
tert-Butylbenzene		< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene		< 41	ug/kg	41	132	1	8260B		12/19/2013	CJR	1
n-Butylbenzene		< 26	ug/kg	26	82	2 1	8260B		12/19/2013	CJR	1
Carbon Tetrachloric	łe	< 25	ug/kg	25	79	1	8260B		12/19/2013	CJR	1
Chlorobenzene		< 16	ug/kg	16			8260B		12/19/2013	CJR CJR	1 1
Chloroethane		< 42	ug/kg	42			8260B		12/19/2013	CJR CJR	I I
Chloroform		< 49	ug/kg	49			8260B		12/19/2013 12/19/2013	CJR	1
Chloromethane		< 181	ug/kg	181			8260B		12/19/2013	CJR	I I
2-Chlorotoluene		< 16	ug/kg	16			8260B 8260B		12/19/2013	CJR	ì
4-Chlorotoluene		< 14	ug/kg "	14			8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chic		< 48	ug/kg	48 14			8260B		12/19/2013	СJR	1
Dibromochlorometh		< 14	ug/kg	33			8260B		12/19/2013	CJR	1
1,4-Dichlorobenzen		<33 <30	ug/kg ug/kg	30			8260B		12/19/2013	CJR	i
1,3-Dichlorobenzen		< 38	ug/kg ug/kg	38			8260B		12/19/2013	CJR	1
1,2-Dichlorobenzen		< 57	ug/kg	57			8260B		12/19/2013	CJR	1
Dichlorodifluorome		< 36	ug/kg	36			8260B		12/19/2013	CJR	I
1,2-Dichloroethane 1,1-Dichloroethane		< 19	ug/kg	19			8260B		12/19/2013	CJR	1
1,1-Dichloroethene		< 21	ug/kg	21			8260B		12/19/2013	CJR	I
cis-1,2-Dichloroeth	ene	< 24	ug/kg	24			8260B		12/19/2013	CJR	1
trans-1,2-Dichloroe		< 29	ug/kg	29		1	8260B		12/19/2013	CJR	L
1,2-Dichloropropan		< 9.5	ug/kg	9.5	30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropan		< 46	ug/kg	46			8260B		12/19/2013	CJR	1
1,3-Dichloropropan		< 21	ug/kg	21	68		8260B		12/19/2013	CJR	Į,
Di-isopropyl ether		< 1!	ug/kg	11			8260B		12/19/2013	CJR	1
EDB (1,2-Dibromo	ethane)	< 20	ug/kg	20	64	. 1	8260B		12/19/2013	СЛ	ŧ

Project Name	DA SWAMP
Project #	P101399.40
Lab Code	5026277B
Sample ID	GP-1 S-3
Sample Matrix	Soil
Sample Date	12/12/2013
· .	

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 10	ug/kg	10		i	8260B		12/19/2013	CIR	1
Hexachlorobutadiene	< 95	ug/kg	95	304	l	8260B		12/19/2013	CJR	1
Isopropyibenzene	< 25	ug/kg	25	80	ı	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	l
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	I	8260B		12/19/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/19/2013	СЛR	I
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	I
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	l	8260B		12/19/2013	CJR	1
1,2,3-Trichforobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
I,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	СЖ	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR.	i .
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	< 26	ug/kg	26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	i
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	CJR	l .
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	99	Rec %			1	8260B		12/19/2013	CJR	. 1
SUR - Dibromofluoromethane	100	Rec %			1	8260B		12/19/2013	CJR	I.
SUR - Toluene-d8	104	Rec %			1	8260B		12/19/2013	CJR	1

 Lab Code
 5026277C

 Sample ID
 GP-1 S-4

 Sample Matrix
 Soil

 Sample Date
 12/12/2013

Sample Date 14/1		Result	Unit	LOD	LOQ I)il	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		88.0	%			I	5021		12/16/2013	MDK	1
Organic								•			
PVOC + Naphthalen	e										
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	СJR	1
Methyl tert-butyl ether (M	TRF)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene	(11.1)	< 25	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	İ
		< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
Toluene		< 25	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene		< 25	ug/kg	9.3	.30	1	GRO95/8021		12/18/2013	CJR	I
1,3,5-Trimethylbenzene				16	50	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene		< 50	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	I
o-Xylene		< 25	ug/kg	10	32	1	GRO3376021				

Project Name Project # DA SWAMP Pl01399.40

Lab Code 5026277D
Sample ID GP-2 S-2
Sample Matrix Soil
Sample Date 12/12/2013

Sample Date	12/12/2013								D D (4 T 4	C 1-
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
C1											
General											
General									12/16/2013	MDK	1
Solids Percent		83.8	%			1	5021		12/10/2013	MDK	1
Inorganic											
Metals											
		a a = #711	// ·	0.2	0.96	5 1	6010B		12/20/2013	CWT	1
Lead, Total		0.93 "J"	mg/Kg	0.3	0.90	, ,	00100		12		
Organic											
PAH SIM											
		< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthene Acenaphthylene		< 19.2	ug/kg	19.2			M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene		< 19.5	ug/kg	19.5			M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene		< 22.9	ug/kg	22.9		1	M8270D	12/16/2013	12/17/2013	MDK	l
Benzo(a)pyrene		< 17.4	ug/kg	17.4		1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranther	ne	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene		< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	I
Benzo(k)fluoranther		< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene		< 18.1	ug/kg	18.1	57.3	7 [M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthrac	ene	< 22,3	ug/kg	22.3	71	. 1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene		< 21.1	ug/kg	21.1	67.2	! !	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene		< 22.2	ug/kg	22.2	70.0	i 1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyro	ene	< 23.9	ug/kg	23.9	76.1	. 1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthaler		< 20.7	ug/kg	20.7	65.8	3 1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthaler		< 20,6	ug/kg	20.6	65.4		M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene		< 22.1	ug/kg	22.1	70.2		M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene		< 22.4	ug/kg	22.4			M8270D	12/16/2013	12/17/2013	MDK	1 1
Pyrene		< 23.1	ug/kg	23.1	73.6	5 l	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's											
Benzene		< 9.2	ug/kg	9.2	29	1 (8260B		12/19/2013	CJR	1
Bromobenzene		< 13	ug/kg	13	40) 1	8260B		12/19/2013	CJR	1
Bromodichlorometh	ane	< 27	ug/kg	27	85	5 1	8260B		12/19/2013	CJR	1
Bromoform		< 30	ug/kg	30	95	5 1	8260B		12/19/2013	СJR	1
tert-Butylbenzene		< 20	ug/kg	20	64	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene		< 41	ug/kg	41	132	2 1	8260B		12/19/2013	CIR	i
n-Butylbenzene		< 26	ug/kg	26	82	1	8260B		12/19/2013	CJR	1
Carbon Tetrachlorid	e	< 25	ug/kg	25	79) 1	8260B		12/19/2013	CJR	.1
Chlorobenzene		< 16	ug/kg	16	52	2 1	8260B		12/19/2013	CJR	1
Chloroethane		< 42	ug/kg	42	133		8260B		12/19/2013	CJR	1
Chloroform		< 49	ug/kg	49			8260B		12/19/2013	CJR	ĺ
Chloromethane		< 181	ug/kg	181			8260B		12/19/2013	CJR	1
2-Chlorotoluene		< 16	ug/kg	16			8260B		12/19/2013	CJR CJR	ſ
4-Chlorotoluene		< 14	ug/kg	14			8260B		12/19/2013 12/19/2013	CJR CJR	1
1,2-Dibromo-3-chlor	ropropane	< 48	ug/kg	48			8260B		12/19/2013	CJR CJR	1
Dibromochlorometh	ane	< 14	ug/kg	14			8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene	;	< 33	ug/kg	33			8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	;	< 30	ug/kg	30			8260B		12/19/2013	CJR	1
1,2-Dichlorobenzene		< 38	ug/kg	38			8260B		12/19/2013	CJR	•
Dichlorodifluoromet	hane	< 57	ug/kg	57			8260B		12/19/2013	CJR	1
1,2-Dichloroethane		< 36	ug/kg	36			8260B		12/19/2013	CJR	1
1,1-Dichloroethane		< 19	ug/kg	19			8260B		12/19/2013	CJR	i
I, I-Dichloroethene		< 21	ug/kg	21			8260B 8260B		12/19/2013	CJR	1
cis-1,2-Dichloroethe		< 24	ug/kg	24					12/19/2013	CJR	1
trans-1,2-Dichloroeti		< 29	ug/kg	29			8260B 8260B		12/19/2013	CJR.	1
1,2-Dichloropropane		< 9.5	ug/kg	9.5			8260B 8260B		12/19/2013	CJR	1
2,2-Dichloropropane		< 46	ug/kg	46			8260B		12/19/2013	СЛ	1
1,3-Dichloropropane	;	< 21	ug/kg	21			8260B		12/19/2013	CJR	i .
Di-isopropyl ether		< 11	ug/kg	11 20			8260B		12/19/2013	CJR	1
EDB (1,2-Dibromoe	thane)	< 20	ug/kg	21,	. 02	r 1	02000				

Project Name DA SWAMP Project # P101399.40

Lab Code 5026277D Sample ID GP-2 S-2 Sample Matrix Soil

Sample Date 12/12/2013

	Res	ult	Unit	LOD	LOQ	I)il	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene		< 10	u <i>g</i> /kg	10) 3	3	1	8260B		12/19/2013	CJR	1
Hexachlorobutadiene		< 95	ug/kg	95	30	4	1	8260B		12/19/2013	СJR	1
Isopropylbenzene		< 25	ug/kg	25	. 8	0	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene		< 31	ug/kg	31	9	8	1	8260B		12/19/2013	CJR	1
Methylene chloride		< 57	ug/kg	57	18	2	Į	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)		< 30	ug/kg	30	9	б	1	8260B		12/19/2013	CJR	1
Naphthalene		< 114	ug/kg	114	36	3	1	8260B		12/19/2013	СJR	1
n-Propylbenzene		< 24	ug/kg	24	7	5	l	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane		< 12	ug/kg	12	3	8	ı	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane		< 23	ug/kg	23	7	4	1	8260B		12/19/2013	CJR	1
Tetrachloroethene		< 49	ug/kg	49	15	7	1	8260B		12/19/2013	CJR	2
Toluene		< 20	ug/kg	20	6	5	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene		< 79	ug/kg	79	25	1	1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenzene		< 129	ug/kg	129	41	Į	1	8260B		12/19/2013	CJR	l
1,1,1-Trichloroethane		< 38	ug/kg	38	12	0	1	8260B		12/19/2013	СJR	1
1,1,2-Triohloroethane		< 23	ug/kg	23	7-	4	I	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)		< 28	ug/kg	28	8	3	1	8260B		12/19/2013	CJR	1
Trichlorofluoromethane		< 86	ug/kg	86	273	3	l	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene		< 26	ug/kg	26	8	l	1	8260B		12/19/2013	CJR	l
1,3,5-Trimethylbenzene		< 26	ug/kg	26	84	ŧ	1	8260B		12/19/2013	CJR	1
Vinyl Chloride		< 21	ug/kg	21	66	ī.	1	8260B		12/19/2013	CJR	1
m&p-Xylene		< 68	ug/kg	68	216	5	1	8260B		12/19/2013	CJR	t
o-Xylene		< 31	ug/kg	31	98	}	I	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	101		REC %				1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	103		Rec %				1	8260B		12/19/2013	CJR	1
SUR - Dibromofluoromethane	103		Rec %				1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	102		Rec %				1	8260B		12/19/2013	CJR	1

Project Name Project # DA SWAMP P101399.40

Lab Code Sample ID GP-2 S-4

Sample Matrix Soil 12/12/2013

	Result	Unit	LOD	LOQ I	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			Į	5021		12/16/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	I	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	l
Fluoranthene	< 21.1	ug/kg	21.1	67.2	I	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-ed)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	СJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	1.8	26	1	GRO95/8021		12/18/2013	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name Project # DA SWAMP P101399.40

Lab Code 5026277F GP-3 S-2 Sample Matrix Soil 12/12/2013

Sample Date	12/12/2013												
•		Resu	lt	Unit	LOD	LOC	Q Q	iI	Method	Ext Date	Run Date	Analyst	Code
General													
General													
		84.3		%				1	5021		12/16/2013	MDK	1
Solids Percent		04.3		70									
Organic													
PAH SIM										12/1//2013	12/17/2013	MDK	i
Acenaphthene			< 21.8	ug/kg	21.8		9.3	ı.	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene			< 19.2	ug/kg	19.2		0.9 2.1	1 1	M8270D M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene			< 19.5	ug/kg	19.5 22.9		2.1 2.9	į	M8270D M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthrucene	e		< 22.9	ug/kg	17.4		z.9 5.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene			< 17.4 < 19.6	ug/kg ug/kg	19.6		2.3	i	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthe		71 "J"	× 19.0	ug/kg ug/kg	22.7		2.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)peryler Benzo(k)fluoranthe			< 21.6	ug/kg	21.6		8.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene			< 18.1	ug/kg	18.1		7.7	I	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthra	cene		< 22.3	ug/kg	22.3		71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene			< 21.1	ug/kg	21.1	6	7.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene			< 22.2	ug/kg	22.2		0.6	i	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-ed)py	rene		< 23.9	ug/kg	23.9		ნ.1	1	M8270D	12/16/2013	12/17/2013	MDK	1 1
1-Methyl naphthale	ne	89		ug/kg	20.7		5.8	1	M8270D	12/16/2013	12/17/2013 12/17/2013	MDK MDK	1
2-Methyl naphthale	ene	158		ug/kg	20.6		5.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene		550		ug/kg	22.1		0.2	1	M8270D	12/16/2013 12/16/2013	12/17/2013	MDK	ì
Phenanthrene			< 22.4	ug/kg	22.4		1.1	1	M8270D M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene			< 23.1	ug/kg	23.1	7.	3.6	I	M8270D	12/10/2013	12/1//2015	111272	•
VOC's											10/10/2013	CJR	1
Benzene		620		ug/kg	9.2		29	1	8260B		12/19/2013	CJR	1 1
Bromobenzene			< 13	ug/kg	13		40	1	8260B		12/19/2013	CJR	1
Bromodichloromet	iane		< 27	ug/kg	27		85	1	8260B		12/19/2013	CJR	1
Bromoform			< 30	ug/kg	30		95	1	8260B 8260B		12/19/2013	CJR	Ī
tert-Butylbenzene			< 20	ug/kg	20		64 32	1 1	8260B		12/19/2013	CJR	1
sec-Butylbenzene		340		ug/kg	41 26		32 82	1	8260B		12/19/2013	СJR	1
n-Butylbenzene	1	1780	< 25	ug/kg ug/kg	25		79	1	8260B		12/19/2013	CJR	1
Carbon Tetrachlorie	ae		< 16	ug/kg	16		52	i	8260B		12/19/2013	CJR	1
Chiorobenzene Chloroethane			< 42	ug/kg	42		33	1	8260B		12/19/2013	CJR	I
Chloroform			< 49	ug/kg	49	ı	57	1	8260B		12/19/2013	CJR	1
Chloromethane			< 181	ug/kg	181	5	77	1	8260B		12/19/2013	CJR	1
2-Chlorotoluene			< 16	ug/kg	16		52	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene			< 14	ug/kg	14		43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chk	propropane		< 48	ug/kg	48		54	1	8260B		12/19/2013	CJR	1 1
Dibromochloromet	hane	,	< 14	ug/kg	14		45	1	8260B		12/19/2013 12/19/2013	CJR CJR	1
1,4-Dichlorobenzer	ie		< 33	ug/kg	33		.03	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzen			< 30	ug/kg	30		95	1	8260B 8260B		12/19/2013	CJR	1
1,2-Dichlorobenzer			< 38	ug/kg	38		22 82	1 1	8260B		12/19/2013	CJR	1
Dichlorodifluorome			< 57	ug/kg	57 36		14	1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane			< 36	ug/kg	19		60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane			< 19 < 21	ug/kg ug/kg	21		66	1	8260B		12/19/2013	СJR	1
1,1-Dichloroethene			< 24	ug/kg	24		77	1	8260B		12/19/2013	CJR	I
cis-1,2-Dichloroeth trans-1,2-Dichloroe			< 29	ug/kg	29		93	1	8260B		12/19/2013	CJR	1
1,2-Dichloropropan			< 9.5	ug/kg	9.5		30	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropan			< 46	ug/kg	46		48	1	8260B		12/19/2013	CJR	1
1,3-Dichloropropan			< 21	ug/kg	21		68	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether			< 11	ug/kg	11		34	1	8260B		12/19/2013	СJR	1
EDB (1,2-Dibromo	cthane)		< 20	ug/kg	20		64	1	8260B		12/19/2013	CJR	l 1
Ethylbenzene	•	3020		ug/kg	10		33	L	8260B		12/19/2013	CJR CJR	1 1
Hexachlorobutadies	ıc		< 95	ug/kg	95		04	1	8260B		12/19/2013	CJR CJR	I
Isopropylbenzene		450		ug/kg	25		80	1	8260B		12/19/2013 12/19/2013	CJR	1
p-Isopropyltoluene		173		ug/kg	31		98	l	8260B		1211712111	Ç-16	-

Project Name	DA SWAMP
Project #	P101399.40
Lab Code	5026277F
Sample ID	GP-3 S-2
Sample Matrix	s Soil
Sample Date	12/12/2013

Sample Date 12/12/201		** *.	T OD	100 1	D.O.	Art a 4 la a et	Ext Date	Run Date	Analyst	Code
	Result	Unit	LOD	LOQ 1	ווע	Method	Ext Date		CJR	1
Methylene chloride	< 57	ug/kg	57		1	8260B		12/19/2013		1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30		1	8260B		12/19/2013	СЛ	1
Naphthalene	830	ug/kg	114		1	8260B		12/19/2013	СJR	1
n-Propylbenzene	1600	ug/kg	24	75	1	8260B		12/19/2013	СЛ	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	СЛR	1
1,1,1,2-Tetrachioroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	175	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	СJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	l	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	i .
Trichloroethene (TCE)	< 28	ug/kg	28	88	ì	8260B		12/19/2013	СJR	l .
Trichlerofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	26700	ug/kg	260	810	10	8260B		12/22/2013	СЛ	Į.
1,3,5-Trimethylbenzene	9400	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	ŀ
m&p-Xylene	20200	ug/kg	68	216	1	8260B		12/19/2013	CJR	l
o-Xylene	8400	ug/kg	31	98	1	8260B		12/19/2013	CIR	L
SUR - 1,2-Dichloroethane-d4	97	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	Reo %			1	8260B		12/19/2013	CJR	ı
SUR - Dibromofluoromethane	104	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	100	Rec %			ı	8260B		12/19/2013	CJR	1

 Lab Code
 5026277G

 Sample ID
 GP-3 S-3

 Sample Matrix
 Soil

 Sample Date
 12/12/2013

-	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General									1 etite	•
Solids Percent	88.5	%			1	5021		12/16/2013	MDK	ı
Organic										
PVOC + Naphthalene										
Benzene	69	ug/kg	7,9	2.5	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	150	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
· •	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)		ug/kg	22			GRO95/8021		12/18/2013	CJR	1
Naphthalenc	259	-	8.4			GRO95/8021		12/18/2013	СJR	1
Toluene	< 25	ug/kg			_	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	1400	ug/kg	10					12/18/2013	CJR	1
1,3,5-Trimethylbenzene	540	ug/kg	9.3	30		GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	840	ug/kg	16	50)]	GRO95/8021			=	,
o-Xylene	430	ug/kg	10	32	: 1	GRO95/8021		12/18/2013	CJR	1

Project Name Project # DA SWAMP Pl01399.40

Lab Code Sample ID GP-3 S-4

Sample Matrix Soil 12/12/2013

Sample Date	12/12/2013											_	
•		Res	ult	Unit	LOD	LOQ	Di	l	Method	Ext Date	Run Date	Analyst	Code
General													
General									5021		12/16/2013	MDK	1
Solids Percent		87.9		%				1	3021		12/10/2015	1,11,011	•
Organic													
PAH SIM													
Acenaphthene			< 21.8	ug/kg	21.8	69	.3	1	M8270D	12/16/2013	12/17/2013	MDK	i
Acenaphthylene			< 19.2	ug/kg	19.2		.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene			< 19.5	ug/kg	19.5			1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	•		< 22.9	ug/kg	22.9			l	M8270D	12/16/2013	12/17/2013	MDK MDK	1 1
Benzo(a)pyrene			< 17.4	ug/kg	17.4			1	M8270D	12/16/2013	12/17/2013 12/17/2013	MDK	1
Benzo(b)fluoranthe	ne		< 19.6	ug/kg	19.6			i	M8270D	12/16/2013 12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)peryler			< 22.7	ug/kg	22.7			1	M8270D M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthe	ne		< 21.6	ug/kg	21.6 18.1			l I	M8270D M8270D	12/16/2013	12/17/2013	MDK	ī
Chrysene			< 18.1 < 22.3	ug/kg ug/kg	22.3		1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthra	cene		< 21.1	ug/kg ug/kg	21.1			i	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene			< 22.2	ug/kg	22.2			1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorenc Indeno(1,2,3-cd)py	FOR A		< 23.9	ug/kg	23.9			1	M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthale		36 °J'		ug/kg	20.7			1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthale		65 "J'		ug/kg	20.6		.4	1	M8270D	12/16/2013	12/17/2013	MDK	ı
Naphthalene		157		ug/kg	22.1	70	2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene			< 22.4	ug/kg	22.4	71	.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene			< 23.1	ug/kg	23.1	73	.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
VOC's													
Benzene		62		ug/kg	9.2	: 2	9	1	8260B		12/19/2013	CJR	1
Bromobenzene		٠ <u>ـ</u>	< 13	ug/kg	13		0	i	8260B		12/19/2013	CJR	1
Bromodichlorometl	iane		< 27	ug/kg	27	' 8	5	1	8260B		12/19/2013	CJR	1
Bromoform			< 30	ug/kg	30	9	5	1	8260B		12/19/2013	CJR	1
tert-Butylbenzene			< 20	ug/kg	20	• 6	4	1	8260B		12/19/2013	CJR	1
sec-Butylbenzene			< 41	ug/kg	41	13	2	1	8260B		12/19/2013	CJR	1
n-Butylbenzene		216		ug/kg	26		2	1	8260B		12/19/2013	CJR	I
Carbon Tetrachloric	le		< 25	ug/kg	25		9	I	8260B		12/19/2013	CJR CJR	1
Chlorobenzene			< 16	ug/kg	16		2	1	8260B		12/19/2013 12/19/2013	CJR	1 1
Chloroethane			< 42	ug/kg	42			1	8260B		12/19/2013	CJR CJR	1 .
Chloroform			< 49	ug/kg	49			1	8260B		12/19/2013	CJR	1 ,
Chloromethane			< 181	ug/kg	181			1	8260B 8260B		12/19/2013	CJR	1
2-Chlorotoluene			< 16	ug/kg	16		2 3	1	8260B		12/19/2013	CJR	1
4-Chlorotoluene			< 14	ug/kg	14 48			1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chle	•		< 48 < 14	ug/kg ug/kg	14		5	1	8260B		12/19/2013	СJR	1
Dibromochlorometl			< 33	ug/kg ug/kg	33			1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzen 1,3-Dichlorobenzen			< 30	ug/kg	30		5	1	8260B		12/19/2013	CJR	1
1,3-Dichlorobenzen			<38	ug/kg	38			1	8260B		12/19/2013	CJR	1
Dichlorodifluorome			< 57	ug/kg	57			1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane			< 36	ug/kg	36	- 11	4	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethane			< 19	ug/kg	19	6	0	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene			< 21	ug/kg	21	6	6	1	8260B		12/19/2013	CJR	1
cis-1,2-Dichloroeth	ene		< 24	ug/kg	24	. 7	7	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroe			< 29	ug/kg	29	9	3	1	8260B		12/19/2013	CJR	i .
1,2-Dichloropropan			< 9.5	ug/kg	9.5		0	1	8260B		12/19/2013	CJR	1
2,2-Dichloropropan	e		< 46	ug/kg	46			1	8260B		12/19/2013	CJR	1
1,3-Diehloropropan	e		< 21	ug/kg	21		8	1	8260B		12/19/2013	CJR	1
Di-isopropyl ether			< 11	ug/kg	11		4	l .	8260B		12/19/2013 12/19/2013	CJR CJR	1
EDB (1,2-Dibromo	ethane)		< 20	ug/kg	20		4	1	8260B		12/19/2013	СЛ	1
Ethylbenzene		171		ug/kg	10		3		8260B 8260B		12/19/2013	CJR	1
Hexachlorobutadicu	e	00 - "	< 95	ug/kg	95 25		4 0	I 1	8260B		12/19/2013	CJR	î
Isopropylbenzene		29.2 "		ug/kg	25 31		v 8	1	8260B		12/19/2013	CJR	ì
p-Isopropyltoluene			< 31	ug/kg	.,1	2	.,	•	22001				

 Project Name
 DA SWAMP

 Project #
 P101399.40

 Lab Code
 5026277H

Sample ID GP-3 S-4
Sample Matrix Soil
Sample Date 12/12/2013

	Result	Unit	LOD	LOQ I	liC	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/19/2013	CJR	1
Naphthalene	470	ug/kg	114	363	ı	8260B		12/19/2013	CJR	1
n-Propylbenzene	121	ug/kg	24	75	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	1	8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	I	8260B		12/19/2013	CJR	i
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	l
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	СJR	I
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	. 120	1	8260B		12/19/2013	СJR	I
1,1,2-Triohloroethane	< 23	ug/kg	23	74	1	8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	826 0 B		12/19/2013	CJR	l
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	2180	ug/kg	26	81	1	8260B		12/19/2013	СJR	1
1,3,5-Trimethylbenzene	730	ug/kg	26	84	1	8260B		12/19/2013	CJR	1
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/19/2013	СJR	1
m&p-Xylene 8	370	ug/kg	68	216	1	8260B		12/19/2013	CJR	1
o-Xylene	500	ug/kg	31	98	1	8260B		12/19/2013	CJR	I
	104	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Toluene-d8	103	Reo %			1	8260B	•	12/19/2013	СJR	I
	11	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichloroethane-d4 9	19	REC %			1	8260B		12/19/2013	CJR	1

 Lab Code
 50262771

 Sample ID
 GP-4 S-2

 Sample Matrix
 Soil

 Sample Date
 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.2	%			Ī	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	400	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene	1580	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	СJR	1
Naphthalene	650	ug/kg	22	70	1	GRO95/8021		12/18/2013	CJR	1
Toluene	1740	ug/kg	8,4	27	l	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	4600	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	1680	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	1
m&p-Xylene	6800	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	2320	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	1

Project Name Project # DA SWAMP P101399.40

Lab Code Sample ID GP-4 S-3

Sample Matrix Soil 12/12/2013

Sample Date	12/12/2013							_			<i>a</i>
-		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Canaral											
General											
General							E001		12/16/2013	MDK	l
Solids Percent		82.5	%			1	5021		12/10/2015	MDIL	•
Organic											
PAH SIM											
Acenaphthene		< 218	ug/kg	218	693	10	M8270D	12/16/2013	12/18/2013	MDK	1
Acenaphthylene		< 192	ug/kg	192	609	10	M8270D	12/16/2013	12/18/2013	MDK	I
Anthracene		< 195	ug/kg	195	621	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(a)anthracene	е	< 229	ug/kg	229	729	10	M8270D	12/16/2013	12/18/2013	MDK	1
Benzo(a)pyrene		< 174	ug/kg	174			M8270D	12/16/2013	12/18/2013	MDK MDK	i 1
Benzo(b)fluoranthe	me	< 196	ug/kg	196			M8270D	12/16/2013	12/18/2013 12/18/2013	MDK	i L
Benzo(g,h,i)peryler	ne e	< 227	ug/kg	227			M8270D	12/16/2013 12/16/2013	12/18/2013	MDK	Ī
Benzo(k)fluoranthe	ene	< 216	ug/kg	216			M8270D M8270D	12/16/2013	12/18/2013	MDK	1
Chrysene		< 181	ug/kg	181			M8270D M8270D	12/16/2013	12/18/2013	MDK	1
Dibenzo(a,h)anthra	cene	< 223	ug/kg	223 211			M8270D M8270D	12/16/2013	12/18/2013	MDK	1
Fluoranthene		< 211	ug/kg	222			M8270D	12/16/2013	12/18/2013	MDK	1
Fluorene		< 222 < 239	ug/kg ug/kg	239			M8270D	12/16/2013	12/18/2013	MDK	I
Indeno(1,2,3-ed)py		35000	ug/kg ug/kg	207			M8270D	12/16/2013	12/18/2013	MDK	1
I-Methyl naphthale		68000	ug/kg	206			M8270D	12/16/2013	12/18/2013	MDK	1
2-Methyl naphthale	ne	68000	ug/kg	221			M8270D	12/16/2013	12/18/2013	MDK	1
Naphthalene Phenanthrene		330 "J"	ug/kg	224	711	10	M8270D	12/16/2013	12/18/2013	MDK	1
Pyrene		< 231	ug/kg	231	736	10	M8270D	12/16/2013	12/18/2013	MDK	1
VOC's											
		9200	ug/kg	920	2900	100	8260B		12/20/2013	CJR	l
Benzene		< 1300	ug/kg	1300					12/20/2013	CJR	i
Bromobenzene Bromodichlorometl	hane	< 2700	ug/kg	2700			8260B		12/20/2013	CJR	1
Bromoform	iiano	< 3000	ug/kg	3000	9500	100	8260B		12/20/2013	CJR	1
tert-Butylbenzene		< 2000	ug/kg	2000	6400	100	8260B		12/20/2013	CJR	1
sec-Butylbenzene		22100	ug/kg	4100	13200	100			12/20/2013	CJR	1
n-Butylbenzene		134000	ug/kg	2600	8200	100	8260B		12/20/2013	CJR	1
Carbon Tetrachloric	de	< 2500	ug/kg	2500			8260B		12/20/2013	CJR	1 1
Chlorobenzene		< 1600	ug/kg	1600			8260B		12/20/2013	CJR CJR	23
Chloroethane		< 4200	ug/kg	4200			8260B		12/20/2013 12/20/2013	CJR	2J 1
Chloroform		< 4900	ug/kg	4900			8260B 8260B		12/20/2013	CJR	i
Chloromethane		< 18100	ug/kg	18100					12/20/2013	СЛ	Ī
2-Chlorotoluene		< 1600	ug/kg	1600 1400			8260B		12/20/2013	CJR	1
4-Chlorotoluene		< 1400	ug/kg ug/kg	4800					12/20/2013	CJR	I
1,2-Dibromo-3-chlo		< 4800 < 1400	ug/kg	1400			8260B		12/20/2013	CJR	1
Dibromochlorometh		< 3300	ug/kg	3300			8260B		12/20/2013	CJR	i
1,4-Dichlorobenzen 1,3-Dichlorobenzen		< 3000	ug/kg	3000			8260B		12/20/2013	СJR	1
1,2-Dichlorobenzen		< 3800	ug/kg	3800		100	8260B		12/20/2013	CJR	1
Dichlorodifluorome		< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	CJR	1
1.2-Dichloroethane		< 3600	ug/kg	3600	11400	100	8260B		12/20/2013	CJR	1
1,1-Dichloroethane		< 1900	ug/kg	1900	6000		8260B		12/20/2013	CJR	1
1,1-Dichloroethene		< 2100	ug/kg	2100	6600		8260B		12/20/2013	СJR	1
eis-1,2-Dichloroeth	ene	< 2400	ug/kg	2400			8260B		12/20/2013 12/20/2013	CJR СЛ	1
trans-1,2-Dichloroe	thene	< 2900	ug/kg	2900			8260B			CJR	1
1,2-Dichleropropan	e	< 950	ug/kg	950					12/20/2013 12/20/2013	CJR	1
2,2-Dichloropropan		< 4600	ug/kg	4600			8260B		12/20/2013	CJR	ì
1,3-Dichloropropan	e	< 2100	ug/kg	2100			8260B 8260B		12/20/2013	CJR	Ì
Di-isopropyl ether		< 1100	ug/kg	1100			8260B 8260B		12/20/2013	CJR	1
EDB (1,2-Dibromo	ethane)	< 2000	ug/kg	2000 1000			8260B		12/20/2013	CJR	1
Ethylbenzene		180000 < 9500	ug/kg ug/kg	9500			8260B		12/20/2013	CJR	1
Hexachlorobutadien	1e	< 9500 25000	ug/kg ug/kg	2500			8260B		12/20/2013	CJR	1
Isopropylbenzene		10100	ug/kg ug/kg	3100			8260B		12/20/2013	CJR	1
p-Isopropyltoluene		10100	- O - O		- *						

Project Name DA SWAMP Project # P101399.40

 Lab Code
 5026277J

 Sample ID
 GP-4 S-3

 Sample Matrix
 Soil

 Sample Date
 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene ohloride	< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	СJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		12/20/2013	CJR	1
Naphthalene	148000	ug/kg	11400	36300	100	8260B		12/20/2013	CJR	23
n-Propylbenzene	124000	ug/kg	2400	7500	100	8260B		12/20/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		12/20/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Tetrachloroethene	< 4900	ug/kg	4900	15700	100	8260B		12/20/2013	CJR	1
Toluene	163000	ug/kg	2000	6500	100	8260B		12/20/2013	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		12/20/2013	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		12/20/2013	CJR	23
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		12/20/2013	CJR	I
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Trichloroethene (TCE)	< 2800	ug/kg	2800	8800	100	8260B		12/20/2013	СJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		12/20/2013	CJR	1
1,2,4-Trimethylbenzene	810000	ug/kg	2600	8100	100	8260B		12/20/2013	CJR	1
1,3,5-Trimethylbenzene	263000	ug/kg	2600	8400	100	8260B		12/20/2013	CJR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	8260B		12/20/2013	СJR	1
m&p-Xylene	740000	ug/kg	6800	21600	100	8260B		12/20/2013	CJR	ı
o-Xylene	263000	ug/kg	3100	9800	100	8260B		12/20/2013	CIR	1
SUR - 1,2-Dichloroethane-d4	84	REC %			100	8260B		12/20/2013	CJR	1
SUR - Toluene-d8	106	Rec %			100	8260B		12/20/2013	CJR	1
SUR - 4-Bromofluorobenzene	116	Rec %			100	8260B		12/20/2013	CJR	1
SUR - Dibromofluoromethane	98	Reo %			100	8260B		12/20/2013	СJR	1

Lab Code5026277KSample IDGP-4 S-4Sample MatrixSoilSample Date12/12/2013

*	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		12/16/2013	MDK	1
Organic										
PVOC + Naphthalene										
Benzene	4400	ug/kg	79	250	10	GRO95/8021		12/19/2013	CJR	1
Ethylbenzene	32000	ug/kg	77	250	10	GRO95/8021		12/19/2013	СJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		12/19/2013	CJR	1
Naphthalene	16500	ug/kg	220	700	10	GRO95/8021		12/19/2013	CJR	1
Toluene	34000	ug/kg	84	270	10	GRO95/8021		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	83000	ug/kg	100	330	10	GRO95/8021		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	32000	ug/kg	93	300	10	GRO95/8021		12/19/2013	CJR	1
m&p-Xylene	121000	ug/kg	160	500	10	GRO95/8021		12/19/2013	CJR	1
o-Xylene	41000	ug/kg	100	320	10	GRO95/8021		12/19/2013	CJR	1

Project Name DA SWAMP Project # P101399.40

Lab Code Sample ID 5026277L GP-5 S-1

Sample Matrix Soil

Sample Date

12/12/2013

Sumpte Date	12/12/2015	,									
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		85.8	%			1	5021		12/16/2013	MDK	1
Organic											
PVOC + Naph	thalene										
Benzene		50000	ug/kg	79	250	10	GRO95/8021		12/19/2013	CJR	1
Ethylbenzene		95000	ug/kg	77	250	10	GRO95/8021		12/19/2013	СJR	1
Methyl tert-butyl et	her (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		12/19/2013	CJR	1
Naphthalene		32000	ug/kg	220	700	10	GRO95/8021		12/19/2013	CJR	l
Toluene		283000	ug/kg	84	270	10	GRO95/8021		12/19/2013	CJR	1
1,2,4-Trimethylben	zene	191000	ug/kg	100	330	10	GRO95/8021		12/19/2013	CJR	1
1,3,5-Trimethylben	zene	76000	ug/kg	93	300	10	GRO95/8021		12/19/2013	CJR	1
m&p-Xylene		316000	ug/kg	160	500	10	GRO95/8021		12/19/2013	CJR	1
o-Xylene		109000	ug/kg	100	320	10	GRO95/8021		12/19/2013	CJR	1

Project Name Project # DA SWAMP Pl01399.40

Lab Code Sample ID GP-5 S-2

Sample Matrix Soil 12/12/2013

General Conceral Saide Paecent	Sample Date	12/12/2013								D D (C- 1-
Centeral Sadia Precent S			Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Centeral Sadia Precent S	C't											
Solido Precent												
PAH SIM	General							500d		12/16/2013	MDK	1
A-mentphilither	Solids Percent		86.3	%			1	5021		12/10/2015	MIN	•
A-mentphilither	Organic											
Acensphilylane												
Acemphilylene			~ 126	uallea	436	1386	20	M8270D	12/16/2013	12/18/2013	MDK	1
Antheneeme	•								12/16/2013	12/18/2013	MDK	I
Bearo(a)quivrene	• •								12/16/2013	12/18/2013	MDK	1
Bearso(a)-private								M8270D	12/16/2013	12/18/2013	MDK	1
Bearzo(f)priorumitiene	, ,	е						M8270D	12/16/2013		MDK	i
Selection Sele	* * * * *	****							12/16/2013	12/18/2013	MDK	1
Beacocolinamenterial 4.432 ug/kg 432 1376 20 M8270D 12/16/2013 12/18/2013 MDK 1	• •							M8270D	12/16/2013	12/18/2013		I
Chrysene	-							M8270D	12/16/2013	12/18/2013		
Dibenzo(a,b)anthrisene	, ,	-110		_	362	1154	20	M8270D	12/16/2013	12/18/2013		I
Phoconstriance		icene			446	1420	20	M8270D	12/16/2013			
Phuerene		CONO		_	422	1344	20	M8270D	12/16/2013			
Indenot(1,2,1-od)pyrene					444	1412	20	M8270D	12/16/2013			
1-Medity raphthalene		rene			478	1522	20	M8270D	12/16/2013			
2-Metlyt naphthalene 34000			19600		414	1316	20	M8270D	12/16/2013			
Naphthalene 30700	• •				412	1308	20		12/16/2013			
Phenanthrene					442	1404	20	M8270D				
Pyrane	•		< 448	ug/kg	448	1422	20	M8270D				
Benzene			< 462	ug/kg	462	1472	20	M8270D	12/16/2013	12/18/2013	MDK	ı
Benzene	•											
Bromboenzene < 1300			99000	na/ka	920	2900	100	8260B		12/20/2013	CJR	1
Bromodibloromethane										12/20/2013	CJR	1
Bromoform < 3000		hama							,	12/20/2013	CJR	ı
Secondo-Chimode		Hane						8260B		12/20/2013	CJR	1
See-Butylbenzene							100	8260B		12/20/2013	CJR	1
Reputy December Reputy Dec	•							8260B		12/20/2013		
Carbon Tetraehloride	•						100	8260B		12/20/2013		1
Chlorobenzene	•	đe			2500	7900	100	8260B		12/20/2013		
Chloroethane					1600	5200	100	8260B				
Chloroform					4200	13300	100	8260B				
Chloromethane			< 4900	-	4900	15700	100	8260B				
2-Chlorotoluene			< 18100	ug/kg	18100	57700	100	8260B				
4-Chlorotoluene < 1400 ug/kg 1400 4300 100 8260B 12/20/2013 CJR 1 1,2-Dibromo-3-chloropropane < 4800 ug/kg 4800 15400 100 8260B 12/20/2013 CJR 1 Dibromochloromethane < 1400 ug/kg 1400 4500 100 8260B 12/20/2013 CJR 1 1,4-Dichlorobenzene < 3300 ug/kg 3300 10300 100 8260B 12/20/2013 CJR 1 1,3-Dichlorobenzene < 3000 ug/kg 3000 9500 100 8260B 12/20/2013 CJR 1 1,2-Dichlorobenzene < 3800 ug/kg 3800 12200 100 8260B 12/20/2013 CJR 1 1,2-Dichlorotenzene < 3600 ug/kg 3600 11400 100 8260B 12/20/2013 CJR 1 1,2-Dichlorotethane < 5700 ug/kg 5700 18200 100 8260B 12/20/2013 CJR 1 1,2-Dichlorotethane < 1900 ug/kg 3600 11400 100 8260B 12/20/2013 CJR 1 1,1-Dichlorotethane < 1900 ug/kg 1900 6000 100 8260B 12/20/2013 CJR 1 1,1-Dichlorotethane < 2100 ug/kg 2100 6600 100 8260B 12/20/2013 CJR 1 1,1-Dichlorotethene < 2100 ug/kg 2400 7700 100 8260B 12/20/2013 CJR 1 1,2-Dichlorotethene < 2900 ug/kg 2400 7700 100 8260B 12/20/2013 CJR 1 1,2-Dichlorotethene < 2900 ug/kg 2900 9300 100 8260B 12/20/2013 CJR 1 1,2-Dichloropropane < 950 ug/kg 950 3000 100 8260B 12/20/2013 CJR 1 1,2-Dichloropropane < 4600 ug/kg 4600 14800 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2100 ug/kg 1100 3400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2100 ug/kg 2100 6800 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2100 ug/kg 2100 6800 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 265000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 265000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 21300 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane 20600 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane 20600 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane 20600 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 1,3-			< 1600		1600	5200	100	8260B				
1,2-Dibromo-3-chloropropane			< 1400	ug/kg	1400	4300	100					
Dibromochloromethane		propropane	< 4800	ug/kg	4800	15400	100					
1,4-Diehlorobenzene	•		< 1400	ug/kg	1400							-
1,3-Dichlorobenzene	1,4-Dichlorobenzer	ıe	< 3300	ug/kg	3300							
1,2-Dichlorodenzene	•		< 3000	ug/kg								
Dichlorodifluoromethane	1,2-Dichlorobenzer	ie	< 3800	ug/kg								
1,2-Dichloroethane	Dichlorodifluorome	ethane	< 5700	ug/kg								
1,1-Dichloroethane < 1900	1,2-Dichloroethane		< 3600									
1,1-Dichloroethene < 2100 ug/kg 2100 500 100 8260B 12/20/2013 CJR 1 cis-1,2-Dichloroethene < 2400	1,1-Dichloroethane		< 1900	ug/kg				_				
cis-1,2-Dichloroethene < 2400 ug/kg 2400 700 100 8260B 12/20/2013 CJR 1 trans-1,2-Dichloroethene < 2900 ug/kg 2900 9300 100 8260B 12/20/2013 CJR 1 1,2-Dichloropropane < 950 ug/kg 4600 14800 100 8260B 12/20/2013 CJR 1 2,2-Dichloropropane < 4600 ug/kg 2100 6800 100 8260B 12/20/2013 CJR 1 1,3-Dichloropropane < 2100 ug/kg 2100 6800 100 8260B 12/20/2013 CJR 1 Di-isopropyl ether < 1100 ug/kg 1100 3400 100 8260B 12/20/2013 CJR 1 EDB (1,2-Dibromoethane) < 2000 ug/kg 2000 6400 100 8260B 12/20/2013 CJR 1 Ethylbenzene 265000 ug/kg 9500 30400 100 8260B 12/20/2013 CJR <td>1,1-Dichloroethene</td> <td></td> <td>< 2100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1,1-Dichloroethene		< 2100									
trans-1,2-Dichloroethene												
1,2-Dichloropropane < 950	trans-1,2-Dichloroe	thene										
2,2-Dichloropropane < 4600	1,2-Dichloropropan	ne										
1,3-Dichloropropane												
Di-isopropyl ether		ıe		_								
EDB (1,2-Dibromoethane) < 2000 ug/kg 2000 5400 100 8260B 12/20/2013 CJR 1 Ethylbenzene 265000 ug/kg 9500 30400 100 8260B 12/20/2013 CJR 1 Hexnehlorobutadiene < 9500 ug/kg 9500 30400 100 8260B 12/20/2013 CJR 1 Isopropylbenzene 21300 ug/kg 2500 8000 100 8260B 12/20/2013 CJR 1 Isopropylbenzene 21300 ug/kg 2500 8000 100 8260B 12/20/2013 CJR 1				_								
Ethylbenzene 265000 ug/kg 1000 3300 100 6250B 12/20/2013 CJR 1 Hexnehlorobutadiene < 9500		ethane)										
Hexachlorobutadiene				-								
Isopropylbenzene 21300 ttg/kg 2300 3000 100 8266B 12/20/2013 CJR 1		ne		-								
p-Isopropyltoluene 5700 "1" ug/kg 5100 9600 100 62605												
	p-Isopropyltoluene		5/UU "J"	ng/Kg	3100	2000	. 100	U				

Project Name DA SWAMP Project # P101399.40

Lab Code5026277MSample IDGP-5 S-2Sample MatrixSoil

Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 5700	ug/kg	5700	18200	100	8260B		12/20/2013	СJR	1
Methyl tert-butyl ether (MTBE)	< 3000	ug/kg	3000	9600	100	8260B		12/20/2013	CJR	1
Naphthalene	119000	ug/kg	11400	36300	100	8260B		12/20/2013	CIR	23
n-Propylbenzene	92000	ug/kg	2400	7500	100	8260B		12/20/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 1200	ug/kg	1200	3800	100	8260B		12/20/2013	СJR	I
1,1,1,2-Tetrachloroethane	< 2300	ug/kg	2300	7400	100	8260B ·		12/20/2013	CJR	1
Tetrachloroethene	< 4900	ug/kg	4900	15700	100	8260B		12/20/2013	СIR	1
Toluene	890000	ug/kg	2000	6500	100	8260B		12/20/2013	CJR	1
1,2,4-Trichlorobenzene	< 7900	ug/kg	7900	25100	100	8260B		12/20/2013	CJR	1
1,2,3-Trichlorobenzene	< 12900	ug/kg	12900	41100	100	8260B		12/20/2013	CJR	23
1,1,1-Trichloroethane	< 3800	ug/kg	3800	12000	100	8260B		12/20/2013	CJR.	1
1,1,2-Trichloroethane	< 2300	ug/kg	2300	7400	100	8260B		12/20/2013	CJR	1
Trichloroethene (TCE)	< 2800	ug/kg	2800	8800	100	8260B		12/20/2013	СJR	1
Trichlorofluoromethane	< 8600	ug/kg	8600	27300	100	8260B		12/20/2013	CJR	1
1,2,4-Trimethylbenzene	590000	ug/kg	2600	8100	100	8260B		12/20/2013	CJR	1
1,3,5-Trimethylbenzene	179000	ug/kg	2600	8400	100	8260B ·		12/20/2013	CIR	1
Vinyl Chloride	< 2100	ug/kg	2100	6600	100	,8260B		12/20/2013	CJR	1
m&p-Xylene	940000	ug/kg	6800	21600	100	8260B		12/20/2013	CJR	1
o-Xylene	360000	ug/kg	3100	9800	100	8260B		12/20/2013	СJR	I
SUR - 1,2-Dichloroethane-d4	105	REC %			100	8260B		12/20/2013	CJR	1
SUR - Toluene-d8	104	Rec %			100	8260B		12/20/2013	CJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			100	8260B		12/20/2013	CJR	1
SUR - Dibromofluoromethane	98	Rec %			100	8260B		12/20/2013	СJR	1

Project Name Project # DA SWAMP P101399.40
Lab Code 5026277N

Sample ID GP-5 S-4
Sample Matrix Soil

Sample Date 12/12/2013

•	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.5	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	0.79 "J"	mg/Kg	0.3	0,96	1	6010B		12/20/2013	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62,3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-ed)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
l-Methyl naphthalene	3800	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	7200	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene *	6700	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	43 "J"	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	i
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
PVOC										
Benzene	18400	ug/kg	79	250	10	GRO95/8021		12/19/2013	CJR	1
Ethylbenzene	24600	ug/kg	77	250	10	GRO95/8021		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 250	ug/kg	81	260	10	GRO95/8021		12/19/2013	CJR	1
Toluene	93000	ug/kg	84	270	10	GRO95/8021		12/19/2013	CJR	1
1,2,4-Trimethylbenzene	51000	ug/kg	100	330	10	GRO95/8021		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	19500	ug/kg	93	300	10	GRO95/8021		12/19/2013	СJR	1
m&p-Xylene	84000	ug/kg	160	500	10	GRO95/8021		12/19/2013	CJR	1
o-Xylene	28600	ug/kg	100	320	10	GRO95/8021		12/19/2013	CJR	I

Project Name DA SWAMP Project # P101399.40

Lab Code

50262770

Sample ID GP-6 S-2 **Sample Matrix** Soil

Sample Date

12/12/2013

	Result	Unit	LOD	LOQ	Dil .	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.6	%			1	5021		12/16/2013	MDK	1
Inorganic	00.0	,			•	2021		12,10,2015	*****	*
	•									
Metals										
Lead, Total	2.5	ıng/Kg	0.3	0.96	1	6010B		12/20/2013	CWT	1
Organic							•			
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/16/2013	12/17/2013	MDK	I
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1 -
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23,9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
l-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	j	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	25,5 "J"	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	l
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		12/22/2013	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	. GRO95/8021		12/22/2013	CJR	1
Methyl tert-butyl ethor (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/22/2013	СJR	1
Toluene	45	ug/kg	8.4	27	1	GRO95/8021	-	12/22/2013	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		12/22/2013	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		12/22/2013	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		12/22/2013	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		12/22/2013	CJR .	I

Project Name DA SWAMP Project # P101399.40 5026277P Lab Code GP-6 S-4 Sample ID Sample Matrix Soil

Sample Date	12/12/2013 Result	Unit	LOD LOQ Dil	Method	Ext Date	Run Date Analyst	Code
General							

	Result	Unit	LOD	LOQ	ÐЦ	Method	Ext Date	Run Date	Analyst	Coue
General										
General										
	70.6	%			1	5021		12/16/2013	MDK	1
Solids Percent	88.6	70				3021		•		
Organic										
VOC's										
Benzene	17.6 "J"	ug/kg	9.2	29	1	8260B		12/19/2013	CJR	1
Bromobenzene	< 13	ug/kg	13	40	1	8260B		12/19/2013	CJR	1
Bromodichloromethane	< 27	ug/kg	27	85	1	8260B		12/19/2013	CJR	1
Bromoform	< 30	ug/kg	30			8260B		12/19/2013	CIR	1
tert-Butylbenzene	< 20	ug/kg	20			8260B		12/19/2013	CJR	1
sec-Butylbenzene	< 41	ug/kg	41	132		8260B		12/19/2013	CJR CJR	1 1
n-Butylbenzene	66 "J"	ug/kg	26			8260B		12/19/2013	CJR	I
Carbon Tetrachloride	< 25	ug/kg	25			8260B		12/19/2013	CIR	1
Chlorobenzene	< 16	ug/kg	16			8260B		12/19/2013	CJR	Ī
Chloroethane	< 42	ug/kg	42			8260B 8260B		12/19/2013	CJR	ì
Chloroform	< 49	ug/kg	49	577		8260B		12/19/2013	CIR	1
Chloromethane	< 181	ug/kg	181 16			8260B		12/19/2013	CJR	1
2-Chlorotoluene	< 16	ug/kg	14			8260B		12/19/2013	CJR	1
4-Chlorotoluene	< 14 < 48	ug/kg ug/kg	48	154		8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chloropropane	< 14	ug/kg ug/kg	14	45		8260B		12/19/2013	CJR	1
Dibromochloromethane	< 33	ug/kg	33	103		8260B		12/19/2013	CJR	1
1,4-Dichlorobenzene 1,3-Dichlorobenzene	< 30	ug/kg	30			8260B		12/19/2013	CJR	1
1,3-Dichlorobenzene	< 38	ug/kg	38			8260B		12/19/2013	CJR	1
Dichlorodifluoromethane	< 57	ug/kg	57		. 1	8260B		12/19/2013	CJR	1
1,2-Dichloroethane	< 36	ug/kg	36	114	1	8260B		12/19/2013	CJR	l
1,1-Diohloroethane	< 19	ug/kg	19	60	1	8260B		12/19/2013	CJR	1
1,1-Dichloroethene	< 21	ug/kg	21	66	1	8260B		12/19/2013	CJR	1
eis-1,2-Dichloroethene	< 24	ug/kg	24	77	1	8260B		12/19/2013	CJR	1
trans-1,2-Dichloroethene	< 29	ug/kg	29	93	1	8260B		12/19/2013	CJR	l
1,2-Dichloropropane	< 9.5	ug/kg	9.5	30		8260B		12/19/2013	CJR	1
2,2-Dichloropropane	< 46	ug/kg	46			8260B		12/19/2013	CJR	1 1
1,3-Dichloropropane	< 21	ug/kg	21	68		8260B		12/19/2013	CJR CJR	i
Di-isopropyl ether	< 11	ug/kg	11	34		8260B		12/19/2013 12/19/2013	CJR	1
EDB (1,2-Dibromoethane)	< 20	ug/kg	20			8260B		12/19/2013	CJR	1
Ethylbenzene	19.4 "Л"	ug/kg	10			8260B 8260B		12/19/2013	CJR	1
Hexachlorobutadiene	< 95	ug/kg	95 25	304 80		8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25	ug/kg	25 31	98		8260B		12/19/2013	СЛ	1
p-Isopropyltoluene	< 31	ug/kg ug/kg	57	182		8260B		12/19/2013	СJR	1
Methylene chloride	< 57 < 30	ug/kg ug/kg	30	96		8260B		12/19/2013	CJR	1
Methyl tert-butyl ether (MTBE)	570	ug/kg ug/kg	114	363		8260B		12/19/2013	CJR	1
Naphthalene n-Propylbenzene	35 "J"	ug/kg	24	75		8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38		8260B		12/19/2013	CJR	1
1,1,2-Tetrachloroethane	< 23	ug/kg	23	74		8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/19/2013	CJR	2
Toluene	72	ug/kg	20	65	1	8260B		12/19/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/19/2013	CJR	1
1,2,3-Triohlorobenzene	< 129	ug/kg	129	411	1	8260B		12/19/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120		8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74		8260B		12/19/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88		8260B		12/19/2013	CJR	1
Trichlorofluoromethane	< 86	ug/kg	86	273		8260B		12/19/2013	CIR	1
1,2,4-Trimethylbenzene	157	ug/kg	26			8260B		12/19/2013	CJR	1 1
1,3,5-Trimethylbenzene	61 "J"	ug/kg	26	84		8260B		12/19/2013	CJR CJR	1
Vinyl Chloride	< 21	ug/kg	21	66		8260B		12/19/2013 12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216		8260B		12/19/2013	CJR	Ī
o-Xylene	< 31	ug/kg	31	98	ı	8260B		1 - 1 - 1 - 1 - 1 - 1 - 1		-

Project Name Project #	DA SWAMF P101399.40	•					Invoi	ce# E262	77		
Lab Code	5026277P										
Sample ID	GP-6 S-4										
Sample Matrix	Soil										
Sample Date	12/12/2013										
_		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 1,2-Dichlor	oethane-d4	97	REC %		_	ı	8260B		12/19/2013	CJR.	1
SUR - 4-Bromoflu	orobenzene	109	Rec %			1	8260B		[2/19/2013	CJR	1
SUR - Dibromoflu		110	Rec %			I	8260B		12/19/2013	CIR	1
SUR - Toluene-d8		100	Rec %			1	8260B		12/19/2013	CJR	1
Lab Code	5026277Q										
Sample ID	GP-6 S-5										
Sample Matrix	Soil										
Sample Date	12/12/2013										
•		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		86.2	%			1	5021		12/16/2013	MDK	1
Organic											
PVOC + Naph	thalene										
Benzene		152	ug/kg	7.9	25	1	GRO95/8021		12/18/2013	CJR	1
Ethylbenzene		450	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	i
Methyl tert-butyl et		< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	CJR	1
Naphthalene		500	ug/kg	22	70	1	GRO95/8021		12/18/2013	СЛ	l
Toluene		178	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	CJR	1
1,2,4-Trimethylben		1680	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1

1,3,5-Trimethylbenzene

m&p-Xylene

o-Xylene

690

870

295

ug/kg

ug/kg

ug/kg

9.3

16

10

30 1

50

32

1

GRO95/8021

GRO95/8021

I GRO95/8021

12/18/2013

12/18/2013

12/18/2013

CJR

CJR

CJR

1

1

1

Project Name Project # DA SWAMP P101399.40

Lab Code 5026277R
Sample ID GP-7 S-2
Sample Matrix Soil
Sample Date 12/12/2013

Sample Date	12/12/2013										CI. 1.
_		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Cammal											
General											
General						,	5021		12/16/2013	MDK	1
Solids Percent		88.6	%			1	5021		12/10/2017	171211	•
Organic											
PAH SIM											
		< 21.8	ug/kg	21.8	69.3	3 1	M8270D	12/16/2013	12/17/2013	MDK	I
Acenaphthene Acenaphthylene		< 19.2	ug/kg	19.2			M8270D	12/16/2013	12/17/2013	MDK	1
Anthracene		< 19.5	ug/kg	19.5		1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracen	e.	< 22.9	ug/kg	22.9		1	M8270D	12/16/2013		MDK	I
Benzo(a)pyrene	•	< 17.4	ug/kg	17.4	55.3	3 1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthe	me	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)peryler		< 22.7	ug/kg	22.7	72.2	2 1	M8270D	12/16/2013		MDK	1
Benzo(k)fluoranthe		< 21.6	ug/kg	21.6	68.8	3 1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene		< 18.1	ug/kg	18.1			M8270D	12/16/2013	12/17/2013	MDK	1 1
Dibenzo(a,h)anthra	cene	< 22.3	ug/kg	22.3			M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene		< 21.1	ug/kg	21.1			M8270D	12/16/2013		MDK MDK	1
Fluorene		< 22.2	ug/kg	22.2			M8270D	12/16/2013		MDK MDK	1
Indeno(1,2,3-cd)py	rene	< 23.9	ug/kg	23.9			M8270D	12/16/2013	12/17/2013	MDK	1
1-Methyl naphthale	ene	< 20.7	ug/kg	20.7			M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthale		< 20.6	ug/kg	20.6			M8270D	12/16/2013 12/16/2013	12/17/2013 12/17/2013	MDK	1
Naphthalene		< 22.1	ug/kg	22.1			M8270D	12/16/2013		MDK	ì
Phenanthrene		< 22.4	ug/kg	22.4				12/16/2013	12/17/2013	MDK	1
Pyrene		< 23.1	ug/kg	23.1	73.6	5 1	M8270D	12/16/2013	12/1//2015	TATIVIC	•
VOC's											
Benzene		< 9.2	ug/kg	9.2	29) 1	8260B		12/22/2013	CJR	1
Bromobenzene		< 13	ug/kg	13	40) 1	8260B		12/22/2013	CJR	1
Bromodichloromet	hane	< 27	ug/kg	27	8.	5 1	8260B		12/22/2013	CJR	! 1
Bromoform		< 30	ug/kg	30			8260B		12/22/2013	CIR	ì
tert-Butylbenzene		< 20	ug/kg	20			8260B		12/22/2013	CJR CJR	1
sec-Butylbenzene		< 41	ug/kg	41			8260B		12/22/2013	CJR	1
n-Butylbenzene		< 26	ug/kg	26					12/22/2013	CJR	Ī
Carbon Tetrachlori	de	< 25	ug/kg	25			8260B		12/22/2013 12/22/2013	CJR	1
Chlorobenzene		< 16	ug/kg	16			8260B		12/22/2013	CJR	1
Chloroethane		< 42	ug/kg	42			8260B		12/22/2013	CJR	1
Chloroform		< 49	ug/kg	49			8260B		12/22/2013	CJR	i
Chloromethane		< 181	ug/kg	181			8260B 8260B		12/22/2013	CJR	1
2-Chlorotolueue		< 16	ug/kg	16			8260B		12/22/2013	CJR	1
4-Chlorotoluene		< 14	ug/kg	14			8260B		12/22/2013	CJR	2
1,2-Dibromo-3-chlo		< 48	ug/kg	48 14			8260B		12/22/2013	CJR	1
Dibromochloromet		< 14	ug/kg ug/kg	33			8260B		12/22/2013	CJR	1
1,4-Dichlorobenzer		< 33		30			8260B		12/22/2013	CJR	1
1,3-Dichlorobenzer		< 30 < 38	ug/kg ug/kg	38			8260B		12/22/2013	СJR	1
1,2-Dichlorobenzer		< 57	ug/kg ug/kg	57			8260B		12/22/2013	CJR	1
Dichlorodifluorome		< 36	ug/kg	36			8260B		12/22/2013	CJR	1
1,2-Dichloroethane		< 19	ug/kg	19			8260B		12/22/2013	CJR	1
1,1-Dichloroethane 1,1-Dichloroethene		< 21	ug/kg	21			8260B		12/22/2013	CJR.	1
cis-1,2-Dichloroeth		< 24	ug/kg	24			8260B		12/22/2013	CJR	1
trans-1,2-Dichloroe		< 29	ug/kg	29			8260B	-	12/22/2013	CJR	1
		< 9.5	ug/kg	9.5			8260B		12/22/2013	CJR	1
1,2-Dichloropropan 2,2-Dichloropropan		< 46	ug/kg	46			8260B		12/22/2013	CJR	7
1,3-Diehloropropan		< 21	ug/kg	21			8260B		12/22/2013	CJR	1
Di-isopropyl ether	••	< 11	ug/kg	11			8260B		12/22/2013	CJR	1
EDB (1,2-Dibromo	ethane)	< 20	ug/kg	20		1 1	8260B		12/22/2013	CJR	1
Ethylbenzene		12.7 "Ј"	ug/kg	10		3 1	8260B		12/22/2013	СJR	1
Hexachiorobutadie	ne	< 95	ug/kg	95		1	8260B		12/22/2013	СЛ	1
Isopropylbenzene		< 25	ug/kg	25	80) 1	8260B		12/22/2013	CJR	1
p-Isopropyltoluene		< 31	ug/kg	31	98	3 1	8260B		12/22/2013	CJR	1
h makrahlyanana			• •								

Project Name DA SWAMP Project # P101399.40

Lab Code5026277RSample IDGP-7 S-2Sample MatrixSoil

Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 57	ug/kg	57	182	1	8260B		12/22/2013	CIR	1
Methyl tert-butyl ether (MTBE)	< 30	ug/kg	30	96	1	8260B		12/22/2013	CJR	1
Naphthalene	< 114	ug/kg	114	363	1	8260B		12/22/2013	CJR	1
n-Propylbenzene	< 24	ug/kg	24	75	1	8260B		12/22/2013	СJR	1
1,1,2,2-Tetrachloroethane	< 12	ug/kg	12	38	i	8260B		12/22/2013	СJR	1
1,1,1,2-Tetrachloroethane	< 23	ug/kg	23	74	1	8260B		12/22/2013	CJR	1
Tetrachloroethene	< 49	ug/kg	49	157	1	8260B		12/22/2013	СJR	1
Toluene	< 20	ug/kg	20	65	ı	8260B		12/22/2013	CJR	1
1,2,4-Trichlorobenzene	< 79	ug/kg	79	251	1	8260B		12/22/2013	СJR	1
1,2,3-Trichlorobenzene	< 129	ug/kg	129	411	1	8260B		12/22/2013	CJR	1
1,1,1-Trichloroethane	< 38	ug/kg	38	120	1	8260B		12/22/2013	СJR	1
1,1,2-Trichloroethane	< 23	ug/kg	23	74	1	8260B		12/22/2013	CJR	1
Trichloroethene (TCE)	< 28	ug/kg	28	88	1	8260B		12/22/2013	СЛ	1
Trichlorofluoromethane	< 86	ug/kg	86	273	1	8260B		12/22/2013	CJR	1
1,2,4-Trimethylbenzene	57 "J"	ug/kg	26	81	1	8260B		12/22/2013	, CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/22/2013	CIR	i
Vinyl Chloride	< 21	ug/kg	21	66	1	8260B		12/22/2013	СЛR	I
m&p-Xylene	< 68	ug/kg	68	216	1	8260B		12/22/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	. 1	8260B		12/22/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	96	REC %			I	8260B		12/22/2013	CJR	1
SUR - 4-Bromofluorobenzene	111	Reo %			1	8260B		12/22/2013	CJR	1
SUR - Dibromofluoromethane	100	Rec %			l	8260B		12/22/2013	CJR	1
SUR - Toluene-d8	109	Rec %			1	8260B		12/22/2013	CJR	1

Project Name DA SWAMP Project # P101399.40

 Lab Code
 5026277S

 Sample ID
 GP-7 S-4

 Sample Matrix
 Soil

 Sample Date
 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.3	%			1	5021		12/16/2013	MDK	1
Inorganic										
Metals										
Lead, Total	< 0.3	mg/Kg	0.3	0.96	1	6010B	•	12/20/2013	CWT	ı
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK.	I
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	I	M8270D	12/16/2013	12/17/2013	MDK	l
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/16/2013	12/17/2013	MDK	1 .
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthene	< 19,6	ug/kg	19.6	62.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/16/2013	12/17/2013	MDK	I
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/16/2013	12/17/2013	MDK	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	i	M8270D	12/16/2013	12/17/2013	MDK	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/16/2013	12/17/2013	MDK	. 1
Indeno(1,2,3-cd)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
l-Methyl naphthalene	860	ug/kg	20.7	65.8	1	M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthalene	1310	ug/kg	20.6	65.4	1	M8270D	12/16/2013	12/17/2013	MDK	1
Naphthalene	1420	ug/kg	22.1	70.2	1	M8270D	12/16/2013	12/17/2013	MDK	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/16/2013	12/17/2013	MDK	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/16/2013	12/17/2013	MDK	1 .
PVOC										
Benzene	1100	ug/kg	7.9	25	i	GRO95/8021		12/18/2013	CJR	i
Ethylbenzene	2990	ug/kg	7.7	25	1	GRO95/8021		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		12/18/2013	СJR	1
Toluene	2480	ug/kg	8.4	27	1	GRO95/8021		12/18/2013	СJR	1
1,2,4-Trimethylbenzene	8400	ug/kg	10	33	1	GRO95/8021		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	3500	ug/kg	9.3	30	1	GRO95/8021		12/18/2013	CJR	I
m&p-Xylene	11000	ug/kg	16	50	1	GRO95/8021		12/18/2013	CJR	1
o-Xylene	3600	ug/kg	10	32	1	GRO95/8021		12/18/2013	CJR	I

Project Name DA SWAMP Project # P101399.40

Lab Code 5026277T

Sample ID GP-8 S-2 Sample Matrix Soil

Sample Date 12/12/2013

Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
86.0	%			1	5021		12/16/2013	MDK	I
< 25	ug/kg	7.9	25	1	GRO95/8021		12/22/2013	CJR	1
< 25	ug/kg	7.7	25	1	GRO95/8021		12/22/2013	CJR	1
< 25	ug/kg	8.1	26	1	GRO95/8021		12/22/2013	CJR	1
57 "J"	ug/kg	22	70	1	GRO95/8021		12/22/2013	CJR	1
< 25	ug/kg	8.4	27	1	GRO95/8021		12/22/2013	CJR	1
< 25	ug/kg	10	33	1	GRO95/8021		12/22/2013	CJR	1
< 25	ug/kg	9.3	30	1	GRO95/8021		12/22/2013	CJR	1
< 50	ug/kg	16	50	1	GRO95/8021		12/22/2013	CJR	1
< 25	ug/kg	10	32	1	GRO95/8021		12/22/2013	CJR	1
	<pre>86.0 < 25 < 25 < 25 < 25 < 7 "J" < 25 < 25 < 25 < 50</pre>	<pre></pre>	86.0 % <pre></pre>	86.0 % <pre></pre>	86.0 % 1	86.0 % 1 5021	86.0 % 1 5021	86.0 % 1 5021 12/16/2013	86.0 % 1 5021 12/16/2013 MDK

Project Name Project # DA SWAMP P101399.40

Lab Code Sample ID GP-8 S-4
Sample Matrix Soil 12/12/2013

Sample Date	12/12/2013										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General							5021		12/16/2013	MDK	ŧ
Solids Percent		88.3	%			1	3021		12/10/2010		,
Inorganic											
Metals											
Lead, Total		< 0.3	mg/Kg	0.3	0.96	5 1	6010B		12/20/2013	CWT	1
Organic											
PAH SIM											
		- 21.0	ug/kg	21.8	69.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthene		< 21.8 < 19.2	ug/kg	19.2			M8270D	12/16/2013	12/17/2013	MDK	1
Acenaphthylene Anthracene		< 19.5	ug/kg	19.5			M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)anthracene	•	< 22.9	ug/kg	22.9		1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(a)pyrene	•	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/16/2013	12/17/2013	MDK	1
Benzo(b)fluoranthe	ne	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/16/2013		MDK	1
Benzo(g,h,i)perylen		< 22.7	ug/kg	22.7	72.2	1	M8270D	12/16/2013		MDK	Į,
Benzo(k)fluoranthe		< 21.6	ug/kg	21.6	68.8	1	M8270D	12/16/2013	12/17/2013	MDK	l
Chrysene		< 18.1	ug/kg	18.1			M8270D	12/16/2013		MDK	1
Dibenzo(a,h)anthrac	cene	< 22.3	ug/kg	22.3			M8270D	12/16/2013	12/17/2013	MDK MDK	i 1
Fluoranthene		< 21.1	ug/kg	21.1			M8270D	12/16/2013		MDK	1
Fluorene		< 22.2	ug/kg	22.2			M8270D	12/16/2013		MDK	ĺ
Indeno(1,2,3-ed)pyr	rene	< 23.9	ug/kg	23.9			M8270D	12/16/2013 12/16/2013		MDK	1
l -Methyl naphthale		< 20.7	ug/kg	20.7			M8270D	12/16/2013	12/17/2013	MDK	1
2-Methyl naphthale	ne	< 20.6	ug/kg	20.6			M8270D M8270D	12/16/2013		MDK	i
Naphthalene		< 22.1	ug/kg	22.1			M8270D	12/16/2013		MDK	1
Phenanthrene		< 22.4	ug/kg ug/kg	22.4 23.1			M8270D	12/16/2013	12/17/2013	MDK	I
Pyrene		< 23.1	ug/kg	23,1	75.0	•	19102702				
VOC's					-		on con		12/19/2013	CJR	1
Benzene		< 9.2	ug/kg	9.2			8260B		12/19/2013	CJR	i
Bromobenzene		< 13	ug/kg	13			8260B		12/19/2013	CJR	1
Bromodichlorometh	ane	< 27	ug/kg	27			8260B 8260B		12/19/2013	CJR	Ī
Bremeform		< 30	ug/kg	30 20			8260B		12/19/2013	CJR	1
tert-Butylbenzene		< 20	ug/kg	41			8260B		12/19/2013	СJR	1
sec-Butylbenzene		< 41	ug/kg	26			8260B		12/19/2013	СJR	1
n-Butylbenzene	1	< 26 < 25	ug/kg ug/kg	25			8260B		12/19/2013	CJR	1
Carbon Tetrachloric	ic	< 16	ug/kg	16			8260B		12/19/2013	CJR	1
Chlorobenzene		< 42	ug/kg	42			8260B		12/19/2013	CJR	1
Chloroethane Chloroform		< 49	ug/kg	49			8260B		12/19/2013	CJR	1
Chloromethane		< 181	ug/kg	181		' 1	8260B		12/19/2013	СJR	1
2-Chlorotoluene		< 16	ug/kg	16		1	8260B		12/19/2013	CJR	1
4-Chlorotoluene		< 14	ug/kg	14	43	1	8260B		12/19/2013	CJR	1
1,2-Dibromo-3-chlo	ropropane	< 48	ug/kg	48	154	1	8260B		12/19/2013	CJR	1
Dibromochlorometh	•	< 14	ug/kg	14	4.5	1	8260B		12/19/2013	CJR	1
1,4-Dichlorobenzen		<33	ug/kg	33	103		8260B		12/19/2013	CJR	1
1,3-Dichlorobenzen	e	< 30	ug/kg	30			8260B		12/19/2013	CJR	1
1,2-Dichlorobenzen	e	< 38	ug/kg	38			8260B		12/19/2013	CJR CJR	1
Dichlorodifluorome	thane	< 57	ug/kg	57			8260B		12/19/2013 12/19/2013	CJR	1
1,2-Dichloroethane		< 36	ug/kg	36			8260B		12/19/2013	CJR	1
1,1-Dichloroethane		< 19	ug/kg	19			8260B		12/19/2013	CJR	1
1,1-Dichloroethene		< 21	ug/kg	21			8260B		12/19/2013	CJR	1
cis-1,2-Diohloroethe		< 24	ug/kg	24			8260B 8260B		12/19/2013	CJR	1
trans-1,2-Dichloroet		< 29	ug/kg	29			8260B 8260B		12/19/2013	CJR	1
1,2-Dichloropropan		< 9.5	ug/kg	9.5			8260B		12/19/2013	CJR	i
2,2-Dichloropropan		< 46	ug/kg	46 21			8260B		12/19/2013	CJR	1
1,3-Dichloropropan	e	<21	ug/kg ug/kg	11			8260B		12/19/2013	CJR	1
Di-isopropyl ether	thans!	< 11 < 20	ug/kg ug/kg	20			8260B		12/19/2013	СJR	1
EDB (1,2-Dibromoe	mane)	~ 20	ug/ ng	20	3,	-					

Project Name DA SWAMP Project # P101399.40 Lab Code 5026277U

Sample ID GP-8 S-4
Sample Matrix Soil

Sample Date 12/12/2013

wan-pro 2	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ethylbenzene	< 10	ug/kg	10	33	1	8260B		12/19/2013	CIR	1
Hexachlorobutadiene	< 95		95	304	1	8260B		12/19/2013	CJR	1
Isopropylbenzene	< 25		25	80	1	8260B		12/19/2013	CJR	1
p-Isopropyltoluene	< 31		31	98	3 1	8260B		12/19/2013	CJR	1
Methylene chloride	< 57		57	182	1	8260B		12/19/2013	CJR	I
Methyl tert-butyl ether (MTBE)	< 30		30	96	i 1	8260B		12/19/2013	CJR	1
Naphthalene	< 11		114	363	1	8260B		12/19/2013	СЛ	1
n-Propylbenzene	< 24	-	24	75	1	8260B		12/19/2013	CJR	i
1,1,2,2-Tetrachloroethane	< 12	_	12	38	1	8260B		12/19/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 23		23	74	1	8260B		12/19/2013	CJR	1
Tetrachloroethene	< 49		49	157	1	8260B		12/19/2013	CJR	2
Toluene	< 20	ug/kg	20	65	1	8260B		12/19/2013	CJR	ı
1,2,4-Trichlorobenzene	< 79		79	251	. 1	8260B		12/19/2013	CJR	l
1,2,3-Trichlorobenzene	< 12	- -	129	411	. 1	8260B		12/19/2013	CJR	1
1.1.1-Trichloroethane	< 38		38	120	1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroethane	< 23		23	74	1	8260B		12/19/2013	CJR.	1
Trichloroethene (TCE)	< 28		28	88	1	8260B		12/19/2013	CJR	l
Trichlorofluoromethane	< 86		86	273	I	8260B		12/19/2013	CJR	I .
1,2,4-Trimethylbenzene	< 26		26	81	1	8260B		12/19/2013	CJR	1
1,3,5-Trimethylbenzene	< 26	ug/kg	26	84	1	8260B		12/19/2013	CJR	i
Vinyl Chloride	< 21	_	21	66	1	8260B		12/19/2013	CJR	1
m&p-Xylene	< 68	ug/kg	68	216	5 1	8260B		12/19/2013	CJR	1
o-Xylene	< 31	ug/kg	31	98	1	8260B		12/19/2013	СЛR	1
SUR - Toluene-d8	101	Rec%			1	8260B		12/19/2013	CJR	l
SUR - Dibromofluoromethane	107	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluorobenzene	106	Rec %			1	8260B		12/19/2013	CJR	1
SUR - 1.2-Dichloroethane-d4	104	REC %			1	8260B		12/19/2013	CJR	i

Project Name Project # DA SWAMP P101399.40

Lab Code 5026277V

Lab Code 5026277V Sample ID MEOH BLANK

Sample Matrix Soil

Sample Date 12/12/2013

Sample Date	12/12/2013										~ •
•		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Ougania											
Organic											
VOC's						_	00.0073		12/19/2013	СJR	ı
Benzene		< 9,2	ug/kg	9.2					12/19/2013	CJR	i I
Bromobenzene		< 13	ug/kg	13					12/19/2013	CJR	1
Bromodichloromet	hane	< 27	ug/kg	27			8260B		12/19/2013	CJR	į
Bromoform		< 30	ug/kg	30					12/19/2013	CJR	1
tert-Butylbenzene		< 20	ug/kg	20					12/19/2013	CJR	i
seo-Butylbenzene		< 41	ug/kg	41					12/19/2013	СJR	1
n-Butylbenzene		< 26	ug/kg	26					12/19/2013	CJR	1
Carbon Tetrachlori	de	< 25	ug/kg	25					12/19/2013	СJR	1
Chlorobenzene		< 16	ug/kg	16					12/19/2013	CJR	1
Chloroethane		< 42	ug/kg	42					12/19/2013	СЛ	ì
Chloroform		< 49	ug/kg	49					12/19/2013	CJR	1
Chloromethane		< 181	ug/kg	181					12/19/2013	СJR	1
2-Chlorotoluene		< 16	ug/kg	16			8260B		12/19/2013	CJR	1
4-Chlorotoluene		< 14	ug/kg	14					12/19/2013	CJR	l
1,2-Dibromo-3-chl		< 48	ug/kg	48					12/19/2013	CJR	i
Dibromochloromet		< 14	ug/kg	14					12/19/2013	CJR	Ī
1,4-Dichlorobenzer		< 33	ug/kg	33					12/19/2013	CJR	1
1,3-Dichlorobenzer		< 30	ug/kg	30					12/19/2013	CJR	ì
1,2-Dichlorobenzer		< 38	ug/kg	38 57					12/19/2013	CJR	1
Dichlorodifluorom		< 57	ug/kg	36			8260B		12/19/2013	CJR	1
1,2-Dichloroethane		< 36	ug/kg	19					12/19/2013	СJR	1
1,1-Dichloroethane		< 19	ug/kg						12/19/2013	CJR	1
1,1-Dichloroethene		< 21	ug/kg	21 24					12/19/2013	CJR	1
cis-1,2-Dichloroeth		< 24	ug/kg	29					12/19/2013	CJR	1
trans-1,2-Dichloroe		< 29	ug/kg ug/kg	9.5					12/19/2013	CJR	1
1,2-Dichloropropar		< 9.5		46			8260B		12/19/2013	CJR	1
2,2-Dichloropropar		< 46	ug/kg	21			8260B		12/19/2013	CJR	1
1,3-Dichloropropat	1e	< 21	ug/kg ug/kg	11			8260B		12/19/2013	CJR	1
Di-isopropyl ether	a \	< 11 < 20	ug/kg ug/kg	20		_	8260B		12/19/2013	CJR	1
EDB (1,2-Dibromo	ethane)	< 10	ug/kg ug/kg	10					12/19/2013	CJR	1
Ethylbenzene		< 95	ug/kg	95					12/19/2013	CJR	1
Hexachlorobutadie	ne	< 25	ug/kg	25			8260B		12/19/2013	CJR	1
Isopropylbenzene		< 31	ug/kg	31					12/19/2013	CJR	1
p-Isopropyltoluene		< 57	ug/kg ug/kg	57					12/19/2013	CJR	i
Methylene chloride		< 30	ug/kg	30					12/19/2013	CJR	l
Methyl tert-butyl et	ner (MIBE)	< 114	ug/kg	114		1	8260B		12/19/2013	СJR	1
Naphthalene		< 24	ug/kg	24			8260B		12/19/2013	CJR	I
n-Propylbenzene 1,1,2,2-Tetrachloro	athan a	< 12	ug/kg	12			8260B		12/19/2013	CJR	1
1,1,1,2-Tetrachloro		< 23	ug/kg	23		1	8260B		12/19/2013	CJR	1
Tetrachloroethene	cenane	< 49	ug/kg	49			8260B		12/19/2013	CJR	2
Toluene		< 20	ug/kg	20					12/19/2013	СJR	1
1,2,4-Trichlorobenz	zene	< 79	ug/kg	79		1	8260B		12/19/2013	CJR	1
1,2,3-Trichlorobenz		< 129	ug/kg	129		ı	8260B		12/19/2013	СJR	1
1,1,1-Trichloroetha		< 38	ug/kg	38		1	8260B		12/19/2013	CJR	1
1,1,2-Trichloroetha		< 23	ug/kg	23		1	8260B		12/19/2013	CJR	1
Trichloroethene (To		< 28	ug/kg	28	88	1	8260B		12/19/2013	CJR	1
Trichlorofluoromet		< 86	ug/kg	86	273	1	8260B		12/19/2013	CJR	1
1,2,4-Trimethylben		< 26	ug/kg	26	81	1	8260B		12/19/2013	CJR	I
1,3,5-Trimethylben		< 26	ug/kg	26		1	8260B		12/19/2013	CJR	I
Vinyl Chloride		< 21	ug/kg	21		1	8260B		12/19/2013	CJR	l
m&p-Xylene		< 68	ug/kg	68			8260B		12/19/2013	СЛR	1
o-Xylene		< 31	ug/kg	31		1	8260B		12/19/2013	CJR	ı
SUR - Toluene-d8		103	Reo %			1	8260B		12/19/2013	CJR	1
SUR - 1,2-Dichlore	ethane-d4	95	REC %			1	8260B		12/19/2013	CJR	1
SUR - 4-Bromofluc		105	Rec %			1	8260B		12/19/2013	CJR	1
SUR - Dibromofluc		97	Rec %			I	8260B		12/19/2013	CJR	1
2016 Dibioutotine	•••										

Project Name	DA SWAMP	Invoice #	E26277
Duciact #	D101200 40		

"J" Flag: Analyte detected betwe	en LOD and LOQ	LOD Limit of Detection	LOQ Limit of Quantitation
Code	Comment		
1	Laboratory QC within limits		
2	Relative percent difference	failed for laboratory spiked samples.	
7	The LCS not within establish	hed ilmits.	
23	Area percent recovery less	than 50%.	
	CWT denotes sub contract l	ab - Certification #445126660	

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Michaelflel

Authorized Signature

CHAIN OF ()TODY RECORD

Quote No.:

Lab I.D.#

Account No. :



Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914

Chain # Nº 268

	Sample	Handling	Request
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Rush Analysis Date Required (Rushes accepted only with prior authorization)

Sampler: (signature)		920-830-2455 • FAX 920-733-0631										Normal Turn Around											
Project (Name / Local	ion): 04 50	KMQ.			F. Spiriting						Ana	ysis	Rec	lues	ted	*****************************		, , , , , , , , , , , , , , , , , , ,			ther Ar		s
Réports To: Vose	L Ramch	lect	invoi	ce To:	Same	15 "R	wf 75 4			13.5						No.						T	999
Company Endos	WENU, Se	wies Inc	. Com	oany		Philippe have been a second as					- PRANKHANI	rethings.				2	1			Co-company		THANK BURNET	
Address_2180-B	Sulscheid	44	Addr	ess	· · · · · · · · · · · · · · · · · · ·	SQL=14. 14:				8 8		2000 temporal porter		200	<u>a</u>	SOUDS	are programmed by the William						
City State Zip Gran Phone 920-4 3	Bry WI	542/3	City	State Z	έρ	19000000000000000000000000000000000000	A STATE OF THE STA			Sep 9			and the section		A H		Če Ca			-	annual distriction of the second	***	, and a second
Phone 920-43	7-2997		Phor	iệ							MATERIA STATE	2 4	9	8023	Ĕ	Z	4 54	99 3	4				
FAX 920 - 43	7-3066		FAX	· · · · · · · · · · · · · · · · · · ·	***				Agout Services		(g) ye maquada	A LENNING	88	A	ž 4	Įš.	A CE	3 2				1	PID
LabilD	Sample I.D.	Collection Date Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preserval	ion	DHO (Mgd	EAD	MITTALE MAINTEN	PAH (EPA 8270)	PVCC (EFA 8021)	PVOC *	TOTAL SUSPENDED SOL	VOC DW (EPA 542.2)	VOC (EPA 9260)		and Marie and American		mandelinishees (MPT) 7848*	Eligraphy was an annual Eligraphy (Eligraphy)
SOZBATA C		14/3/037		X	N	2	32	MONTA	(see			1	Ţ.		X							二	C
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	5P-/5-4 6P-25-2	1053			╂┼	~~~					X	-	¥	-	\$ 	- American		\mathbf{x}^{\perp}	~ -			 	0
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	5P-3 J-2	1108				3						1	X					X					/3/ 3/ //
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	表表示	V 1/95		4	W	3	╁₩──	$+\psi$					$\sqrt{\mathbf{x}}$	W.	4	+		X	-			H	297 7000
Comments/Special	al Instructions (*S		water '	GW",	Orinking ¹	Water "DW", I	Waste Water	"ww", soi	l "S",	Air *	A*, O	i, Si	rqåe	etc)								C TOTAL THE PARTY OF THE PARTY
1450.00000000000000000000000000000000000	- To be complete od of Shipment ⁹ of Temp. Blank	بيلان		6	inquisped			Time		D HJ/))/3	Re	ceiw	od By	: (skgi	n)					ime	De	ato
Cooler seal intac	Managara da Comparata da Cara	Control of the second	DARKE TELEVISION		ceived in L	aboratory By:(لحديلا	N-=	maniani.	*****	~~~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			umore s -v	· · · · · · · · · · · · · · · · · · ·	Time	»: /	6)11	<u> </u>		ale: /	2/13	1/13

CHAIN OF C JODY RECORD

Quate No.:

Lab I.D.#

Account No. :

Sampler: (Senature)

Synergy

Chain # Nº 268(

Page 2 of 3

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914 920-830-2455 • FAX 920-733-0631

Samole	Handling	Reminet
adiiiiiie		TO LUCES

Rush Analysis Date Required (Rushes accepted only with prior authorization)

X Normal Turn Around

					C 201 284 000 000 100 100 100	·				-			GAGGE	ario	
Project (Name / Location): Da Syung			-		Ana	lysis	Req	uest	ed					r Anaiy	3
Reports Townson L Runcheck	Invoice To: Sand	as "Report To	711								M				
Company Endower Inc. Savies Inc		t Prince de la Contraction de la constantion de la constantion de la Contraction de	H 377999							w		A GOOD CONTRACTOR	A THE PROPERTY OF THE PROPERTY		
Address 2200 8 Subchille of	Address	or year the same of the same o				100	MEN CONTRACTOR	11	Armentines	SOLIDS	Marie Carlo	g/1/di/90			
City State Zip George Bay, WI 543/3	City State Zip			95)	CA PC OUS DOM		THE STREET	Ž		ର୍ଜ ପାର		year or a second			100
Phone 920- 437-2997	Phone			des o	2		8	S E			g	S 74		W	
FAX 920-437-3066	FAX:			OH S	5	E SAN	88	6 X			8	#E7			
Collection	Comp Grab Filtered	No. of Sample Type (Matrix)*	Preservation	DRO (No.		NITRATENITIE	PAH (EPA 8270)	PVOC (EPA BIRT)	SILFATE	TOTAL SUSPENDED	VOC (EPA 8280)	B-RCFA METALS	A constant of the constant of	- And Andrews (All States and Andrews	T#13
SOLUTION GP-4 S-4 MAISVATE	X W	2 13	Modfithe					5							7/000
CAS 5/ WS															>00
m 6P-5 S-2 1408		3					X				X			<u> </u>	2,000
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$\begin{array}{c c} R & 6P-7 & S-2 \\ S & (P-7 & S-9) & 323 \end{array}$					-12	-	⊣ç	X			+	╁╌╂╌╢╼┤		++	1482
F 62-8 5-2 V 1887	ー・ルール ー	2	<u> </u>		-kz		1		\mathbf{x}	++	-	1		++	7.7
Comments/Special Instructions (*Specify grounds AECIA U.: C Rata	water "GW", Drinking V	Vater "DW", Waste Water	*WW*, Soll *S*	Air	*A*, C	ii, Si	udge	elo.)							
Sample integrity - To be completed by receiving Method of Shipment:			Time /6/5	14) 	7 R	CONE	d By:	(sign)		Marie Control of the		Time		Date
Temp. of Temp. Blank*°C On to Cooler seal infact upon receipt:*Yes	No See .	aboratory By:	<u> </u>						7	Fires:	16	115	Date:	12/	<u> </u>

CHAIN OF (JTODY RECORD

BOWN & PINRSO UN

Quote No.:

Lab LD.#

Accenin No. :

Synergy

Environmental Lab, Inc.

Chain	詳	Nº	2	6	8	- Charles
	7.5	4 25 100	5000			- 4

Page 3 of 3

Sample	Handling	Request
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Rush Analysis Date Required
[Rushes accepted only with prior authorization]

Sampler, (signatura)		Ž.	Territoria militarii (n. bezalia)	iliga, electronica de cons	4)			• FAX 920-7							-	· · ·				Yorn 2	pal Ti	A mٍı لدينو	round C/49	<i>~</i>	
Project (Name / Coc	eation): 2454	iamo	·				######################################	ed et en med Mit (Oddood) gas pred menselekselekse i 17 dode sou keel is	in Milkon was made	Ā	naiy	/sis	Rec	ues	ted								er Ana		
Reports To Vas	1 7	A	jnvc	ice To:	SAM	e 45 %	Part)	10 1			T	Ī					*************	- Compressions		A CONTRACTOR OF THE PARTY OF TH		neoroge galderousia		TT	
Company Enda	ior Eno, Se	mias I	Sie Con	npany							***************************************	The property of the second			-	Ų	0	KANAN OMANAN		AND DESCRIPTION OF THE PERSONS			Total Coloni	and the same	
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Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK ENDEAVOR ENV. SERVICES, INC. 2280-B SALSCHEIDER CT GREEN BAY, WI 54313

Report Date 09-Jan-14

Project Name	DA SWAMP					Ir	voice#	E2635	54
Project #	P101399.40								
Lab Code	5026354A								
Sample ID	MW-1, S-4								
Sample Matrix	Soil								
Sample Date	12/20/2013								
		Result	Unit	LOD	LOQ Dil	Method	Ext	t Date	Ru
General									

Sample Date	12/20/2013										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		93.6	%			ı	5021		12/26/2013	MDK	1
Organic											
PAH SIM											
Acenaphthene		< 21.8	ug/kg	21.8	69.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene		< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene		< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene		< 22.9	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)pyrene		< 17.4	ug/kg	17.4	55.3	I	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene		< 19.6	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene		< 22.7	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene		< 21.6	ug/kg	21.6	68.8	Į	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene		< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracen	e	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene		< 21.1	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene		< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-cd)pyrene	•	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
1-Methyl naphthalene		< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR.	1
2-Methyl naphthalene		< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene		< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene		< 22.4	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene		< 23.1	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC											
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		1/3/2014	CJR	t
Ethylbenzene		< 25	ug/kg	7.7	25	1	GRO95/8021		1/3/2014	CJR	1
Methyl tert-butyl ether	(MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/3/2014	CJR	1
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		1/3/2014	CJR	1
1,2,4-Trimethylbenzene	;	< 25	ug/kg	10	33	1	GRO95/8021		1/3/2014	СJR	1
1,3,5-Trimethylbenzene	;	< 25	ug/kg	9.3	30	1	GRO95/8021		1/3/2014	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		1/3/2014	CJR	1
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		1/3/2014	CJR	l

Project Name DA SWAMP Project # P101399.40

Lab Code5026354BSample IDMW-2, S-2Sample MatrixSoil

Sample Date 12/20/2013

•	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.5	%			i	5021		12/26/2013	MDK	1
Organic										
PAH SIM										
Acenaphthene	< 21.8	ug/kg	21.8	69.3	I	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	26.7 "J"	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)pyrene	21 "J"	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene	23.6 "J"	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene	105	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	ı
Fluoranthene	30.7 "Ј"	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-ed)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	L
1-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR.	1
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene	22.5 "J"	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene	31.2 "J"	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/4/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/4/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	1.8	26	1	GRO95/8021		1/4/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/4/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/4/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/4/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/4/2014	CJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/4/2014	CJR	1

Project Name DA SWAMP Project # P101399.40

Lab Code Sample ID MW-2, S-4

Sample ID MW Sample Matrix Soil

Sample Date 12/20/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.3	%			1	5021		12/26/2013	MDK	1
Organic										
PAH SIM		•								
Acenaphthene	< 21.8	ug/kg	21.8	69.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Anthracene	< 19.5	ug/kg	19.5	62.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MЛ	ī
Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	< 22.2	ug∕kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-ed)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
l-Methyl naphthalene	< 20.7	u <i>g</i> /kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR	Ţ
2-Methyl naphthalene	< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Naphthalene	< 22.1	ug/kg	22,1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene	< 22.4	ug/kg	22.4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/4/2014	CJR	1
Ethylbenzene	< 25	ug/kg	7.7	25	I	GRO95/8021		1/4/2014	CIR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/4/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/4/2014	CJR	1
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/4/2014	CJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/4/2014	CJR	i
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/4/2014	СJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/4/2014	CJR	1

Lab Code 5026354D Sample ID TB-4, S-2 Sample Matrix Soil

Sample Date 12/20/2013

		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General											
General											
Solids Percent		84.5	%			-1	5021		12/26/2013	MDK	1
Organic											
PVOC + Naphtha	alene										
Benzene		< 25	ug/kg	7.9	25	1	GRO95/8021		1/8/2014	CJR	1
Ethylbenzene		< 25	ug/kg	7.7	2.5	1	GRO95/8021		1/8/2014	CJR	1
Methyl tert-butyl ether	(MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/8/2014	СJR	1
Naphthalene		< 25	ug/kg	22	70	1	GRO95/8021	•	1/8/2014	CJR	I
Toluene		< 25	ug/kg	8.4	27	1	GRO95/8021		1/8/2014	CJR	1
1,2,4-Trimethylbenzen	e	< 2.5	ug/kg	10	33	1	GRO95/8021		1/8/2014	CJR	1
1,3,5-Trimethylbenzen	ie	< 25	ug/kg	9.3	30	l	GRO95/8021		1/8/2014	CJR	1
m&p-Xylene		< 50	ug/kg	16	50	1	GRO95/8021		1/8/2014	CJR	1.
o-Xylene		< 25	ug/kg	10	32	1	GRO95/8021		1/8/2014	СJR	l

 Project Name
 DA SWAMP

 Project #
 P101399.40

 Lab Code
 5026354E

Sample ID TB-4, S-4
Sample Matrix Soil

Sample Date 12/20/2013

General General Solida Percent 86.9 % 1 5021 12/26/2013 MDK 1 Organic PAH SIM Acenaphthene < 21.8 ug/kg 19.2 60.9 1 M8270D 12/30/2013 1/3/2014 MJR 1 Acenaphthylene < 19.2 ug/kg 19.2 60.9 1 M8270D 12/30/2013 1/3/2014 MJR 1 Anthracene < 19.5 ug/kg 19.5 62.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(a)anthracene < 22.9 ug/kg 19.5 62.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(a)anthracene < 22.9 ug/kg 17.4 55.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene < 19.6 ug/kg 19.6 62.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene < 19.6 ug/kg 19.6 62.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene < 22.7 ug/kg 22.7 72.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene < 22.7 ug/kg 22.7 72.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene < 22.1 ug/kg 21.6 68.8 1 M8270D 12/30/2013 1/3/2014 MJR 1 Chrysene < 18.1 ug/kg 18.1 57.7 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.3 ug/kg 22.3 71 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 21.1 ug/kg 21.1 67.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.2 ug/kg 22.2 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.7 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.1 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.1 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.2 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.2 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.1 ug/kg 22.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.4 ug/kg 2.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.4 ug/kg 2.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 22.4 ug/kg 2.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthyl naphthalene < 20.7 ug/kg 2.7 70.2 1		Result	Unit	LOD	LOQ I	Dil	Method	Ext Date	Run Date	Analyst	Code
Solids Percent Soli	General										
Organic PAH SIM Acenaphthene < 21.8 ug/kg 21.8 69.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Acenaphthene < 19.2	General										
PAH SIM Acenaphthene	Solids Percent	86.9	%			1	5021		12/26/2013	MDK	1
Acenaphthene < 21.8 ug/kg 21.8 69.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Acenaphthylene < 19.2	Organic										
Acenaphthylene < 19.2 ug/kg 19.2 60.9 1 M8270D 12/30/2013 1/3/2014 MJR 1 Anthracene < 19.5	PAH SIM										
Anthracene <19.5 ug/kg 19.5 62.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(a)anthracene <22.9 ug/kg 22.9 72.9 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(a)pyrene <17.4 ug/kg 17.4 55.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene <19.6 ug/kg 19.6 62.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene <22.7 ug/kg 22.7 72.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(k)fluoranthene <21.6 ug/kg 21.6 68.8 1 M8270D 12/30/2013 1/3/2014 MJR 1 Chrysene <18.1 ug/kg 18.1 57.7 1 M8270D 12/30/2013 1/3/2014 MJR 1 Dibenzo(a,h)anthracene <22.3 ug/kg 22.3 71 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene <21.1 ug/kg 21.1 67.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluorene <22.2 ug/kg 22.2 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluorene <22.2 ug/kg 22.2 70.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Indeno(1,2,3-ed)pyrene <23.9 ug/kg 23.9 76.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 I-Methyl naphthalene <20.7 ug/kg 20.6 65.8 1 M8270D 12/30/2013 1/3/2014 MJR 1 I-Methyl naphthalene <20.6 ug/kg 20.6 65.4 1 M8270D 12/30/2013 1/3/2014 MJR 1 Phenanthrene <22.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Phenanthrene <22.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Phenanthrene <23.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Phenanthrene <23.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Phenanthrene <23.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene <23.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene <23.1 ug/kg 23.1 73.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene <23.1 ug/kg 23.1 73.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene <23.1 ug/kg 23.1 73.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene <23.1 ug/kg 23.1 73.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene <23.1 ug/kg 7.9 25 1 GRO95/8021 1/8/2014 CJR 1 Ethylbenzene <25 ug/kg 7.7 25 1 GRO95/8021 1/8/2014 CJR 1	Acenaphthene	< 21.8	ug/kg	21.8	69.3	I	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(a)anthracene	Acenaphthylene	< 19.2	ug/kg	19.2	60.9	1	M8270D	12/30/2013	1/3/2014	MЛ	1
Benzo(a)pyrene < 17.4 ug/kg 17.4 55.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(b)fluoranthene < 19.6	Anthracene	< 19.5	ug/kg	19.5	62.1	l	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(b)fluoranthene < 19.6 ug/kg 19.6 62.3 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(g,h,i)perylene < 22.7	Benzo(a)anthracene	< 22.9	ug/kg	22.9	72.9	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(g,h,i)perylene < 22.7 ug/kg 22.7 72.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Benzo(k)fluoranthene < 21.6	Benzo(a)pyrene	< 17.4	ug/kg	17.4	55.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzo(k)fluoranthene < 21.6 ug/kg 21.6 68.8 1 M8270D 12/30/2013 1/3/2014 MJR 1 Chrysene < 18.1	Benzo(b)fluoranthene	< 19.6	ug/kg	19.6	62.3	1	M8270D	12/30/2013	1/3/2014	MJR	1
Chrysene	Benzo(g,h,i)perylene	< 22.7	ug/kg	22.7	72.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
Dibenzo(a,h)anthracene < 22.3 ug/kg 22.3 71 1 M8270D 12/30/2013 1/3/2014 MJR 1 Fluoranthene < 21.1	Benzo(k)fluoranthene	< 21.6	ug/kg	21.6	68.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluoranthene	Chrysene	< 18.1	ug/kg	18.1	57.7	1	M8270D	12/30/2013	1/3/2014	MJR	1
Fluorene	Dibenzo(a,h)anthracene	< 22.3	ug/kg	22.3	71	1	M8270D	12/30/2013	1/3/2014	MJR	1
Indeno(1,2,3-ed)pyrene < 23.9	Fluoranthene	< 21.1	ug/kg	21.1	67.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
1-Methyl naphthalene < 20.7	Fluorene	< 22.2	ug/kg	22.2	70.6	1	M8270D	12/30/2013	1/3/2014	MM	1
2-Methyl naphthalene	Indeno(1,2,3-ed)pyrene	< 23.9	ug/kg	23.9	76.1	1	M8270D	12/30/2013	1/3/2014	MЛ	1
Naphthalene < 22.1 ug/kg 22.1 70.2 1 M8270D 12/30/2013 1/3/2014 MJR 1 Phenanthrene < 22.4	l-Methyl naphthalene	< 20.7	ug/kg	20.7	65.8	1	M8270D	12/30/2013	1/3/2014	MJR	1
Phenanthrene < 22.4 ug/kg 22.4 71.1 1 M8270D 12/30/2013 1/3/2014 MJR 1 Pyrene < 23.1		< 20.6	ug/kg	20.6	65.4	1	M8270D	12/30/2013	1/3/2014	MJR	1
Pyrene < 23.1 ug/kg 23.1 73.6 1 M8270D 12/30/2013 1/3/2014 MJR 1 PVOC Benzene < 25	Naphthalene	< 22.1	ug/kg	22.1	70.2	1	M8270D	12/30/2013	1/3/2014	MJR	1
PVOC Benzene < 25	Phenanthrene	< 22.4	ug/kg	22,4	71.1	1	M8270D	12/30/2013	1/3/2014	MJR	1
Benzene < 25 ug/kg 7.9 25 1 GRO95/8021 1/8/2014 CJR 1 Ethylbenzene < 25	Pyrene	< 23.1	ug/kg	23.1	73.6	1	M8270D	12/30/2013	1/3/2014	MJR	1
Ethylbenzene < 25 ug/kg 7.7 25 1 GRO95/8021 1/8/2014 CJR 1	PVOC										
	Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/8/2014	CJR	1
	Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/8/2014	CJR ·	1
	Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/8/2014	CJR	1
Toluene <25 ug/kg 8.4 27 1 GRO95/8021 1/8/2014 CJR 1	Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/8/2014	CJR	1
1,2,4-Trimethylbenzene < 25 ug/kg 10 33 1 GRO95/8021 1/8/2014 CJR 1	1,2,4-Trimethylbenzene	< 25		10	33	1	GRO95/8021		1/8/2014	CJR	1
1,3,5-Trimethylbenzene <25 ug/kg 9.3 30 1 GRO95/8021 1/8/2014 CJR 1	1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/8/2014	CJR	1
m&p-Xylene <50 ug/kg 16 50 1 GRO95/8021 1/8/2014 CJR 1	m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/8/2014	CJR	1
o-Xylene <25 ug/kg 10 32 1 GRO95/8021 1/8/2014 CJR 1	o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/8/2014	CJR	1

Lab Code

5026354F

Sample ID MEOH BLANK

Sample Matrix Soil

Sample Date 12/20/2013

	Result	Unit	LOD I	LOQ I)il	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 25	ug/kg	7.9	25	1	GRO95/8021		1/8/2014	CIR	1
Ethylbenzene	< 25	ug/kg	7.7	25	1	GRO95/8021		1/8/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 25	ug/kg	8.1	26	1	GRO95/8021		1/8/2014	CJR	1
Naphthalene	< 25	ug/kg	22	70	1	GRO95/8021		1/8/2014	CJR	1
Toluene	< 25	ug/kg	8.4	27	1	GRO95/8021		1/8/2014	CJR	İ
1,2,4-Trimethylbenzene	< 25	ug/kg	10	33	1	GRO95/8021		1/8/2014	СJR	1
1,3,5-Trimethylbenzene	< 25	ug/kg	9.3	30	1	GRO95/8021		1/8/2014	CJR	1
m&p-Xylene	< 50	ug/kg	16	50	1	GRO95/8021		1/8/2014	СJR	1
o-Xylene	< 25	ug/kg	10	32	1	GRO95/8021		1/8/2014	CJR	ı

Project Name Project #

DA SWAMP

P101399.40

Invoice # E26354

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code

1

Comment

Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Muchaelflel

Authorized Signature

CHAIN G. CUSTODY RECORD

Quote No.:

Lab l.D.∮

Account No.:

Synergy

Environmental Lab, Inc.

Chain #	Nº		308
D	/	1	

Project #: P10/399.40	ect Ct. • Appleton, 2455 • FAX 920-7		14		is accepted only w Normal T	ith prior auth	orization)		
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Phone 920-437-2997	Phone			레콤			METALS		
FAX 920-437-3066	FAX			P S	日間関連	로 바 로 로	2 2		PID/
Lab LD. Sample I.D. Collection Date Time Co	omp Grab Filtered	No, of San Containers (Mai	pe Preservation	DPC (Mod DRO Sep 95) GRO (Mod GRO Sep 95) BON	LEAD NITRATE / NITRITE PAH (EPA 8270) PVOC (EPA 8021)	PVOC + NAPHTHALENE SULFATE VOC DW (EPA 524.2) VOC (EPA 8280)	8-ACRA		FID
5016358A MW-1.5-4 Tols 096	XV	.3 5	the ON Bush						
B mw-5-2 1 100				 - - -					
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Cooler seal intact upon receipt: <a>Yes No		*	AI				The second secon	-	
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APPENDIX D

Groundwater Sample Laboratory Analytical Reports

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

Invoice # E26276

JOSEPH RAMCHECK ENDEAVOR ENV. SERVICES, INC. 2280-B SALSCHEIDER CT GREEN BAY, WI 54313

Report Date 26-Dec-13

Project Name DA SWAMP

Project #

P101399.40

Lab Code

5026276A

Sample ID

GP-3

Sample Matrix water

Sample Date

12/12/2013

Sample Date	12/12/2013										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic											
PAH SIM											
Acenaphthene		0.028 "J"	ug/l	0.021	0.068	1	M8270D	12/18/2013	12/19/2013	MDK	1
Acenaphthylene		< 0.02	ug/l	0.02	0.063	1	M8270D	12/18/2013	12/19/2013	MDK	1
Anthracene		< 0.02	ug/l	0.02	0.064	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(a)anthracene		< 0.025	ug/l	0.025	0.078	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(a)pyrene		< 0.018	ug/l	0.018	0.058	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(b)fluoranther	ne	< 0.02	ug/l	0.02	0.063	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(g,h,i)perylene	•	< 0.023	ug/I	0,023	0.075	1	M8270D	12/18/2013	12/19/2013	MDK	1
Benzo(k)fluoranthen	ıe	< 0.027	ug/l	0.027	0.087	1	M8270D	12/18/2013	12/19/2013	MDK	1
Chrysene		< 0.018	ug/l	0.018	0.058	1	M8270D	12/18/2013	12/19/2013	MDK	1
Dibenzo(a,h)anthrac	ene	< 0.023	ug/l	0.023	0.072	1	M8270D	12/18/2013	12/19/2013	MDK	ı
Fluoranthene		< 0.026	ug/l	0.026	0.084	1	M8270D	12/18/2013	12/19/2013	MDK	1
Fluorene		0.036 "J"	ug/l	0.02	0.063	1	M8270D	12/18/2013	12/19/2013	MDK	1
Indeno(1,2,3-cd)pyre		< 0.027	ug/l	0.027	0.085	1	M8270D	12/18/2013	12/19/2013	MDK	1
1-Methyl naphthalen		0.45	ug/l	0.019	0.061	1	M8270D	12/18/2013	12/19/2013	MDK	1
2-Methyl naphthalen		0.52	ug/l	0.016	0.052	1	M8270D	12/18/2013	12/19/2013	MDK	1
Naphthalene		2.58	ug/l	0.023	0.075	i	M8270D	12/18/2013	12/19/2013	MDK	1
Phenanthrene		0.114	ug/l	0.018	0.059	1	M8270D	12/18/2013	12/19/2013	MDK	1
Pyrene		< 0.025	ug/l	0.025	0.08	1	M8270D	12/18/2013	12/19/2013	MDK	1
VOC's			v								
Benzene		5.0	ug/l	0.24	0.77	1	8260B		12/18/2013	CJR	1
Bromobenzene		< 0.32	ug/l	0.32	1	1	8260B		12/18/2013	CJR	1
Bromodichlorometha	ne	< 0.37	ug/l	0.37	1.2	1	8260B		12/18/2013	CJR	1
Bromoform		< 0.35	ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	1
tert-Butylbenzene		< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	1
sec-Butylbenzene		< 0.33	ug/l	- 0.33	1	1	8260B		12/18/2013	CJR	1
n-Butylbenzene		< 0.35	ug/l	0.35	1.1	I	8260B		12/18/2013	CJR	1
Carbon Tetrachloride		< 0.33	ug/l	0.33	1.1	1	8260B		12/18/2013	CJR	1
Chiorobenzene		< 0.24	ug/l	0.24	0.77	1	8260B		12/18/2013	CJR	1
Chloroothane		< 0.63	ug/l	0.63	2	1	8260B		12/18/2013	СJR	1
Chloroform		< 0.28	ug/l	0.28	0.88	1	8260B		12/18/2013	CJR	1
Chloromethane		< 0.81	ug/[0.81	2.6	1	8260B		12/18/2013	CJR	1
2-Chlorotoluene		< 0.21	ug/l	0.21	0.66	1	8260B		12/18/2013	CJR	1

Project Name DA SWAMP Project # P101399.40

Lab Code 5026276A Sample ID GP-3 Sample Matrix water Sample Date 12/12/2013

•	Result	Unit	LOD	LOQ Di	l .	Method	Ext Date	Run Date	Analyst	Code
(ot l turns	< 0.21	ug/l	0.21	0.68	1	8260B		12/18/2013	CJR	1
4-Chlorotoluene 1,2-Dibromo-3-chloropropane	< 0.21	ug/l	0.88	2.8	1	8260B		12/18/2013	CJR	1
· · ·	< 0.22	ug/l	0.22	0.7	1	8260B		12/18/2013	CJR	1
Dibromochloromethane	< 0.3	ug/i	0.3	0.96	ī	8260B		12/18/2013	CJR	1
1,4-Diohlorobenzene	< 0.28	ug/l	0.28	0.89	1	8260B		12/18/2013	СJR	1
1,3-Dichlorobenzene	< 0.36	ug/l	0.36	1.2	1	8260B		12/18/2013	CJR	l
1,2-Dichlorobenzene	< 0.44	ug/l	0.44	1.4	1	8260B	•	12/18/2013	CJR	1
Dichlorodifluoromethane	< 0.41	ug/l	0.41	1.3	1	8260B		12/18/2013	СJR	1
1,2-Dichloroethane	< 0.3	ug/l	0.3	0.97	i	8260B		12/18/2013	CJR	I
1,1-Dichloroethane	< 0.4	ug/l	0.4	1.3	1	8260B		12/18/2013	CJR	I
1,1-Dichloroethene	< 0.38	ug/l ug/l	0.38	1.2	1	8260B		12/18/2013	CIR	1
cis-1,2-Dichloroethene		ug/l	0.35	1.1	1	8260B		12/18/2013	CJR	ı
trans-I,2-Dichloroethene	< 0.35	ug/l ug/l	0.32	1	ì	8260B		12/18/2013	СJR	1
1,2-Dichloropropane	< 0.32	_	0.36	1.2	1	8260B		12/18/2013	CJR	48
2,2-Dichloropropane	< 0.36	ug/l	0.33	1.2	1	8260B		12/18/2013	CJR	1
1,3-Dichloropropane	< 0.33	ug/l	0.23	.0.73	1	8260B		12/18/2013	СJR	1
Di-isopropyl ether	< 0.23	ug/l	0.44	1.4	1	8260B		12/18/2013	CJR	1
EDB (1,2-Dibromoethane)	< 0.44	ug/l	0.55	1.7	1	8260B		12/18/2013	CJR	1
Ethylbenzene	4.4	ug/I	0.55 I.5	4.8	1	8260B		12/18/2013	CJR	1
Hexachlorobutadiene	< 1.5	ug/l	0.3	0.96	1	8260B		12/18/2013	CJR	1
Isopropylbenzene	5.3	ug/l	0.31	0.98	1	8260B		12/18/2013	СJR	1
p-Isopropyltoluene	< 0.31	ug/l	0.5	1.6	1	8260B		12/18/2013	СJR	1
Methylene chloride	< 0.5	ug/l		0.74	1	8260B		12/18/2013	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.23	ug/l	0.23	5.5	1	8260B		12/18/2013	CJR	1
Naphthalene	4.1 "J"	ug/l	1.7		1	8260B		12/18/2013	СJR	1
n-Propylbenzene	11.2	ug/l	0.25	0,81 1.4	1	8260B		12/18/2013	CJR	1
1,1,2,2-Tetrachloroethane	< 0.45	ug/l	0.45	1.1	1	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1 1.1	1	8260B		12/18/2013	CJR	1
Tetrachloroethene	< 0.33	ug/l	0.33	2.2	1	8260B		12/18/2013	CJR	1
Toluene	0.92 "J"	ug/l	0.69	3.1	1	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenzone	< 0.98	ug/i	0.98	5.8	1	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 1.8	ug/l	1.8			8260B		12/18/2013	CJR	Ī
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1	1	8260B		12/18/2013	СJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	1 1	8260B		12/18/2013	CJR	1
Trichloroethene (TCE)	< 0.33	ug/l	0.33	1				12/18/2013	CJR	i
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B	•	12/18/2013	CJR	ī
1,2,4-Trimethylbenzene	11	ug/l	2.2	6.9	1	8260B		12/18/2013	CJR	1
1,3,5-Trimethylbenzene	< 1.4	ug/l	1.4	4.5	1	8260B		12/18/2013	СЛ	1
Vinyl Chloride	< 0.18	ug∕l	0.18	0.57	1	8260B		12/18/2013	CJR	1
m&p-Xylene	4.2	ug/l	0.69	2.2	1	8260B			CJR	1
o-Xylene	3.5	ug/l	0.63	2	1	8260B		12/18/2013 12/18/2013	CJR	l
SUR - 1,2-Dichloroethane-d4	94	REC %			1	8260B			CJR	ì
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		12/18/2013	CJR	1
SUR - Dibromofhoromethane	100	REC %			1.	8260B		12/18/2013 12/18/2013	CJR	i
SUR - Toluene-d8	103	REC %			l	8260B		12/10/2013	Cark	

Project Name Project # DA SWAMP P101399.40

Lab Code Sample ID GP-5

Sample Matrix water Sample Date 12/12/2013

Sample Date	12/12/2013										
-		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organia											
Organic											
PAH SIM) room())	12/18/2013	12/21/2013	MDK	1
Acenaphthene		< 10.5	ug/l	10.5			M8270D	12/18/2013	12/21/2013	MDK	1
Acenaphthylene		< 10	ug/l	10				12/18/2013	12/21/2013	MDK	1
Anthracene		< 10	ug/l	10 12.5				12/18/2013	12/21/2013	MDK	I
Benzo(a)anthracene	е	< 12.5	ug/l	12.3				12/18/2013	12/21/2013	MDK	1
Benzo(a)pyrene		< 9 < 10	ug/l ug/l	01				12/18/2013	12/21/2013	MDK	1
Benzo(b)fluoranthe		< 11.5	ug/l	11.5				12/18/2013	12/21/2013	MDK	1
Benzo(g,h,i)perylen		< 13.5	ug/l	13.5				12/18/2013	12/21/2013	MDK	1
Benzo(k)fluoranthe	nic	< 9	ug/l	9				12/18/2013	12/21/2013	MDK	1
Chrysene Dibenzo(a,h)anthra	cene	< 11.5	ug/l	11.5	36	500	M8270D	12/18/2013	12/21/2013	MDK	1
Fluoranthene	cent	< 13	ug/l	13		500	M8270D	12/18/2013	12/21/2013	MDK	1
Fluorene		< 10	ug/l	10	31.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Indeno(1,2,3-od)py	rene	< 13.5	ug/l	13.5	42.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
1-Methyl naphthale		940	ug/l	9,5	30.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
2-Methyl naphthale		1680	ug/l	8	26	500	M8270D	12/18/2013	12/21/2013	MDK	1
Naphthalene		1990	ug/l	11.5	37.5	500		12/18/2013	12/21/2013	MDK	1
Phenanthrene		< 9	ug/l	9	29.5	500	M8270D	12/18/2013	12/21/2013	MDK	1
Pyrene		< 12.5	ug/l	12.5	40	500	M8270D	12/18/2013	12/21/2013	MDK	1
VOC's											
		10900	ug/l	48	154	200	8260B		12/18/2013	CJR	1
Benzene Bromobenzene		< 64	ug/l	64			8260B		12/18/2013	CJR	1
Bromodichlorometh		< 74	ug/l	74			8260B		12/18/2013	CJR	1
Bromoform	iane	< 70	ug/l	70			8260B		12/18/2013	CJR	1
tert-Butylbenzene		< 72	ug/l	72	240	200	8260B		12/18/2013	CJR	İ
sec-Butylbenzene		< 66	ug/l	66	200	200	8260B		12/18/2013	CJR	1
n-Butylbenzene		82 "J"	ug/l	70	220	200	8260B		12/18/2013	СJR	1
Carbon Tetrachlorio	đe	< 66	ug/l	66	220	200	8260B		12/18/2013	CJR	1
Chlorobenzene		< 48	ug/l	48	154	200	8260B		12/18/2013	CJR	1
Chloroethane		< 126	ug/l	126	400	200	8260B		12/18/2013	CJR	1
Chloroform		< 56	ug/l	56	176	200	8260B		12/18/2013	CJR	1
Chloromethane		< 162	ug/l	162	520	200		•	12/18/2013	СJR	Į
2-Chlorotoluene		< 42	ug/l	42					12/18/2013	СЛ	1
4-Chlorotoluene		< 42	ug/l	42			8260B		12/18/2013	CJR	1 1
1,2-Dibromo-3-chlo	propropane	< 176	ug/l	176			8260B		12/18/2013	CJR CJR	1
Dibromochlorometh	hane	< 44	ug/l	44					12/18/2013 12/18/2013	CJR	1
1,4-Dichlorobenzen	le	< 60	ug/l	60					12/18/2013	CJR CJR	1
1,3-Dichlorobenzen	ie	< 56	ug/l	56					12/18/2013	СЛ	1
1,2-Dichlorobenzen		< 72	ug/l	72			8260B		12/18/2013	CJR	1
Dichlorodifluorome	ethane	< 88	ug/l	88			8260B		12/18/2013	CJR	1
1,2-Dichloroethane		< 82	ug/l	82					12/18/2013	CJR	1
1,1-Dichloroethane		< 60	ug/l	60					12/18/2013	CJR	1
1,1-Dichloroethene		< 80	ug/l	80					12/18/2013	CJR	l
cis-1,2-Diohloroethe		< 76	ug/l	76 70					12/18/2013	CJR	1
trans-1,2-Dichloroe		< 70	ug/l	64					12/18/2013	CJR	i
1,2-Dichloropropan		< 64	ug/l	72					12/18/2013	CJR	48
2,2-Dichloropropan		< 72	ug/l	66					12/18/2013	CJR	I
1,3-Dichloropropan	e	< 66	ug/l	46					12/18/2013	CJR	1
Di-isopropyl ether	.4	< 46	ug/l	88					12/18/2013	CJR	1
EDB (1,2-Dibromo	епапеј	< 88	ug/l ug/l	110					12/18/2013	CJR	I
Ethylbenzene		3800 < 300	ug/l ug/l	300					12/18/2013	CJR	1
Hexachlorobutadien	16	98 "J"	ug/l	60					12/18/2013	CJR	i
Isopropylbenzene		98 "J" < 62	ug/I	62					12/18/2013	CJR	1
p-Isopropyltoluene		< 100	ug/l	100			8260B		12/18/2013	CJR	1
Methylene chloride		< 46	ug/i ug/l	46					12/18/2013	CJR	1
Methyl tert-butyl eth	ner (ivi i ibis)	1120	ug/l	340					12/18/2013	CJR	1
Naphthalene		320	ug/l	50			8260B		12/18/2013	CJR	1
n-Propylbenzene		264	~~~·								

Project Name DA SWAMP Project # P101399.40

Lab Code 5026276B Sample ID GP-5 Sample Matrix water Sample Date 12/12/2013

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 90	ug/l	90	280	200	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroethane	< 66	ug/l	66	220	200	8260B		12/18/2013	СJR	I
Tetrachloroethene	< 66	ug/l	66	220	200	8260B		12/18/2013	СЛ	1
Toluene	43000	ug/l	138	440	200	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenzene	< 196	ug/l	196	620	200	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzene	< 360	ug/l	360	1160	200	8260B		12/18/2013	CJR	1
1,1,1-Trichloroethane	< 66	ug/l	66	200	200	8260B		12/18/2013	СJR	1
1,1,2-Triohloroethane	< 68	ug/l	68	220	200	8260B		12/18/2013	CJR	1
Trichloroethene (TCE)	< 66	ug/l	66	200	200	8260B		12/18/2013	CJR	1
Trichlorofluoromethane	< 142	ug/l	142	460	200	8260B		12/18/2013	CJR	1
1,2,4-Trimethylbenzene	2530	ug/l	440	1380	200	8260B		12/18/2013	СJR	1
1,3,5-Trimethylbenzene	650 "J"	ug/l	280	900	200	8260B		12/18/2013	CJR	1
Vinyl Chloride	< 36	ug/l	36	114	200	8260B		12/18/2013	CIR	1
m&p-Xylene	11500	ug/l	138	440	200	8260B		12/18/2013	CJR	1
o-Xylene	5200	ug/l	126	400	200	8260B		12/18/2013	CJR	ı
SUR - Dibromofluoromethane	99	REC %			200	8260B		12/18/2013	CJR	1
SUR - 4-Bromofluorobenzene	103	REC %			200	8260B		12/18/2013	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			200	8260B		12/18/2013	CJR	1
SUR - Toluene-d8	101	REC %			200	8260B		12/18/2013	CJR	1

Project Name Project # DA SWAMP P101399.40

Lab Code Sample ID GP-6
Sample Matrix water 12/12/2013

Sample Date	12/12/2013												<i>c</i> ,
•		Res	ult	Unit	LOD	LOQ	Di	i	Method	Ext Date	Run Date	Analyst	Code
Orronia													
Organic													
VOC's											12/18/2013	CJR	ı
Benzene		86		ug/l	2.4			10	8260B		12/18/2013	CJR	i i
Bromobenzene			< 3.2	ug/l	3.2			10	8260B			CJR CJR	ì
Bromodichloromet	hane		< 3.7	ug/l	3.7		2	10	8260B		12/18/2013	CJR	1
Bromoform			< 3.5	ug/l	3.5		1	10	8260B		12/18/2013	СЛ	1
tert-Butylbenzene			< 3.6	ug/l	3.6		2	10	8260B		12/18/2013 12/18/2013	CJR	1
seo-Butylbenzene		13.6		ug/l	3.3		0	10	8260B			CJR	1
n-Butyibenzene		65		ug/l	3.5			10	8260B		12/18/2013 12/18/2013	CJR	1
Carbon Tetrachlori	de		< 3.3	ug/l	3.3		1	10	8260B		12/18/2013	СЛ	1
Chlorobenzene			< 2.4	ug/l	2.4			10	8260B		12/18/2013	CJR	1
Chloroethane			< 6.3	ug/l	6.3		0	10	8260B		12/18/2013	CJR	1
Chloroform			< 2.8	ug/l	2.8			10	8260B		12/18/2013	CJR	l
Chloromethane			< 8.1	ug/l	8.1			10	8260B		12/18/2013	СЛR	ì
2-Chlorotoluene			< 2.1	ug/l	2.1			01	8260B		12/18/2013	СJR	i
4-Chlorotoluene			< 2.1	ug/l	2.1			10	8260B		12/18/2013	CJR	1
1,2-Dibromo-3-chi			< 8.8	ug/l	8.8		8	10	8260B		12/18/2013	CJR	1
Dibromochloromet			< 2.2	ug/l	2.2		•	10	8260B		12/18/2013	CJR	1
1,4-Dichlorobenzer	ie		< 3	ug/l	3			10	8260B		12/18/2013	CJR	1
1,3-Dichlorobenzer	ne		< 2.8	ug/l	2.8		-	10	8260B		12/18/2013	CJR	1
1,2-Dichlorobenzer			< 3.6	ug/l	3.6		_	10	8260B		12/18/2013	CJR	1
Dichlorodifluorome			< 4.4	ug/l	4.4		•	10	8260B 8260B		12/18/2013	CJR	1
1,2-Dichloroethane			< 4.1	ug/l	4.1		3	10			12/18/2013	CJR	1
1,1-Dichloroethane			< 3	ug/l	3			10	8260B		12/18/2013	CJR	1
1,1-Dichloroethene			< 4	ug/l	4		3	10	8260B 8260B		12/18/2013	CJR	į
cis-1,2-Dichloroeth			< 3.8	ug/l	3.8			10	8260B		12/18/2013	CJR	1
trans-1,2-Dichleree			< 3.5	ug/l	3.5		-	10 10	8260B		12/18/2013	CJR	1
1,2-Dichloropropar	ne		< 3.2	ug/l	3.2		-	10	8260B		12/18/2013	CJR	48
2,2-Dichloropropar			< 3.6	ug/l	3.6			10	8260B		12/18/2013	CJR	1
1,3-Dichloropropar	ıc		< 3.3	ug/l	3,3		-	10	8260B		12/18/2013	CJR	1
Di-isopropyl ether			< 2.3	ug/l	2.3			10	8260B		12/18/2013	CJR	ī
EDB (1,2-Dibromo	ethane)		< 4.4	ug/l	4.4			10	8260B		12/18/2013	CJR	1
Ethylbenzene		271	. 10	ug/l	5.5 15			10	8260B		12/18/2013	CJR	1
Hexachlorobutadie	ne		< 15	ug/l	3			10	8260B		12/18/2013	СJR	1
Isopropylbenzene		29.2	7 11	ug/l	3.1			10	8260B		12/18/2013	СJR	1
p-Isopropyltoluene		5.6 ".		ug/l	5.1		_	10	8260B		12/18/2013	CJR	1
Methylene chloride			< 5	ug/l	2.3			10	8260B		12/18/2013	CJR	1
Methyl tert-butyl et	her (MTBE)		< 2.3	ug/l	17			10	8260B		12/18/2013	CJR	1
Naphthalene		102		ug/l	2.5			10	8260B		12/18/2013	CJR	1
n-Propylbenzene		144	- 15	ug/l ug/l	4.5		-	10	8260B		12/18/2013	CJR	1
1,1,2,2-Tetrachloro	ethane		< 4.5 < 3.3	ug/l	3,3			10	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloro	ethane			-	3.3			10	8260B		12/18/2013	CJR	1
Tetrachloroethene			< 3.3	ug/l	5.3 6,9			10	8260B		12/18/2013	CJR	1
Toluene		29.9	~n o	ug/l ug/l	9.8			10	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenz			< 9.8 < 18	ug/l	18			10	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenz			< 3.3	ug/l	3.3		-	10	8260B		12/18/2013	CJR	1
1,1,1-Trichloroetha			< 3.4	ug/!	3.4			10	8260B		12/18/2013	CJR	1
1,1,2-Trichloroetha			< 3.4	ug/l	3.3			10	8260B		12/18/2013	CJR	i
Trichlomethene (To			< 7.1	ug/l	7.1	2		10	8260B		12/18/2013	CJR	1
Trichlorofluoromet		710	× 7.1	ug/l	22			10	8260B		12/18/2013	CJR	1
1,2,4-Trimethylben		710 237		ug/l	14			10	8260B		12/18/2013	CJR	1
1,3,5-Trimethylben	zene	231	< 1.8	-	1.8			10	8260B		12/18/2013	CJR	1
Vinyl Chloride		260	~ 1.0	ug/l ug/l	6.9			10	8260B		12/18/2013	CJR	1
m&p-Xylene		350		ug/l ug/l	6.3			10	8260B		12/18/2013	CJR	1
o-Xylene	atlac====	114		REC %	0.5	2		ίο	8260B		12/18/2013	CIR	1
SUR - Dibromofluo	romemane	99 104		REC %				10	8260B		12/18/2013	CJR	ı
SUR - Tohiene-d8		104		REC %				10	8260B		12/18/2013	CJR	1
SUR - 4-Bromofluo		102 99		REC %				10	8260B		12/18/2013	СJR	1
SUR - 1,2-Dichloro	culanc-u4	77		2420 70				- "	•				

Project Name DA SWAMP Project # P101399.40

Lab Code 5026276D Sample ID TRIP BLANK

Sample Matrix water Sample Date 12/12/2013

Sample Date	12/12/2013												
Sampro Date		Resu	ılt	Unit	LOD	LOC	Dil		Method	Ext Date	Run Date	Analyst	Code
Organic							_						
_													
VOC's			.004	#	0.24	0.	17	ı	8260B		12/18/2013	СJR	1
Benzene			< 0.24	ug/l	0.24 0.32			1	8260B		12/18/2013	CJR	1
Bromobenzene			< 0.32	ug/l	0.37			1	8260B		12/18/2013	СЛR	I
Bromodichlorometh	ane		< 0.37	ug/l ug/l	0.37			1	8260B		12/18/2013	СJR	1
Bromoform			< 0.35 < 0.36	ug/I ug/I	0.36			1	8260B		12/18/2013	CJR	1
tert-Butylbenzene			< 0.33	ug/l	0.33			ī	8260B		12/18/2013	CJR	1
sec-Butylbenzene n-Butylbenzene			< 0.35	ug/l	0.35			1	8260B		12/18/2013	СJR	1
Carbon Tetrachlorid	la.		< 0.33	ug/l	0.33			1	8260B		12/18/2013	CJR	1
Chlorobenzene			< 0.24	ug/l	0.24		77	1	8260B		12/18/2013	CJR	1
Chloroethane			< 0.63	ug/l	0.63		2	1	8260B		12/18/2013	CJR	1
Chloroform			< 0.28	ug/l	0.28	0.	38	1	8260B		12/18/2013	CJR	1
Chloromethane			< 0.81	ug/l	0.81	2	.6	1	8260B		12/18/2013	CJR	I
2-Chlorotoluene			< 0.21	ug/l	0.21	0.6	56	1	8260B		12/18/2013	CJR	1
4-Chlorotoluene			< 0.21	ug/l	0.21	0.0	58	1	8260B		12/18/2013	CJR	I
1,2-Dibromo-3-chlo	ropropane		< 0.88	ug/l	0.88	. 2		l.	8260B		12/18/2013	CJR	l 1
Dibromochlorometh	ane		< 0.22	ug/l	0.22			1	8260B		12/18/2013	CJR CJR	1 1
1,4-Dichlorobenzene	•		< 0.3	ug/l	0.3		-	1	8260B		12/18/2013	CJR CJR	1
1,3-Dichlorobenzen	e		< 0.28	ug/l	0.28			l	8260B		12/18/2013 12/18/2013	CJR	l l
1,2-Dichlorobenzen	e		< 0.36	ug/l	0.36			1	8260B		12/18/2013	CJR	i
Dichlorodifluorome	thane		< 0.44	ug/l	0.44			1	8260B 8260B		12/18/2013	CJR	1
1,2-Dichloroethane			< 0.41	ug/l	0.41			1	8260B		12/18/2013	СJR	1
1,1-Dichloroethane			< 0.3	ug/l	0.3 0.4			1	8260B		12/18/2013	CJR	1
1,1-Dichloroethene			< 0.4	ug/l ug/l	0.4			1	8260B		12/18/2013	CJR	1
cis-1,2-Dichloroethe			< 0.38 < 0.35	ug/l	0.35			i	8260B		12/18/2013	CJR	1
trans-1,2-Dichloroet			< 0.32	ug/l	0.32			1	8260B		12/18/2013	CJR	1
1,2-Dichloropropane			< 0.36	ug/l	0.36			I	8260B		12/18/2013	CJR	48
2,2-Dichloropropand 1,3-Dichloropropand			< 0.33	ug/l	0.33			1	8260B		12/18/2013	CJR	1
Di-isopropyl ether	u		< 0.23	ug/l	0.23		73	i	8260B		12/18/2013	CJR	1
EDB (1,2-Dibromoe	thane)		< 0.44	ug/l	0.44	1	A	1	8260B		12/18/2013	CJR	1
Ethylbenzene			< 0.55	ug/l	0.55	1	.7	1	8260B		12/18/2013	CJR	1
Hexachlorobutadien	e		< 1.5	ug/l	1.5	4	.8	1	8260B		12/18/2013	CJR	1
Isopropylbenzene			< 0.3	ug/l	0.3			1	8260B		12/18/2013	CJR	1
p-Isopropyltoluene			< 0.31	ug/I	0,31			1	8260B		12/18/2013	CJR CJR	! 1
Methylene chloride			< 0.5	ug/l	0.5			1	8260B		12/18/2013	CJR CJR	i İ
Methyl tert-butyl eth	ier (MTBE)		< 0.23	ug/l	0.23			1	8260B		12/18/2013 12/18/2013	CJR CJR	1
Naphthalene			< 1.7	ug/l	1.7			I	8260B		12/18/2013	CJR	1
n-Propylbenzene			< 0.25	ug/l	0.25			1	8260B 8260B		12/18/2013	CJR	Ī
1,1,2,2-Tetrachloroe			< 0.45	ug/l	0.45			1	8260B		12/18/2013	CJR	1
1,1,1,2-Tetrachloroc	thane		< 0.33	ug/l	0.33 0.33			1	8260B		12/18/2013	СJR	1
Tetrachloroethene			< 0.33	ug/l	0.53			1	8260B		12/18/2013	CJR	1
Toluene			< 0.69 < 0.98	ug/l ug/l	0.09			1	8260B		12/18/2013	CJR	1
1,2,4-Trichlorobenze	ene		< 0.98	ug/l	1.8			1	8260B		12/18/2013	CJR	1
1,2,3-Trichlorobenzo 1,1,1-Trichloroethan	one .		< 0.33	ug/l	0.33			1	8260B		12/18/2013	CJR	1
1,1,2-Trichloroethan			< 0.34	ug/i	0.34			1	8260B		12/18/2013	CJR	1
Trichloroethene (TC			< 0.33	ug/l	0.33		1	1	8260B		12/18/2013	CJR	1
Trichlorofluorometh			< 0.71	ug/l	0.71			1	8260B		12/18/2013	CJR	1
1,2,4-Trimethylbenz			< 2.2	ug/l	2.2	6	.9	l	8260B		12/18/2013	CJR	1
1,3,5-Trimethylbenz			< 1.4	ug/l	1.4	4	.5	1	8260B	•	12/18/2013	СJR	1
Vinyl Chloride			< 0.18	ug/l	0.18			1	8260B		12/18/2013	CJR	1
m&p-Xylene			< 0.69	ug/l	0.69			1	8260B		12/18/2013	CJR	1
o-Xylene			< 0.63	ug/l	0.63			1	8260B		12/18/2013	CJR	į 1
SUR - Toluene-d8		103		REC %				1	8260B		12/18/2013	CJR CJR	1 1
SUR - 1,2-Dichloroe	thane-d4	95		REC %				1	8260B		12/18/2013 12/18/2013	CJR CJR	1
SUR - 4-Bromofluor		111		REC %				1	8260B		12/18/2013	CJR	1
SUR - Dibromofluor	omethane	97		REC %				l	8260B		12, 10, 2010		-

"J" Flag: Analyte detected betwee	n LOD and LOQ	LOD Limit of Detection	LOQ Limit of Quantitation
Code	Comment		
1	Laboratory QC within limits.		
4	The continuing calibration st	tandard not within established limits.	
8	Closing calibration standard	not within established limits.	

All solld sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Muchwelfleel

Authorized Signature

Project Name

Project #

DA SWAMP

P101399.40





January 09, 2014

Joe Ramcheck ENDEAVOR ENVIRONMENTAL SERVICES, INC. 2280-B Salscheider Court Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP

Pace Project No.: 4090618

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on December 31, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten

brian.basten@pacelabs.com Project Manager

Enclosures







CERTIFICATIONS

Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414

A2LA Certification #: 2926,01

Alabama Dept of Environmental Management #40770

Alaska Certification #: UST-078 Alaska Certification #MN00064 Arizona Certification #; AZ-0014 Arkansas Certification #: 88-0680 California Certification #: 01155CA Colorado Certification #Pace

Connecticut Certification #: PH-0256 EPA Region 8 Certification #: Pace EPA Region 5 #WD-15J

Florida/NELAP Certification #: E87605

Georgia Certification #: 959 Hawaii Certification #Pace Idaho Certification #: MN00064 Illinois Certification #: 200011 Indiana Certification#C-MN-01 lowa Certification #: 368 Kansas Certification #: E-10167

Kentucky Dept of Envi. Protection - DW #90062

Louisiana Certification #: 03086 Louisiana Certification #: LA080009 Maine Certification #: 2007029 Maryland Certification #: 322

Michigan DEQ Certification #: 9909 Minnesota Certification #: 027-053-137 Mississippi Certification #: Pace Montana Certification #: MT CERT0092 Nevada Certification #: MN 00064 Nebraska Certification #: Pace New Jersey Certification #: MN-002 New York Certification #: 11647 North Carolina Certification #: 530 North Dakota Certification #: R-036 Ohio VAP Certification #: CL101 Oklahoma Certification #: 9507 Oregon Certification #: MN200001 Oregon Certification #: MN300001 Pennsylvania Certification #: 68-00563 Puerto Rico Certification Tennessee Certification #: 02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia/DCLS Certification #: 002521 Virginia/VELAP Certification #: 460163 Washington Certification #: C754

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334

New York Certification #: 11888 North Dakota Certification #: R-150 South Carolina Certification #: 83006001 US Dept of Agriculture #: S-76505 Wisconsin Certification #: 405132750

West Virginia Certification #: 382

Wisconsin Certification #: 999407970



SAMPLE SUMMARY

Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4090618001	MW-1	Water	12/27/13 14:50	12/31/13 10:45
4090618002	MW-3	Water	12/27/13 15:00	12/31/13 10:45
4090618003	MW-4	Water	12/27/13 15:35	12/31/13 10:45
4090618004	MW-2	Water	12/27/13 15:45	12/31/13 10:45
4090618005	MW-5	Water	12/27/13 16:45	12/31/13 10:45
4090618006	SUMP	Water	12/27/13 16:05	12/31/13 10:45
4090618007	POTABLE	Water	12/27/13 16:15	12/31/13 10:45
4090618008	TRIP BLANK	Water	12/27/13 00:00	12/31/13 10:45



SAMPLE ANALYTE COUNT

Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
4090618001	MW-1	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618002	MW-3	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618003	MW-4	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618004	MW-2	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618005	MW-5	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 8260	LAP	64	PASI-G
4090618006	SUMP	EPA 8260	LAP	64	PASI-G
1090618007	POTABLE	EPA 8270 by HVI	RJN	20	PASI-G
		EPA 524.2	LPM	75	PASI-M
1090618008	TRIP BLANK	EPA 8260	LAP	64	PASI-G



Project:

P101399,40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-1	Lab ID:	4090618001	Collected	l: 12/27/1	3 14:50	Received: 12	/31/13 10:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytica	Method: EPA 8	3270 by HVI	Preparation	n Meth	od: EPA 3510			
Acenaphthene	<0.0064	ıg/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 08:35	83-32-9	
Acenaphthylene	<0.0053 t	ıg/L	0.050	0.0053	1	01/02/14 08:17	01/08/14 08:35	208-96-8	
Anthracene	<0.0062 ເ	g/L	0.050	0.0062	1	01/02/14 08:17	01/08/14 08:35	120-12-7	
Benzo(a)anthracene	<0.0065 u	g/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 08:35	56-55-3	
Benzo(a)pyrene	<0.011 u	g/L	0.050	0.011	1	01/02/14 08:17	01/08/14 08:35	50-32-8	
Benzo(b)fluoranthene	<0.0083 u	g/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 08:35	205-99-2	
Benzo(g,h,i)perylene	<0.0090 u	g/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 08:35	191-24-2	
Benzo(k)fluoranthene	<0.012 u	g/L	0.050	0.012	1	01/02/14 08:17	01/08/14 08:35	207-08-9	
Chrysene	<0.0080 u	g/L	0.050	0.0080	1	01/02/14 08:17	01/08/14 08:35	218-01-9	
Dibenz(a,h)anthracene	<0.0074 u	g/L	0.050	0.0074	1	01/02/14 08:17	01/08/14 08:35	53-70-3	
Fluoranthene	0.0098J u		0.050	0.0058	1	01/02/14 08:17			
Fluorene	<0.0072 u	•	0.050	0.0072	1	=	01/08/14 08:35		
ndeno(1,2,3-cd)pyrene	<0.0095 u	-	0.050	0.0095	1	01/02/14 08:17	01/08/14 08:35	193-39-5	
I-Methylnaphthalene	<0.0070 u	g/L	0.050	0.0070	1	01/02/14 08:17	01/08/14 08:35	90-12-0	
2-Methylnaphthalene	0.0074J u		0.050	0.0068	1		01/08/14 08:35		
Naphthalene	0.0082J u		0,050	0.0051	1	01/02/14 08:17	01/08/14 08:35	91-20-3	
Phenanthrene	0.014J u		0,050	0.0055	1		01/08/14 08:35		В
Pyrene	0.011J u		0.050	0.0059	ì	01/02/14 08:17	01/08/14 08:35	129-00-0	_
Surrogates	2,2712	,, =			·	• // / / / / / / / / / / / / / / - / - /			
?-Fluorobiphenyl (S)	78 %		39-130		1	01/02/14 08:17	01/08/14 08:35	321-60-8	
Terphenyl-d14 (S)	128 %		73-155		1	01/02/14 08:17	01/08/14 08:35	1718-51-0	
260 MSV	Analytical	Method: EPA 82	260						
Benzene	<0.50 ug	ı/L	1.0	0.50	1		01/03/14 11:01	71-43-2	
Bromobenzene	<0.48 ug	ı/L	1.0	0.48	1		01/03/14 11:01	108-86-1	
iromochloromethane	<0.49 ug	ı/L	1.0	0.49	1		01/03/14 11:01	74-97-5	
romodichloromethane	<0.45 ug	/L	1.0	0.45	1		01/03/14 11:01		
Iromoform	<0.33 ug	/L	1.0	0.33	1		01/03/14 11:01	75-25-2	
romomethane	<0.43 ug	/L	5.0	0.43	1		01/03/14 11:01	74-83-9	
-Butylbenzene	<0.40 ug	/L	1.0	0.40	1		01/03/14 11:01	104-51-8	
ec-Butylbenzene	<0.60 ug	/L	5.0	0.60	1		01/03/14 11:01	135-98-8	
ert-Butylbenzene	<0.42 ug		1.0	0.42	1		01/03/14 11:01	98-06-6	
arbon tetrachloride	<0.37 ug		1.0	0.37	1		01/03/14 11:01	56-23-5	
hlorobenzene	<0.36 ug		1.0	0.36	1		01/03/14 11:01	108-90-7	
hloroethane	<0.44 ug		1,0	0.44	1		01/03/14 11:01		
hloroform	<0.69 ug		5,0	0.69	1		01/03/14 11:01		
hloromethane	<0.39 ug		1.0	0,39	1		01/03/14 11:01		
-Chlorotoluene	<0.48 ug		1.0	0,48	1		01/03/14 11:01		
-Chlorotoluene	<0.48 ug		1.0	0.48	1		01/03/14 11:01		
2-Dibromo-3-chloropropane	<1.5 ug		5.0	1.5	1		01/03/14 11:01		
ibromochloromethane	<1.9 ug/		5.0	1.9	1		01/03/14 11:01		
2-Dibromoethane (EDB)	<0.38 ug/		1.0	0.38	1		01/03/14 11:01		
bromomethane	<0.48 ug/		1.0	0.48	1		01/03/14 11:01 01/03/14 11:01		
2-Dichlorobenzene	<0.44 ug/		1.0	0.44	1		01/03/14 11:01 01/03/14 11:01		
2-Dichlorobenzene	<0.44 ug/		1.0	0.45	1		01/03/14 11:01 :		
							G 11 G 11 G 11 G 11 G 11 G 11 G 11 G 1	U-T 1-1 U-1	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-1	Lab ID: 409	00618001 Collecte	ed: 12/27/1	3 14:50	Received: 12	2/31/13 10:45 N	latrix: Water	
Parameters	Results I	Units LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Met	thod: EPA 8260						
Dichlorodifluoromethane	<0.40 ug/L	1.0	0.40	1		01/03/14 11:01	75-71-8	
1,1-Dichloroethane	<0.28 ug/L	1.0	0.28	1		01/03/14 11:01	75-34-3	
1,2-Dichloroethane	<0.48 ug/L	1.0	0.48	1		01/03/14 11:01	107-06-2	
1,1-Dichloroethene	<0.43 ug/L	1.0	0.43	1		01/03/14 11:01	75-35-4	
cis-1,2-Dichloroethene	<0.42 ug/L	1.0	0.42	1		01/03/14 11:01	156-59-2	
trans-1,2-Dichloroethene	<0.37 ug/L	1,0	0.37	1		01/03/14 11:01	156-60-5	
1,2-Dichloropropane	<0.50 ug/L	1.0	0.50	1		01/03/14 11:01	78-87-5	
1,3-Dichloropropane	<0.46 ug/L	1.0	0.46	1		01/03/14 11:01	142-28-9	
2,2-Dichioropropane	<0.50 ug/L	1.0	0.50	1		01/03/14 11:01	594-20-7	
1,1-Dichloropropene	<0.51 ug/L	1.0	0,51	1		01/03/14 11:01	563-58-6	
cis-1,3-Dichloropropene	<0.29 ug/L	1.0	0.29	1		01/03/14 11:01	10061-01-5	
rans-1,3-Dichloropropene	<0.30 ug/L	1.0	0.30	1		01/03/14 11:01	10061-02-6	
Diisopropyl ether	<0.50 ug/L	1.0	0.50	1		01/03/14 11:01		
Ethylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:01	100-41-4	
Hexachloro-1,3-butadiene	<1.3 ug/L	5.0	1.3	1		01/03/14 11:01	87-68-3	
sopropylbenzene (Cumene)	<0.34 ug/L	1.0	0.34	1		01/03/14 11:01	98-82-8	
o-Isopropyltoluene	<0.40 ug/L	1.0	0.40	1		01/03/14 11:01	99-87-6	
Methylene Chloride	<0.36 ug/L	1.0	0.36	1		01/03/14 11:01		
vlethyl-tert-butyl ether	<0.49 ug/L	1.0	0.49	1		01/03/14 11:01	1634-04-4	
Naphthalene	<2.5 ug/L	5.0	2.5	1		01/03/14 11:01	91-20-3	
n-Propylbenzene	<0.50 ug/L	1.0	0,50	1		01/03/14 11:01	103-65-1	
Styrene	<0.35 ug/L	1.0	0.35	1		01/03/14 11:01	100-42-5	
1,1,2-Tetrachloroethane	<0.45 ug/L	1.0	0.45	1		01/03/14 11:01	630-20-6	
,1,2,2-Tetrachioroethane	<0.38 ug/L	1.0	0.38	1		01/03/14 11:01	79-34-5	
etrachloroethene	<0.47 ug/L	1.0	0.47	1		01/03/14 11:01	127-18-4	
oluene	<0.44 ug/L	1.0	0.44	1		01/03/14 11:01	108-88 - 3	
,2,3-Trichlorobenzene	<0.77 ug/L	5.0	0.77	1		01/03/14 11:01	87-61-6	
,2,4-Trichlorobenzene	<2.5 ug/L	5.0	2.5	1		01/03/14 11:01	120-82-1	
,1,1-Trichloroethane	<0.44 ug/L	1.0	0.44	1		01/03/14 11:01	71-55-6	
1,2-Trichloroethane	<0.39 ug/L	1.0	0,39	1		01/03/14 11:01		
richloroethene	<0.36 ug/L	1.0	0.36	1		01/03/14 11:01		
richlorofluoromethane	<0.48 ug/L	1.0	0.48	1		01/03/14 11:01	75-69-4	
,2,3-Trichloropropane	<0.47 ug/L	1.0	0.47	1		01/03/14 11:01		
,2,4-Trimethylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:01	95-63-6	
3,5-Trimethylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:01	108-67-8	
inyl chloride	<0.18 ug/L	1.0	0.18	1		01/03/14 11:01		
ı&p-Xylene	<0.82 ug/L	2.0	0.82	1		01/03/14 11:01		
-Xylene	<0.50 ug/L	1,0	0.50	1		01/03/14 11:01		
urrogates	J . –			-				
Bromofluorobenzene (S)	89 %	43-137		1		01/03/14 11:01	460-00-4	
ibromofluoromethane (S)	109 %	70-130		1		01/03/14 11:01	1868-53-7	
oluene-d8 (S)	92 %	55-137		1		01/03/14 11:01	2037-26-5	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-3	Lab ID:	: 4090618002	Collecte	d: 12/27/13	3 15:00	Received: 12	/31/13 10:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytica	l Method: EPA	8270 by HVI	Preparatio	n Meth	od: EPA 3510			
Acenaphthene	<0.0064	ug/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 08:53	83-32-9	
Acenaphthylene	<0.0053	ug/L	0.050	0.0053	1 -	01/02/14 08:17	01/08/14 08:53	208-96-8	
Anthracene	<0.0062 t	ug/L	0.050	0.0062	1	01/02/14 08:17	01/08/14 08:53	120-12-7	
Benzo(a)anthracene	0.0068J t	ug/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 08:53	56-55-3	
Benzo(a)pyrene	<0.011 t	.ig/L	0.050	0.011	1	01/02/14 08:17	01/08/14 08:53	50-32-8	
Benzo(b)fluoranthene	0,0091J t	ıg/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 08:53	205-99-2	
Benzo(g,h,i)perylene	<0,0090 (ig/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 08:53	191-24-2	
Benzo(k)fluoranthene	<0.012 ∪	ıg/L	0.050	0.012	1	01/02/14 08:17	01/08/14 08:53	207-08-9	
Chrysene	<0.0080 t	ıg/L	0,050	0.0080	1	01/02/14 08:17	01/08/14 08:53	218-01-9	
Dibenz(a,h)anthracene	<0.0074 L	_	0.050	0.0074	1	01/02/14 08:17		53-70-3	
Fluoranthene	<0.0058 t	-	0,050	0.0058	1	01/02/14 08:17			
Fluorene	<0.0072 L		0.050	0,0072	1		01/08/14 08:53		
Indeno(1,2,3-cd)pyrene	<0.0095 u	-	0.050	0.0095	1	01/02/14 08:17			
1-Methylnaphthalene	<0.0070 u	-	0.050	0.0070	1	-	01/08/14 08:53		
2-Methylnaphthalene	<0.0068 u	_	0.050	0.0068	1	-	01/08/14 08:53		
Vaphthalene	0.0095J u	=	0.050	0.0051	1		01/08/14 08:53		
Phenanthrene	0,011J u	=	0.050	0.0055	1	01/02/14 08:17			В
Pyrene	0.0065J u		0.050	0.0059	1	01/02/14 08:17			
Surrogates	0,00000 4	.gr = _	0.000	0.0000	,	8 1702/17 00:11	0 11 001 11 00100	120 00 0	
2-Fluorobiphenyl (S)	71 %	6	39-130		1	01/02/14 08:17	01/08/14 08:53	321-60-8	
Ferphenyl-d14 (S)	119 %		73-155		1		01/08/14 08:53		
260 MSV	Analytical	Method: EPA 8	260						
Benzene	<0.50 u	σ/L	1.0	0.50	1		01/03/14 11:24	71-43-2	
Bromobenzene	<0.48 u	-	1.0	0.48	1		01/03/14 11:24		
Bromochloromethane	<0.49 u		1.0	0.49	1		01/03/14 11:24		
Bromodichloromethane	<0.45 u		1.0	0.45	1		01/03/14 11:24		
romoform	<0.33 ug	-	1.0	0.33	1		01/03/14 11:24		
romomethane	<0.43 u	-	5.0	0.43	1		01/03/14 11:24		
-Butylbenzene	<0.40 ug	=	1.0	0.40	1		01/03/14 11:24		
ec-Butylbenzene	<0.60 u	=	5,0	0.60	1.		01/03/14 11:24		
ec-butylbenzene ert-Butylbenzene	<0.42 ug	•	1.0	0.42	1		01/03/14 11:24		
•	<0.37 ug	-	1.0	0.42	1		01/03/14 11:24		
arbon tetrachloride		-	1.0				01/03/14 11:24		
hlorobenzene	<0.36 ug			0.36	1				
hloroethane	<0.44 ug		1.0	0.44	1		01/03/14 11:24		
hloroform	<0.69 ug	•	5.0	0.69	1		01/03/14 11:24		
hloromethane	<0.39 ug		1.0	0,39	1		01/03/14 11:24		
Chlorotoluene	<0.48 ug		1.0	0.48	1		01/03/14 11:24		
Chlorotoluene	<0.48 ug	•	1.0	0.48	1		01/03/14 11:24		
2-Dibromo-3-chloropropane	<1.5 ug		5.0	1,5	1		01/03/14 11:24		
bromochloromethane	<1.9 ug		5.0	1.9	1		01/03/14 11:24		
2-Dibromoethane (EDB)	<0.38 ug		1.0	0.38	1		01/03/14 11:24		
ibromomethane	<0.48 ug	ı/L	1.0	0.48	1		01/03/14 11:24		
2-Dichlorobenzene	<0.44 ug	/L	1.0	0.44	1		01/03/14 11:24		
3-Dichlorobenzene	<0.45 ug	/L	1.0	0.45	1		01/03/14 11:24	541-73-1	

REPORT OF LABORATORY ANALYSIS

0.43

1

1.0

<0.43 ug/L

1,4-Dichlorobenzene

01/03/14 11:24 106-46-7



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-3	Lab ID:	4090618002	Collected	i: 12/27/1	3 15:00	Received:	12/31/13 10:45	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytica	l Method: EPA 8	260						
Dichlorodifluoromethane	<0.40	ıg/L	1.0	0.40	1		01/03/14 11:2	4 75-71-8	
1,1-Dichloroethane	<0.28 ∪	ıg/L	1.0	0.28	1		01/03/14 11:2	4 75-34-3	
1,2-Dichloroethane	<0.48 ι	ig/L	1.0	0.48	1		01/03/14 11:2	4 107-06-2	
1,1-Dichloroethene	<0.43 t	ıg/L	1.0	0.43	1		01/03/14 11:24	4 75-35-4	
cis-1,2-Dichloroethene	< 0.42 ≀	ıg/L	1.0	0.42	1		01/03/14 11:24	4 156-59-2	
trans-1,2-Dichloroethene	<0.37 ∟	ıg/L	1.0	0.37	1		01/03/14 11:24	4 156-60-5	
1,2-Dichloropropane	<0.50 U	ıg/L	1.0	0.50	1		01/03/14 11:24	1 78-87-5	
1,3-Dichioropropane	<0.46 u	ıg/L	1.0	0.46	1		01/03/14 11:24	142-28-9	
2,2-Dichloropropane	<0.50 u	g/L	1.0	0.50	1		01/03/14 11:24		
1,1-Dichloropropene	< 0.51 u	g/L	1.0	0.51	1		01/03/14 11:24	563-58-6	
cis-1,3-Dichloropropene	<0.29 u	•	1.0	0.29	1			10061-01-5	
rans-1,3-Dichloropropene	<0.30 u	-	1.0	0.30	1		01/03/14 11:24	10061-02-6	
Diisopropyl ether	<0.50 u	~	1.0	0.50	1		01/03/14 11:24	108-20-3	
Ethylbenzene	<0.50 u	~	1.0	0.50	1		01/03/14 11:24	100-41-4	
lexachloro-1,3-butadiene	<1.3 u	-	5.0	1.3	1		01/03/14 11:24		
sopropylbenzene (Cumene)	<0.34 u	~	1.0	0.34	1		01/03/14 11:24		
o-Isopropyltoluene	<0.40 u	_	1.0	0.40	1		01/03/14 11:24		
viethylene Chloride	<0.36 u	_	1.0	0.36	1		01/03/14 11:24		
/lethyl-tert-butyl ether	<0.49 u	_	1.0	0.49	1		01/03/14 11:24		
Naphthalene	<2.5 u	_	5.0	2.5	1		01/03/14 11:24	91-20-3	
-Propylbenzene	<0.50 u	='	1.0	0.50	1		01/03/14 11:24		
Styrene	<0.35 ug	•	1.0	0.35	1		01/03/14 11:24		
,1,1,2-Tetrachloroethane	< 0.45 ug	•	1.0	0.45	1		01/03/14 11:24		
.1.2.2-Tetrachloroethane	<0.38 ug	-	1.0	0.38	1		01/03/14 11:24		
etrachloroethene	<0.47 ug	•	1,0	0.47	1		01/03/14 11:24		
oluene	<0.44 ug	-	1.0	0.44	1		01/03/14 11:24		
,2,3-Trichlorobenzene	<0.77 ug	•	5.0	0.77	1		01/03/14 11:24		
,2,4-Trichlorobenzene	<2.5 ug		5.0	2.5	1		01/03/14 11:24		
,1,1-Trichloroethane	<0.44 ug	•	1.0	0.44	1		01/03/14 11:24	71-55-6	
,1,2-Trichloroethane	<0.39 ug	•	1.0	0.39	1		01/03/14 11:24		
richloroethene	<0.36 ug		1.0	0.36	1		01/03/14 11:24		
richlorofluoromethane	<0.48 ug		1.0	0.48	1		01/03/14 11:24		
2,3-Trichloropropane	<0.47 ug		1.0	0.47	1		01/03/14 11:24		
2,4-Trimethylbenzene	<0.50 ug		1.0	0.50	1		01/03/14 11:24		
3.5-Trimethylbenzene	<0.50 ug		1.0	0.50	1		01/03/14 11:24		
inyl chloride	<0.18 ug		1.0	0.18	1		01/03/14 11:24		
&p-Xylene	<0.82 ug		2.0	0.82	1		01/03/14 11:24		
-Xylene	<0.50 ug		1.0	0.50	1		01/03/14 11:24		
urrogates		· 		0.00	•		2,100,111,1121	,, -	
Bromofluorobenzene (S)	89 %		43-137		1		01/03/14 11:24	460-00-4	
bromofluoromethane (S)	109 %		70-130		1		01/03/14 11:24		
oluene-d8 (S)	94 %		55-137		1		01/03/14 11:24		



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-4	Lab iD:	4090618003	Collected	i: 12/27/13	3 15:35	Received: 12	/31/13 10:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by HVI	Analytica	I Method: EPA 8	3270 by HVI	Preparatio	n Meth	od: EPA 3510			
Acenaphthene	<0.0064	ug/L	0.050	0.0064	1	01/02/14 08:17	01/08/14 09:47	83-32-9	
Acenaphthylene	<0.0053 €	ug/L	0.050	0.0053	1	01/02/14 08:17	01/08/14 09:47	208-96-8	
Anthracene	<0.0062 ı	ug/L	0.050	0.0062	1	01/02/14 08:17			
Benzo(a)anthracene	<0,0065 t	ıg/L	0.050	0.0065	1	01/02/14 08:17	01/08/14 09:47	56-55-3	
Benzo(a)pyrene	<0.011 t		0.050	0.011	1	01/02/14 08:17	01/08/14 09:47	50-32-8	
Benzo(b)fluoranthene	<0,0083 ເ	ıg/L	0.050	0.0083	1	01/02/14 08:17	01/08/14 09:47	205-99-2	
Benzo(g,h,i)perylene	<0.0090 t	ıg/L	0.050	0.0090	1	01/02/14 08:17	01/08/14 09:47	1 91 - 24-2	
Benzo(k)fluoranthene	<0.012 ∪	ıg/L	0.050	0.012	1	01/02/14 08:17	01/08/14 09:47	207-08-9	
Chrysene	<0.0080 u	ıg/L	0.050	0.0080	1	01/02/14 08:17	01/08/14 09:47	218-01-9	
Dibenz(a,h)anthracene	<0.0074 U	ıg/L	0.050	0.0074	1	01/02/14 08:17	01/08/14 09:47	53-70-3	
Fluoranthene	0.0068J u	ıg/L	0.050	0,0058	1	01/02/14 08:17	01/08/14 09:47	206-44-0	
Fluorene	<0.0072 u	ıg/L	0.050	0.0072	1	01/02/14 08:17	01/08/14 09:47	86-73-7	
Indeno(1,2,3-cd)pyrene	<0.0095 u	g/L	0.050	0.0095	1	01/02/14 08:17	01/08/14 09:47	193-39-5	
1-Methylnaphthalene	<0.0070 u	g/L	0.050	0.0070	1	01/02/14 08:17	01/08/14 09:47	90-12-0	
2-Methylnaphthalene	<0.0068 u	g/L	0.050	8800.0	1	01/02/14 08:17	01/08/14 09:47	91-57-6	
Naphthalene	0.0056J u	g/L	0.050	0.0051	1	01/02/14 08:17	01/08/14 09:47	91-20-3	
Phenanthrene	0.011J u	_	0.050	0.0055	1	01/02/14 08:17	01/08/14 09:47	85-01-8	В
Pyrene	0.0075J u	-	0.050	0.0059	1	01/02/14 08:17	01/08/14 09:47	129-00-0	
Surrogates		•							
2-Fluorobiphenyl (S)	79 %	ó	39-130		1	01/02/14 08:17	01/08/14 09:47	321-60-8	
Ferphenyl-d14 (S)	. 127 %	Ö	73-155		1	01/02/14 08:17	01/08/14 09:47	1718-51 -0	
260 MSV	Analytical	Method: EPA 82	260						
3enzene	<0.50 u	g/L	1.0	0.50	1		01/03/14 11:47	71-43-2	
3romobenzene	<0.48 u	g/L	1.0	0.48	1		01/03/14 11:47	108-86-1	
Bromochloromethane	<0.49 ug	g/L	1.0	0.49	1		01/03/14 11:47	74-97-5	
Bromodichloromethane	<0.45 ug	g/L	1.0	0.45	1		01/03/14 11:47	75-27-4	
Bromoform	<0.33 ug	g/L	1.0	0.33	1		01/03/14 11:47	75-25-2	
Bromomethane	<0.43 uç	g/L	5.0	0.43	1		01/03/14 11:47	74-83-9	
-Butylbenzene	<0.40 ug	g/L	1.0	0.40	1	•	01/03/14 11:47	104-51-8	
ec-Butylbenzene	<0.60 ug	g/L	5.0	0.60	1		01/03/14 11:47	135-98-8	
ert-Butylbenzene	<0.42 ug	g/L	1.0	0.42	1		01/03/14 11:47	98-06-6	
arbon tetrachloride	<0.37 ug	g/L	1.0	0.37	1		01/03/14 11:47	56-23-5	
chlorobenzene	<0.36 ug		1.0	0.36	1		01/03/14 11:47	108-90-7	
hloroethane	<0.44 ug	•	1.0	0.44	1		01/03/14 11:47		
hloroform	<0.69 ug	5	5.0	0.69	1		01/03/14 11:47		
hloromethane	<0.39 ug	•	1.0	0.39	1		01/03/14 11:47		
-Chlorotoluene	<0.48 ug		1.0	0.48	1		01/03/14 11:47		
-Chlorotoluene	<0.48 ug	•	1.0	0.48	1		01/03/14 11:47		
,2-Dibromo-3-chloropropane	<1.5 ug		5.0	1.5	1		01/03/14 11:47		
ibromochloromethane	<1.9 ug		5.0	1.9	1		01/03/14 11:47		
,2-Dibromoethane (EDB)	<0.38 ug		1.0	0.38	1		01/03/14 11:47		
ibromomethane	<0.48 ug		1.0	0.48	1		01/03/14 11:47		
2-Dichlorobenzene	<0.44 ug		1.0	0.44	1		01/03/14 11:47		
3-Dichlorobenzene	<0.45 ug		1.0	0.45	1		01/03/14 11:47		
	·uru uy		1.0	□. ₹₩			- 11001 T T 1107		

REPORT OF LABORATORY ANALYSIS



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-4	Lab ID: 409	0618003 Collecte	ed: 12/27/1	3 15:35	Received: 1	2/31/13 10:45 M	/latrix: Water	
Parameters	Results l	Jnits LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical Met	hod: EPA 8260						
Dichlorodifluoromethane	<0.40 ug/L	1.0	0.40	1		01/03/14 11:47	7 75-71-8	
1,1-Dichloroethane	<0.28 ug/L	1.0	0,28	1		01/03/14 11:47	7 75-34-3	
1,2-Dichloroethane	<0.48 ug/L	1.0	0.48	1		01/03/14 11:47	7 107-06 - 2	
1,1-Dichloroethene	<0.43 ug/L	1.0	0.43	1		01/03/14 11:47	7 75-35-4	
cis-1,2-Dichloroethene	<0.42 ug/L	1.0	0.42	1		01/03/14 11:47	7 156-59-2	
trans-1,2-Dichloroethene	<0.37 ug/L	1.0	0.37	1		01/03/14 11:47	7 156-60-5	
1,2-Dichloropropane	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47		
1,3-Dichloropropane	<0.46 ug/L	1.0	0.46	1		01/03/14 11:47	7 142-28-9	
2,2-Dichloropropane	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47	594-20-7	
1,1-Dichloropropene	<0.51 ug/L	1.0	0.51	1		01/03/14 11:47	7 563-58-6	
cis-1,3-Dichloropropene	<0.29 ug/L	1.0	0.29	1		01/03/14 11:47	10061-01-5	
trans-1,3-Dichloropropene	<0.30 ug/L	1.0	0.30	1		01/03/14 11:47	10061-02-6	
Diisopropyl ether	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47	108-20-3	
Ethylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47		
Hexachloro-1,3-butadiene	<1.3 ug/L	5.0	1.3	1		01/03/14 11:47	87-68-3	
sopropylbenzene (Cumene)	<0.34 ug/L	1.0	0.34	1		01/03/14 11:47	98-82-8	
p-Isopropyltoluene	<0.40 ug/L	1.0	0.40	1		01/03/14 11:47		
Vlethylene Chloride	<0.36 ug/L	1.0	0.36	1		01/03/14 11:47	75-09-2	
Viethyl-tert-butyl ether	<0.49 ug/L	1.0	0.49	1		01/03/14 11:47	1634-04-4	
Naphthalene	<2.5 ug/L	5.0	2.5	1		01/03/14 11:47	91-20-3	
n-Propylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47		
Styrene	<0.35 ug/L	1.0	0,35	1		01/03/14 11:47		
1,1,1,2-Tetrachloroethane	<0.45 ug/L	1.0	0.45	1		01/03/14 11:47		
1,1,2,2-Tetrachloroethane	<0.38 ug/L	1.0	0.38	1		01/03/14 11:47	79-34-5	
Tetrachloroethene	<0.47 ug/L	1.0	0.47	1		01/03/14 11:47		
foluene	<0.44 ug/L	1.0	0.44	1		01/03/14 11:47	108-88 - 3	
,2,3-Trichlorobenzene	<0.77 ug/L	5.0	0.77	1		01/03/14 11:47	87-61-6	
,2,4-Trichlorobenzene	<2.5 ug/L	5.0	2.5	1		01/03/14 11:47		
,1,1-Trichloroethane	<0.44 ug/L	1.0	0.44	1		01/03/14 11:47	71-55-6	
,1,2-Trichloroethane	<0.39 ug/L	1.0	0.39	1		01/03/14 11:47		
richloroethene	<0.36 ug/L	1.0	0.36	1		01/03/14 11:47		
richlorofluoromethane	<0.48 ug/L	1.0	0.48	1		01/03/14 11:47	75-69-4	
,2,3-Trichloropropane	<0.47 ug/L	1.0	0.47	1		01/03/14 11:47		
,2,4-Trimethylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47	95-63-6	
3,5-Trimethylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47	108-67-8	
inyl chloride	<0.18 ug/L	1.0	0.18	1		01/03/14 11:47	75-01-4	
n&p-Xylene	<0.82 ug/L	2.0	0.82	1		01/03/14 11:47		
-Xylene	<0.50 ug/L	1.0	0.50	1		01/03/14 11:47	95-47-6	
urrogates								
-Bromofluorobenzene (S)	88 %	43-137		1		01/03/14 11:47		
ibromofluoromethane (S)	111 %	70-130		1		01/03/14 11:47		
oluene-d8 (S)	92 %	55-137		1		01/03/14 11:47	2037-26-5	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Parameters 8270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	Analytical Method: EF <3.2 ug/L <2.6 ug/L <3.1 ug/L <3.2 ug/L <5.3 ug/L <4.2 ug/L <4.5 ug/L <4.5 ug/L <4.5 ug/L <4.7 ug/L <5.8 ug/L <4.8 ug/L <5.9 ug/L <4.9 ug/L <4.9 ug/L <4.9 ug/L <4.9 ug/L <4.9 ug/L	LOQ 25.0 25.0 25.0 25.0 25.0 25.0 25.0 25.0	LOD Preparati 3.2 2.6 3.1 3.2 5.3	500 500 500	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:05 01/08/14 10:05	CAS No.	Qua
Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<3.2 ug/L <2.6 ug/L <3.1 ug/L <3.2 ug/L <5.3 ug/L <4.2 ug/L <4.5 ug/L <4.5 ug/L <4.5 ug/L	25.0 25.0 25.0 25.0 25.0 25.0 25.0	3.2 2.6 3.1 3.2	500 500 500	01/02/14 08:17 01/02/14 08:17		83-32-9	
Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Phenanthrene Phenanthrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<2.6 ug/L <3.1 ug/L <3.2 ug/L <5.3 ug/L <4.2 ug/L <4.5 ug/L <4.5 ug/L <4.5 ug/L <5.8 ug/L	25.0 25.0 25.0 25.0 25.0 25.0	2.6 3.1 3.2	500 500	01/02/14 08:17		83-32-9	
Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(x)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Phenanthrene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<3.1 ug/L <3.2 ug/L <5.3 ug/L <4.2 ug/L <4.5 ug/L <4.5 ug/L <4.5 ug/L <5.8 ug/L	25.0 25.0 25.0 25.0 25.0	3.1 3.2	500		01/08/14 10:05		
Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<3.2 ug/L <5.3 ug/L <4.2 ug/L <4.5 ug/L <5.8 ug/L <4.0 ug/L	25.0 25.0 25.0 25.0	3.2		04/00/44 00:47		208-96-8	
Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Phenanthrene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<5,3 ug/L <4.2 ug/L <4.5 ug/L <5.8 ug/L <4.0 ug/L	25.0 25.0 25.0			01/02/14 08:17	01/08/14 10:05	120-12-7	
Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluoranthene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<4.2 ug/L <4.5 ug/L <5.8 ug/L <4.0 ug/L	25.0 25.0	5.3	500	01/02/14 08:17	01/08/14 10:05	56-55-3	
Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<4.5 ug/L <5.8 ug/L <4.0 ug/L	25.0		500	01/02/14 08:17	01/08/14 10:05	50-32-8	
Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<5.8 ug/L <4.0 ug/L		4.2	500	01/02/14 08:17	01/08/14 10:05	205-99-2	
Chrysene Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<4.0 ug/L	25.0	4.5	500	01/02/14 08:17	01/08/14 10:05	191-24-2	
Dibenz(a,h)anthracene Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	-	M-W-1-W	5.8	500	01/02/14 08:17	01/08/14 10:05	207-08-9	
Fluoranthene Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<3,7 ua/L	25.0	4.0	500	01/02/14 08:17	01/08/14 10:05	218-01-9	
Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)		25.0	3.7	500	01/02/14 08:17	01/08/14 10:05	53-70-3	
Fluorene Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<2.9 ug/L	25.0	2,9	500	01/02/14 08:17			
Indeno(1,2,3-cd)pyrene 1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<3.6 ug/L	25.0	3,6	500	01/02/14 08:17			
1-Methylnaphthalene 2-Methylnaphthalene Naphthalene Phenanthrene Pyrene <i>Surrogates</i> 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<4.8 ug/L	25.0	4.8	500	01/02/14 08:17			
2-Methylnaphthalene Naphthalene Phenanthrene Pyrene <i>Surrogates</i> 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	35.5 ug/L	25.0	3,5	500	01/02/14 08:17			
Naphthalene Phenanthrene Pyrene <i>Surrogates</i> 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	72.8 ug/L	25,0	3.4	500	01/02/14 08:17			
Phenanthrene Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	241 ug/L	25.0	2.6	500		01/08/14 10:05		
Pyrene Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<2.8 ug/L	25.0	2.8	500				
Surrogates 2-Fluorobiphenyl (S) Terphenyl-d14 (S)	<3.0 ug/L	25.0	3.0	500		01/08/14 10:05		
2-Fluorobiphenyl (S) Terphenyl-d14 (S)	.o.o ugi E	20.0	0.0	000	0110271100111	01.00/11.10.00	1.2.000	
Terphenyl-d14 (S)	0 %	39-130		500	01/02/14 08:17	01/08/14 10:05	321-60-8	S4
3260 MSV	0 %	73-155		500		01/08/14 10:05		S4
	Analytical Method: EPA	\ 8260						
3enzene	12600 ug/L	100	50.0	100		01/03/14 09:30	71-43-2	
Bromobenzene	<48.4 ug/L	100	48.4	100		01/03/14 09:30	108-86-1	
3romochloromethane	<49.2 ug/L	100	49,2	100		01/03/14 09:30	74-97-5	
3romodichloromethane	<45.3 ug/L	100	45.3	100		01/03/14 09:30	75-27-4	
3romoform	<32.7 ug/L	100	32.7	100		01/03/14 09:30	75-25-2	
3romomethane	<43.0 ug/L	500	43.0	100		01/03/14 09:30	74-83-9	
ı-Butylbenzene	<40.0 ug/L	100	40.0	100		01/03/14 09:30		
ec-Butylbenzene	<60.5 ug/L	500	60.5	100		01/03/14 09:30	135-98-8	
ert-Butylbenzene	<42.4 ug/L	100	42.4	100		01/03/14 09:30	98-06-6	
Carbon tetrachloride	<36.5 ug/L	100	36.5	100		01/03/14 09:30		
Chlorobenzene	<35.8 ug/L	100	35,8	100		01/03/14 09:30		
Chloroethane	<44.4 ug/L	100	44.4	100		01/03/14 09:30		
Chloroform	<68.9 ug/L	500	68.9	100		01/03/14 09:30		
Chloromethane	<38.8 ug/L	100	38.8	100		01/03/14 09:30		
-Chlorotoluene	<47.7 ug/L	100	47.7	100		01/03/14 09:30		
-Chlorotoluene	<48.4 ug/L	100	48.4	100		01/03/14 09:30		
,2-Dibromo-3-chloropropane	<150 ug/L	500	150	100		01/03/14 09:30		
ibromochloromethane	<190 ug/L	500	190	100		01/03/14 09:30		
,2-Dibromoethane (EDB)	<38.1 ug/L	100	38,1	100		01/03/14 09:30 01/03/14 09:30		
ibromomethane	<38.1 ug/L <48.0 ug/L	100	48.0	100		01/03/14 09:30 01/03/14 09:30		
ibromomethane .2-Dichlorobenzene	_					01/03/14 09:30		
	<43.9 ug/L	100	43.9 45.1	100				
3-Dichlorobenzene 4-Dichlorobenzene	<45.1 ug/L	100 100	45.1 43.4	100 100		01/03/14 09:30 8 01/03/14 09:30 °		



Project:

Date: 01/09/2014 04:39 PM

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: MW-2	Lab ID:	Lab ID: 4090618004 Collected:				Received: 1:	2/31/13 10:45 N	//atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
8260 MSV	Analytical	Method: EPA 8	260						
Dichlorodifluoromethane	<40.1 u	g/L	100	40.1	100		01/03/14 09:30	75-71-8	
1,1-Dichloroethane	<28.5 ug	g/L	100	28.5	100		01/03/14 09:30	75-34-3	
1,2-Dichloroethane	<47.6 ug	g/L	100	47.6	100		01/03/14 09:30	107-06-2	
1,1-Dichloroethene	<42.7 ug	g/L	100	42.7	100		01/03/14 09:30	75-35-4	
cis-1,2-Dichloroethene	<41.9 ug	g/L	100	41.9	100		01/03/14 09:30	156-59-2	
rans-1,2-Dichloroethene	<37.1 ug	; /∟	100	37.1	100		01/03/14 09:30	156-60-5	
1,2-Dichloropropane	<49.8 ug	J/L	100	49.8	100		01/03/14 09:30	78-87-5	
1,3-Dichloropropane	<46.3 ug	ı/L	100	46,3	100		01/03/14 09:30	142-28-9	
2,2-Dichloropropane	<50.0 นั้	ı/L	100	50,0	100		01/03/14 09:30	594-20-7	
1-Dichloropropene	<50.7 ug	ı/L	100	50.7	100		01/03/14 09:30	563-58-6	
sis-1,3-Dichloropropene	<29.0 ug	/L	100	29.0	100		01/03/14 09:30	10061-01-5	
rans-1,3-Dichloropropene	< 30.3 ug	/L	100	30.3	100		01/03/14 09:30	10061-02-6	
Dilsopropyl ether	<50.0 ug		100	50.0	100		01/03/14 09:30		
Ethylbenzene	1440 ug		100	50.0	100		01/03/14 09:30		
lexachloro-1,3-butadiene	<126 ug		500	126	100		01/03/14 09:30		
sopropylbenzene (Cumene)	38.0J ug		100	34.1	100		01/03/14 09:30		
-Isopropyltoluene	<39.7 ug		100	39.7	100		01/03/14 09:30		
Methylene Chloride	<35.9 ug		100	35.9	100		01/03/14 09:30		
Methyl-tert-butyl ether	288 ug		100	49.4	100		01/03/14 09:30		
laphthalene	<250 ug		500	250	100		01/03/14 09:30		
-Propylbenzene	122 ug		100	50.0	100		01/03/14 09:30		
tyrene	<35.0 ug		100	35.0	100		01/03/14 09:30		
1,1,2-Tetrachioroethane	<45.0 ug		100	45.0	100		01/03/14 09:30		
1,2,2-Tetrachloroethane	<38.4 ug		100	38.4	100		01/03/14 09:30		
etrachloroethene	<47.2 ug		100	47.2	100		01/03/14 09:30		
oluene	11900 ug		100	43,9	100		01/03/14 09:30		
,2,3-Trichlorobenzene	<76.8 ug/		500	76.8	100		01/03/14 09:30		
2,4-Trichlorobenzene	<250 ug/		500	250	100		01/03/14 09:30		
1,1-Trichloroethane	<44.3 ug/		100	44.3	100		01/03/14 09:30		
1,2-Trichloroethane	< 39.0 ug/		100	39.0	100		01/03/14 09:30		
ichloroethene	<36.4 ug/		100	36.4	100		01/03/14 09:30		
ichlorofluoromethane	<47.7 ug/		100	47.7	100		01/03/14 09:30		
	<46.8 ug/		100	46.8	100		01/03/14 09:30		
2,3-Trichloropropane	1020 ug/		100	50,0	100		01/03/14 09:30		
2,4-Trimethylbenzene					100		01/03/14 09:30		
3,5-Trimethylbenzene	246 ug/		100 100	50.0 18.5	100		01/03/14 09:30		
nyl chloride	<18.5 ug/								
&p-Xylene	4000 ug/		200	81.7	100		01/03/14 09:30		
Xylene	1690 ug/	L	100	50.0	100		01/03/14 09:30	₩D-4/•6	
urrogates Bramafluarahanzana (S)	96 %		43-137		100		01/03/14 09:30	460-00-4	
Bromofluorobenzene (S)			70-130		100				
bromofluoromethane (S)	108 %		10-130		100		01/03/14 09:30	1000-03-7	

REPORT OF LABORATORY ANALYSIS



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Date: 01/09/2014 04:39 PM

Sample: MW-5	Lab ID: 40906180	005 Collected	i: 12/27/	13 16:45	Received: 12	/31/13 10:45 M	latrix: Water	
Parameters	Results Units	LOQ	LOD	ÐF	Prepared	Analyzed	CAS No.	Qua
8270 MSSV PAH by HVI	Analytical Method: E	PA 8270 by HVI	Preparat	ion Meth	od: EPA 3510			
Acenaphthene	<25.6 ug/L	200	25.6	4000	01/02/14 08:17	01/08/14 13:06	83-32-9	
Acenaphthylene	<21.2 ug/L	200	21,2	4000	01/02/14 08:17	01/08/14 13:06	208-96-8	
Anthracene	<24.8 ug/L	200	24.8	4000	01/02/14 08:17	01/08/14 13:06	120-12-7	
Benzo(a)anthracene	<26.0 ug/L	200	26.0	4000	01/02/14 08:17	01/08/14 13:06	56-55-3	
Benzo(a)pyrene	<42.4 ug/L	200	42.4	4000	01/02/14 08:17	01/08/14 13:06	50-32-8	
Benzo(b)fluoranthene	<33.2 ug/L	200	33.2	4000	01/02/14 08:17	01/08/14 13:06	205-99-2	
Benzo(g,h,i)perylene	<36.0 ug/L	200	36.0	4000	01/02/14 08:17	01/08/14 13:06	191-24-2	
Benzo(k)fluoranthene	<46.0 ug/L	200	46.0	4000	01/02/14 08:17	01/08/14 13:06	207-08-9	
Chrysene	<32.0 ug/L	200	32,0	4000	01/02/14 08:17	01/08/14 13:06	218-01-9	
Dibenz(a,h)anthracene	<29.6 ug/L	200	29.6	4000	01/02/14 08:17	01/08/14 13:06	53-70-3	
Fluoranthene	<23.2 ug/L	200	23.2	4000	01/02/14 08:17	01/08/14 13:06	206-44-0	
Fluorene	<28.8 ug/L	200	28.8	4000	01/02/14 08:17			
Indeno(1,2,3-cd)pyrene	<38.0 ug/L	200	38.0	4000	01/02/14 08:17	01/08/14 13:06	193-39-5	
1-Methylnaphthalene	686 ug/L	200	28.0	4000	01/02/14 08:17	01/08/14 13:06	90-12-0	
2-Methylnaphthalene	1510 ug/L	200	27.2	4000	01/02/14 08:17	01/08/14 13:06	91-57-6	
Naphthalene	2290 ug/L	200	20.4	4000	01/02/14 08:17	01/08/14 13:06	91-20-3	
Phenanthrene	<22.0 ug/L	200	22.0	4000	01/02/14 08:17	01/08/14 13:06	85-01-8	
Pyrene	<23.6 ug/L	200	23,6	4000	01/02/14 08:17	01/08/14 13:06	129-00-0	
Surrogates	v							
2-Fluorobiphenyl (S)	0 %	39-130		4000	01/02/14 08:17	01/08/14 13:06	321-60-8	S4 ·
Ferphenyl-d14 (S)	0 %	73-155		4000	01/02/14 08:17	01/08/14 13:06	1718-51-0	S4
3260 MSV	Analytical Method: EF	'A 8260						
Benzene	8650 ug/L	400	200	400		01/03/14 09:53	71-43 - 2	
Bromobenzene	<193 ug/L	400	193	400	•	01/03/14 09:53	108-86-1	
3romochloromethane	<197 ug/L	400	197	400		01/03/14 09:53	74-97-5	
3romodichloromethane	<181 ug/L	400	181	400		01/03/14 09:53	75-27-4	
Bromoform	<131 ug/L	400	131	400		01/03/14 09:53	75-25-2	
Bromomethane	<172 ug/L	2000	172	400		01/03/14 09:53	74-83-9	
-Butylbenzene	<160 ug/L	400	160	400		01/03/14 09:53	104-51 <i>-</i> 8	
ec-Butylbenzene	<242 ug/L	2000	242	400		01/03/14 09:53	135-98-8	
ert-Butylbenzene	<170 ug/L	400	170	400		01/03/14 09:53	98-06-6	
Carbon tetrachloride	<146 ug/L	400	146	400		01/03/14 09:53	56-23-5	
Chlorobenzene	<143 ug/L	400	143	400		01/03/14 09:53	108-90-7	
chloroethane	<177 ug/L	400	177	400		01/03/14 09:53	75-00-3	
chloroform	<275 ug/L	2000	275	400		01/03/14 09:53	67-66-3	
hloromethane	<155 ug/L	400	155	400		01/03/14 09:53	74-87-3	
-Chlorotoluene	<191 ug/L	400	191	400		01/03/14 09:53	95-49-8	
-Chlorotoluene	<193 ug/L	400	193	400		01/03/14 09:53	106-43-4	
,2-Dibromo-3-chloropropane	<599 ug/L	2000	599	400		01/03/14 09:53	96-12-8	
ibromochioromethane	<758 ug/L	2000	758	400		01/03/14 09:53	124-48-1	
2-Dibromoethane (EDB)	<152 ug/L	400	152	400		01/03/14 09:53	106-93-4	
ibromomethane	<192 ug/L	400	192	400		01/03/14 09:53		
2-Dichlorobenzene	<175 ug/L	400	175	400		01/03/14 09:53		
3-Dichlorobenzene	<180 ug/L	400	180	400		01/03/14 09:53		
4-Dichlorobenzene	<174 ug/L	400	174	400		01/03/14 09:53		



Project:

P101399.40 DA SWAMP

Pace Project No.: 40

4090618

Sample: MW-5	Lab iD:	4090618005	Collected:	12/27/	13 16:45	Received: 1	2/31/13 10:45	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical	Method: EPA 8	260					-	•
Dichiorodifluoromethane	<160 u	g/L	400	160	400		01/03/14 09:5	3 75-71-8	
1,1-Dichloroethane	<114 u	g/L	400	114	400		01/03/14 09:5	3 75-34-3	
1,2-Dichloroethane	<191 u	g/L	400	191	400		01/03/14 09:5	3 107-06-2	
1,1-Dichloroethene	<171 u	g/L	400	171	400		01/03/14 09:5	3 75-35-4	
cis-1,2-Dichloroethene	<168 u	g/L	400	168	400		01/03/14 09:5	3 156-59-2	
trans-1,2-Dichloroethene	<149 u	g/L	400	149	400		01/03/14 09:5	3 156-60-5	
1,2-Dichloropropane	<199 u	g/L	400	199	400		01/03/14 09:5	3 78-87-5	
1,3-Dichloropropane	<185 u	g/L	400	185	400		01/03/14 09:5	3 142-28-9	
2,2-Dichloropropane	<200 u	g/L	400	200	400		01/03/14 09:5	3 594-20-7	
1,1-Dichloropropene	< 203 u	g/Ľ	400	203	400		01/03/14 09:5	3 563-58-6	
cis-1,3-Dichioropropene	<116 u	g/L	400	116	400		01/03/14 09:5	3 10061-01-5	
trans-1,3-Dichloropropene	<121 u	g/L	400	121	400		01/03/14 09:5	3 10061-02-6	
Disopropyl ether	<200 ug	g/L	400	200	400		01/03/14 09:5	3 108-20-3	
Ethylbenzene	2980 ug	g/L	400	200	400		01/03/14 09:5	3 100-41-4	
Hexachloro-1,3-butadiene	<503 ug	g/L	2000	503	400		01/03/14 09:5	3 87-68-3	
Isopropylbenzene (Cumene)	<136 ug	g/L	400	136	400		01/03/14 09:5	3 98-82-8	
o-Isopropyltoluene	<159 ug	1/L	400	159	400		01/03/14 09:5	3 99-87-6	
Methylene Chloride	<143 ug		400	143	400		01/03/14 09:5	3 75-09-2	
Methyl-tert-butyl ether	<197 ug	j /L	400	197	400		01/03/14 09:53	3 1634-04-4	
Naphthalene	<1000 ug		2000	1000	400		01/03/14 09:53	3 91-20-3	
n-Propylbenzene	272J ug	ı/L	400	200	400		01/03/14 09:50	3 103-65 - 1	
Styrene	<140 ug	ı/L	400	140	400		01/03/14 09:50	3 100-42 - 5	
1,1,1,2-Tetrachioroethane	<180 ug	/L	400	180	400		01/03/14 09:53	3 630-20-6	
I,1,2,2-Tetrachloroethane	<154 ug		400	154	400		01/03/14 09:53	3 79-34-5	
Tetrachloroethene	<189 ug	/L	400	189	400		01/03/14 09:53	3 127-18-4	
Toluene	35900 ug	/L	400	175	400		01/03/14 09:53	3 108-88-3	
1,2,3-Trichlorobenzene	<307 ug	/L	2000	307	400		01/03/14 09:53	87-61-6	
1,2,4-Trichlorobenzene	<1000 ug	/L	2000	1000	400		01/03/14 09:53	3 120-82-1	
I,1,1-Trichloroethane	<177 ug	/L	400	177	400		01/03/14 09:53	71-55-6	
,1,2-Trichloroethane	<156 ug	/L	400	156	400		01/03/14 09:53	79-00-5	
richloroethene	<146 ug	/L	400	146	400		01/03/14 09:53	79-01-6	
richlorofluoromethane	<191 ug	/L	400	191	400		01/03/14 09:53	75-69-4	
,2,3-Trichioropropane	<187 ug	/L	400	187	400		01/03/14 09:53	96-18-4	
,2,4-Trimethylbenzene	2370 ug		400	200	400		01/03/14 09:53	95-63-6	
,3,5-Trimethylbenzene	563 ug	rL	400	200	400		01/03/14 09:53	108-67-8	
inyl chloride	<74.0 ug/		400	74.0	400		01/03/14 09:53		
ı&p-Xylene	11000 ug/	'L	800	327	400		01/03/14 09:53	179601-23-1	
-Xylene	4600 ug/		400	200	400		01/03/14 09:53		
urrogates	3-		-						
-Bromofluorobenzene (S)	95 %		43-137		400		01/03/14 09:53	460-00-4	
lbromofluoromethane (S)	106 %		70-130		400		01/03/14 09:53	1868-53-7	
oluene-d8 (S)	98 %		55-137		400		01/03/14 09:53	2037-26-5	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: SUMP	Lab ID: 40	090618006 Collecte	Collected: 12/27/13 16:05			Received: 12/31/13 10:45 Matrix: Water			
Parameters	Results	Units LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
8260 MSV	Analytical Me	ethod: EPA 8260							
Benzene	<0.50 ug/L	1.0	0.50	1		01/03/14 12:10	71-43-2		
Bromobenzene	<0.48 ug/L	1,0	0.48	1		01/03/14 12:10	108-86-1		
Bromochloromethane	<0.49 ug/L	1,0	0.49	1		01/03/14 12:10	74-97-5		
Bromodichloromethane	<0.45 ug/L	1,0	0.45	1		01/03/14 12:10	75-27-4		
Bromoform	<0.33 ug/L	1.0	0.33	1		01/03/14 12:10	75-25-2		
Bromomethane	<0.43 ug/L	5.0	0.43	1		01/03/14 12:10	74-83-9		
n-Butylbenzene	<0.40 ug/L	1.0	0.40	1		01/03/14 12:10	104-51-8		
sec-Butylbenzene	<0.60 ug/L	5.0	0.60	1		01/03/14 12:10	135-98-8		
ert-Butylbenzene	<0.42 ug/L	1.0	0.42	1		01/03/14 12:10	98-06-6		
Carbon tetrachloride	<0.37 ug/L	1.0	0.37	1		01/03/14 12:10	56-23-5		
Chlorobenzene	<0.36 ug/L	1.0	0.36	1		01/03/14 12:10	108-90-7		
Chloroethane	<0.44 ug/L	1.0	0.44	1		01/03/14 12:10	75-00-3		
Chloroform	<0.69 ug/L	5.0	0.69	1		01/03/14 12:10	67-66-3		
Chloromethane	<0.39 ug/L	1.0	0.39	1		01/03/14 12:10	74-87-3		
2-Chlorotoluene	<0,48 ug/L	1.0	0.48	1		01/03/14 12:10	95-49-8		
l-Chlorotoluene	<0.48 ug/L	1.0	0.48	1		01/03/14 12:10			
,2-Dibromo-3-chloropropane	<1.5 ug/L	5.0	1.5	1		01/03/14 12:10	96-12-8		
Dibromochloromethane	<1.9 ug/L	5.0	1.9	1		01/03/14 12:10			
,2-Dibromoethane (EDB)	<0,38 ug/L	1.0	0.38	1		01/03/14 12:10			
Dibromomethane	<0.48 ug/L	1.0	0.48	1		01/03/14 12:10			
.2-Dichlorobenzene	<0.44 ug/L	1.0	0.44	1		01/03/14 12:10			
,3-Dichlorobenzene	<0.45 ug/L	1.0	0.45	1		01/03/14 12:10			
,4-Dichlorobenzene	<0.43 ug/L	1,0	0.43	1		01/03/14 12:10			
ichlorodifluoromethane	<0.40 ug/L	1.0	0.40	1		01/03/14 12:10			
,1-Dichloroethane	<0.28 ug/L	1.0	0.28	1		01/03/14 12:10			
,2-Dichloroethane	<0.48 ug/L	1.0	0.48	1		01/03/14 12:10			
1-Dichloroethene	<0.43 ug/L	1.0	0.43	1		01/03/14 12:10			
s-1,2-Dichloroethene	<0.42 ug/L	1.0	0.42	1		01/03/14 12:10			
ans-1,2-Dichloroethene	<0.37 ug/L	1.0	0.37	1		01/03/14 12:10			
2-Dichloropropane	<0.50 ug/L	1.0	0.50	1		01/03/14 12:10			
3-Dichloropropane	<0.46 ug/L	1.0	0.46	1		01/03/14 12:10			
2-Dichloropropane	<0.50 ug/L	1.0	0.50	1		01/03/14 12:10			
1-Dichloropropene	<0.51 ug/L	1.0	0.51	1		01/03/14 12:10			
s-1,3-Dichloropropene	<0.29 ug/L	1.0	0.29	1		01/03/14 12:10			
ans-1,3-Dichloropropene	<0.30 ug/L	1.0	0.30	1		01/03/14 12:10			
iisopropyl ether	<0.50 ug/L	1.0	0.50	1		01/03/14 12:10			
hylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 12:10			
exachloro-1,3-butadiene	<1.3 ug/L	5.0	1.3	1		01/03/14 12:10			
opropylbenzene (Cumene)	<0.34 ug/L	1.0	0.34	1		01/03/14 12:10			
Isopropyltoluene	<0.40 ug/L	1.0	0.40	1		01/03/14 12:10			
ethylene Chloride	<0.36 ug/L	1.0	0.40	1		01/03/14 12:10			
ethyl-tert-butyl ether	<0.49 ug/L	1.0	0.49	1		01/03/14 12:10			
•	<0.49 ug/L <2.5 ug/L	5.0		1		01/03/14 12:10			
aphthalene Propylhonzopo	**		2.5						
Propylbenzene	<0.50 ug/L	1.0	0.50	1		01/03/14 12:10			
yrene	<0.35 ug/L	1.0	0.35	1		01/03/14 12:10	100-42-5		



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: SUMP	Lab ID:	4090618006	Collected	ed: 12/27/13 16:05 Received: 12/31/13 10:45 Ma				Matrix: Water	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Quai	
8260 MSV	Analytical I	Method: EPA 8	260							
1,1,2,2-Tetrachloroethane	<0.38 ug	ı/L	1.0	0.38	1		01/03/14 12:1	0 79-34-5		
Tetrachloroethene	<0.47 ug	į/L	1.0	0.47	1		01/03/14 12:1	0 127-18-4		
Toluene	<0.44 ug	ı/L	1.0	0,44	1		01/03/14 12:1	0 108-88-3		
1,2,3-Trichlorobenzene	<0.77 ug	ı/L	5.0	0.77	1		01/03/14 12:1	0 87-61-6		
1,2,4-Trichlorobenzene	<2.5 ug	/L	5.0	2.5	1		01/03/14 12:1	0 120-82-1		
1,1,1-Trichloroethane	<0.44 ug	/L	1.0	0.44	1		01/03/14 12:1	0 71-55-6		
1,1,2-Trichloroethane	<0.39 ug	/L	1.0	0.39	1		01/03/14 12:1	0 79-00-5		
Trichloroethene	<0.36 ug	/L	1.0	0.36	1		01/03/14 12:1	0 79-01-6		
Trichlorofluoromethane	<0.48 ug		1.0	0.48	1		01/03/14 12:1	0 75-69-4		
1,2,3-Trichloropropane	<0.47 ug		1.0	0.47	1		01/03/14 12:1	0 96-18-4		
1,2,4-Trimethylbenzene	<0.50 ug/		1.0	0.50	1		01/03/14 12:1	0 95-63-6		
1,3,5-Trimethylbenzene	<0.50 ug/		1.0	0.50	1		01/03/14 12:1			
Vinyi chloride	<0.18 ug/		1.0	0.18	1		01/03/14 12:1			
m&p-Xylene	<0.82 ug/	/L	2.0	0.82	1			179601-23-1		
o-Xylene	<0.50 ug/		1.0	0.50	1		01/03/14 12:1			
Surrogates	ū									
4-Bromofluorobenzene (S)	89 %		43-137		1		01/03/14 12:10	460-00-4		
Dibromofluoromethane (S)	11 1 %		70-130		1		01/03/14 12:10	1868-53-7		
Toluene-d8 (S)	98 %		55-137		1		01/03/14 12:10	2037-26-5		
Sample: POTABLE	Lah ID: 4	090618007	Collegatori	12/27/13	16:15	Received: 12	0/31/13 10:45 N	latrix: Water		
			Conected.							
•	EUD ID. T	20073001	Collected.	(2/2/)	10.10	1100011001	20171010.40 10	iadix. Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
·	Results		LOQ	LOD	DF	Prepared			Qual	
Parameters	Results	Units ethod: EPA 82	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
Parameters 270 MSSV PAH by HVI Acenaphthene	Results Analytical M	Units ethod: EPA 82	LOQ 70 by HVI	LOD Preparation	DF n Metho	Prepared od: EPA 3510	Analyzed 01/08/14 10:41	CAS No. 83-32-9	Qual	
Parameters	Results Analytical M	Units ————————————————————————————————————	LOQ 70 by HVI 1 0.050	LOD Preparation 0.0064	DF Metho	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41	CAS No. 83-32-9 208-96-8	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene		Units ————————————————————————————————————	LOQ 70 by HVI 1 0.050 0.050	LOD Preparation 0.0064 0.0053	DF Method	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l	Unitsethod: EPA 82	LOQ 70 by HVI 1 0.050 0.050 0.050	DOD Preparation 0.0064 0.0053 0.0062	DF Method	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l	Unitsethod: EPA 82	LOQ 70 by HVI 1 0.050 0.050 0.050 0.050	DD Preparation 0.0064 0.0053 0.0062 0.0065	DF 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l	Units ethod: EPA 82 	LOQ 70 by HVI 1 0.050 0.050 0.050 0.050 0.050	DOD Preparation 0.0064 0.0053 0.0062 0.0065 0.011	DF 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l	Units ————————————————————————————————————	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050	DD Preparation 0.0064 0.0053 0.0062 0.0065 0.011 0.0083	DF 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l	Units ————————————————————————————————————	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090	DF 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l	Units L L L L L L L L L L L L L L L L L L L	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Bibenz(a,h)anthracene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.012 ug/l	Units = 2	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(b)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a)anthracene Benzo(a)anthracene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0065 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.012 ug/l <0.014 ug/l <0.015 ug/l	Units L L L L L L L L L L L L L L L L L L L	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080 0.0074	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3 206-44-0	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.012 ug/l <0.014 ug/l <0.0080 ug/l <0.0074 ug/l 0.0068J ug/l	Units ethod: EPA 82	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080 0.0074 0.0058	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3 206-44-0 86-73-7	Qual	
Parameters 2270 MSSV PAH by HVi Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Bluoranthene Bluoranthene Bluoranthene Bluoranthene Bluoranthene Bluoranthene Bluorene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0062 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.014 ug/l <0.0080 ug/l <0.0074 ug/l <0.0068J ug/l <0.0072 ug/l	Units ethod: EPA 82	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080 0.0074 0.0058 0.0072	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3 206-44-0 86-73-7 193-39-5	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Acenaphthylene Acenaphthylene Acenaphthylene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(k)fluoranthene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene Benzo(a,h)anthracene	Results Analytical M <0.0064 ug/l <0.0053 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.0080 ug/l <0.0074 ug/l <0.0063 ug/l <0.0072 ug/l <0.0075 ug/l <0.0075 ug/l	Units ethod: EPA 82	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080 0.0074 0.0058 0.0072 0.0095 0.0070	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3 206-44-0 86-73-7 193-39-5 90-12-0	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Iluoranthene Iluorene Ideno(1,2,3-cd)pyrene -Methylnaphthalene -Methylnaphthalene	Analytical M <0.0064 ug/l <0.0053 ug/l <0.0065 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.0080 ug/l <0.0074 ug/l <0.0072 ug/l <0.0072 ug/l <0.0073 ug/l <0.0073 ug/l <0.0073 ug/l <0.0073 ug/l	Units ethod: EPA 82	0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080 0.0074 0.0058 0.0072 0.0095	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3 206-44-0 86-73-7 193-39-5 90-12-0 91-57-6	Qual	
Parameters 2270 MSSV PAH by HVI Acenaphthene Acenaphthylene Anthracene Benzo(a)anthracene Benzo(b)fluoranthene Benzo(g,h,i)perylene Benzo(k)fluoranthene Chrysene Dibenz(a,h)anthracene Iluoranthene Iluorene Ideno(1,2,3-cd)pyrene -Methylnaphthalene	Results Analytical M <0.0064 ug/l <0.0053 ug/l <0.0065 ug/l <0.011 ug/l <0.0083 ug/l <0.0090 ug/l <0.012 ug/l <0.0080 ug/l <0.0074 ug/l <0.0072 ug/l <0.0072 ug/l <0.0095 ug/l <0.0079 ug/l	Units ethod: EPA 82	LOQ 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	0.0064 0.0053 0.0062 0.0065 0.011 0.0083 0.0090 0.012 0.0080 0.0074 0.0058 0.0072 0.0095 0.0070 0.0068	DF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Prepared od: EPA 3510 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17 01/02/14 08:17	Analyzed 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41 01/08/14 10:41	CAS No. 83-32-9 208-96-8 120-12-7 56-55-3 50-32-8 205-99-2 191-24-2 207-08-9 218-01-9 53-70-3 206-44-0 86-73-7 193-39-5 90-12-0 91-57-6 91-20-3	Qual	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: POTABLE	Lab ID:	4090618007	Collecte	d: 12/27/1	3 16:15	Received: 12	/31/13 10:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical	Method: EPA	8270 by HVI	Preparation	on Meth	od: EPA 3510			
Surrogates	00.00					04/00/44 00 47	04/00/44 40 44		
2-Fluorobiphenyi (S)	68 %		39-130		1		01/08/14 10:41		
Terphenyi-d14 (S)	116 %	•	73-155		1	01/02/14 08:17	01/08/14 10:41	1/18-51-0	
524.2 MSV	Analytical I	Method: EPA	524.2						
Acetone	<10.0 ug	j/L	20.0	10.0	1		01/08/14 20:32	67-64-1	
Acrylonitrile	<5.0 ug	ı/L	10.0	5.0	1		01/08/14 20:32	107-13-1	
Benzene	<0.24 ug	ı/L	0.50	0.24	1		01/08/14 20:32	71-43-2	
Bromobenzene	<0.13 ug	ı/L	0.50	0.13	1		01/08/14 20:32	108-86-1	
Bromochloromethane	<0,50 ug	r/L	1.0	0.50	1		01/08/14 20:32	74-97-5	
Bromodichloromethane	<0.18 ug		1.0	0.18	1		01/08/14 20:32	75-27-4	
Bromoform	<2.0 ug		4.0	2.0	1		01/08/14 20:32	75-25-2	
Bromomethane	<2.0 ug	/L	4.0	2.0	1		01/08/14 20:32	74-83-9	
2-Butanone (MEK)	<2.5 ug		5.0	2.5	1		01/08/14 20:32	78-93-3	
n-Butylbenzene	<0.24 ug		0.50	0.24	1		01/08/14 20:32	104-51 - 8	
sec-Butylbenzene	<0.25 ug	/L	0.50	0.25	1		01/08/14 20:32	135-98-8	
ert-Butylbenzene	<0.25 ug	/L	0.50	0.25	1		01/08/14 20:32	98-06-6	
Carbon disulfide	<0.22 ug		1.0	0.22	1		01/08/14 20:32	75-15-0	
Carbon tetrachloride	<0.31 ug	/L	1.0	0.31	1		01/08/14 20:32	56-23-5	
Chlorobenzene	<0.24 ug		0,50	0.24	1		01/08/14 20:32	108-90-7	
Chloroethane	<0.50 ug/		1.0	0.50	1		01/08/14 20:32	75-00-3	
Chloroform	<0.50 ug/		0.50	0.50	1		01/08/14 20:32	67-66-3	
Chloromethane	<0.50 ug/		4.0	0.50	1		01/08/14 20:32	74-87-3	
-Chlorotoluene	<0.23 ug/		0.50	0.23	1		01/08/14 20:32	95-49-8	
-Chlorotoluene	<0.083 ug/		0.50	0.083	1		01/08/14 20:32	106-43-4	
,2-Dibromo-3-chioropropane	<2.0 ug/		4.0	2.0	1		01/08/14 20:32	96-12-8	
Dibromochioromethane	<0.25 ug/		1.0	0.25	1		01/08/14 20:32		
,2-Dibromoethane (EDB)	<0.13 ug/		0.50	0.13	1		01/08/14 20:32		
ibromomethane	<0.25 ug/		0.50	0.25	1		01/08/14 20:32		
,2-Dichlorobenzene	<0.092 ug/		0.50	0.092	1		01/08/14 20:32		
3-Dichlorobenzene	<0.25 ug/		0.50	0.25	1		01/08/14 20:32		
4-Dichlorobenzene	<0.25 ug/		0.50	0,25	1		01/08/14 20:32		
ans-1,4-Dichloro-2-butene	<5.0 ug/		10.0	5.0	1		01/08/14 20:32		
ichlorodifluoromethane	<0.40 ug/		1.0	0.40	1		01/08/14 20:32		
1-Dichloroethane	<0.25 ug/		0.50	0.25	1		01/08/14 20:32		
2-Dichloroethane	<0.21 ug/l		0,50	0.21	1		01/08/14 20:32		
1-Dichloroethene	<0.24 ug/l		0.50	0.24	1		01/08/14 20:32		
s-1,2-Dichloroethene	<0.23 ug/l		0.50	0.23	1		01/08/14 20:32		
ans-1,2-Dichloroethene	<0.21 ug/l		0.50	0.21	i		01/08/14 20:32		
2-Dichloropropane	<0.20 ug/l		4.0	0.20	1		01/08/14 20:32		
3-Dichloropropane	<0.25 ug/l		0.50	0.25	1		01/08/14 20:32		
3-Dichloropropane 2-Dichloropropane	<0.50 ug/l		1.0	0.50	1		01/08/14 20:32		
2-Dichloropropene	<0.25 ug/L		0.50	0.35	1		01/08/14 20:32		
s-1,3-Dichloropropene	<0.42 ug/L		1.0	0.42	1		01/08/14 20:32		
ans-1,3-Dichloropropene	<0.42 ug/L		1.0	0.42	1		01/08/14 20:32		
ana- i,o-Dicinolopi opene	~v.∠u ug/t	-	1.0	0.20			0 1100/14 20.32	10001-02-0	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Date: 01/09/2014 04:39 PM

1,1,2,2-Tetrachloroethane	Sample: POTABLE	Lab ID:	4090618007	Collect	ed: 12/27/	13 16:15	5 Received:	Received: 12/31/13 10:45 Matrix: Water				
Ethyl methacrylate	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qu		
Hexachtono-1,3-butadiene	524.2 MSV	Analytical	I Method: EPA	524.2								
2-Hexanone	Ethyl methacrylate	<2.5 t	ıg/L	4.0	2.5	1		01/08/14 20:3	2 97-63-2			
Isapropylbenzene (Cumene)	Hexachloro-1,3-butadiene	<0.50 เ	ıg/L	1.0	0.50	1		01/08/14 20:3:	2 87-68-3			
p-isopropylotucne	2-Hexanone	<2.5 t	ıg/L	5.0	2.5	1		01/08/14 20:3	2 591-78-6			
Methylene Chloride	Isopropylbenzene (Cumene)	<0.12 U	ıg/L	0.50	0.12	1		01/08/14 20:3	2 98-82-8			
Methyl methacrylate	p-Isopropyltoluene	<0.25 u	ıg/L	0.50	0.25	1		01/08/14 20:3	2 99-87-6			
4-Methyl-2-pentanone (MIBK) 4-2.5 ug/L 5.0 5.0 5.0 5.0 6.5 1 01/08/14 20:32 108-10-1 Methyl-tert-butyl ether 40.25 ug/L 1.0 5.0 0.25 1 01/08/14 20:32 1634-04-4 Methyl-tert-butyl ether 40.50 ug/L 1.0 5.0 0.25 1 01/08/14 20:32 1634-04-4 Methyl-tert-butyl ether 40.50 ug/L 1.0 0.50 1 0.76 1 01/08/14 20:32 1634-04-4 01/08/14 20:32 1634-04-4 01/08/14 20:32 1634-04-4 01/08/14 20:32 1634-04-4 01/08/14 20:32 1634-04-4 01/08/14 20:32 179-46-9 170-170-170-170-170-170-170-170-170-170-	Methylene Chloride	<2.0 u	ig/L	4.0	2.0	1		01/08/14 20:3:	2 75-09-2			
4-Methyl-2-pentanone (MIBK) 4-Methyl-2-pentanone (MIBK) 4-Methyl-2-pentanone (MIBK) 4-Methyl-4-pt-butyl ether 4-0.50 ug/L 1.0 0.50 1.01/08/14 20:32 1834-04-4 Naphthalene 40.50 ug/L 1.0 0.50 1.01/08/14 20:32 198-10-3 2-Nitropropane 4.5.6 ug/L 1.0 0.50 1.01/08/14 20:32 79-46-9 1-Propylbenzene 40.25 ug/L 1.0 0.50 0.25 1 01/08/14 20:32 79-46-9 1-1,1,2-Tetrachloroethane 40.25 ug/L 0.50 0.25 1 01/08/14 20:32 100-42-5 11,1,12-Tetrachloroethane 40.13 ug/L 0.50 0.25 1 01/08/14 20:32 100-42-5 11,1,12-Tetrachloroethane 40.13 ug/L 0.50 0.25 1 01/08/14 20:32 100-42-5 11,1,12-Tetrachloroethane 40.25 ug/L 0.50 0.25 1 01/08/14 20:32 100-42-5 11,112-Tetrachloroethane 40.25 ug/L 0.50 0.25 1 01/08/14 20:32 127-18-4 101/08/14 20:32	Methyl methacrylate	<2.3 u	ıa/L	5.0	2.3	1		01/08/14 20:32	2 80-62-6			
Methyl-tert-butyl ether	•	<2.5 u	ıa/L					01/08/14 20:32	2 108-10-1			
Naphthalene			-									
2-Alliropropane	-		-									
n-Propylbenzene			-									
Styrene	• •		_									
1,1,1,2-Tetrachloroethane			-									
1,1,2,2-Tetrachloroethane	•		-									
Tetrachloroethene			~									
Toluene			-									
Total Trihalomethanes (Calc.) <2.0 \(\text{ug/L} \) 4.0 \(\text{ 2.0 } \) 1 \		,	_									
1,2,3-Trichlorobenzene			-									
1,2,4-Trichlorobenzene			_									
1,1,1-Trichloroethane			_									
1,1,2-Trichloroethane												
Trichloroethene		,	•									
Trichlorofluoromethane												
2,3-Trichloropropane		•	•									
1,2,4-Trimethylbenzene <0.25 ug/L			-									
3,5-Trimethylbenzene												
Vinyl chloride <0.20 ug/L 0.40 0.20 1 01/08/14 20:32 75-01-4 Kylene (Total) <0.75 ug/L 1.5 0.75 1 01/08/14 20:32 1330-20-7 n&p-Xylene <0.18 ug/L 1.0 0.18 1 01/08/14 20:32 179601-23-1 D-Xylene <0.21 ug/L 0.50 0.21 1 01/08/14 20:32 95-47-6 Surrogates -Bromofluorobenzene (S) 99 %. 75-125 1 01/08/14 20:32 460-00-4 Foluene-d8 (S) 98 %. 75-125 1 01/08/14 20:32 2037-26-5 Q-Dichloroethane-d4 (S) 97 %. 75-125 1 01/08/14 20:32 17060-07-0 Sample: TRIP BLANK Lab ID: 4090618008 Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. 260 MSV Analytical Method: EPA 8260 enzene <0.50 ug/L 1.0 0.50 ug/L 1 01/03/14 12:33 71-43-2	• •	_	•									
Columb C	· ·	-										
Columbda Columbda	=	-	•									
Surrogates Sur		_										
Surrogates I-Bromofluorobenzene (S) 99 %. 75-125 1 01/08/14 20:32 460-00-4 Toluene-d8 (S) 98 %. 75-125 1 01/08/14 20:32 2037-26-5 ,2-Dichloroethane-d4 (S) 97 %. 75-125 1 01/08/14 20:32 17060-07-0 Sample: TRIP BLANK Lab ID: 4090618008 Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. 260 MSV Analytical Method: EPA 8260 enzene <0.50 ug/L 1.0 0.50 1 01/03/14 12:33 71-43-2		***	•									
H-Bromofluorobenzene (S) 99 %. 75-125 1 01/08/14 20:32 460-00-4 Toluene-d8 (S) 98 %. 75-125 1 01/08/14 20:32 2037-26-5 1 01/08/14 20:32 2037-26-5 1 01/08/14 20:32 17060-07-0 1/08/14 20:32 17060-07	•	<0.21 ug	//L	0.50	0.21	1		01/08/14 20:32	95-47-6			
Toluene-d8 (S) 98 %. 75-125 1 01/08/14 20:32 2037-26-5 ,2-Dichloroethane-d4 (S) 97 %. 75-125 1 01/08/14 20:32 17060-07-0 Sample: TRIP BLANK Lab ID: 4090618008 Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. 260 MSV Analytical Method: EPA 8260 Fenzene < 0.50 ug/L 1.0 0.50 1 01/03/14 12:33 71-43-2	<u> </u>	00.9/		75 405		,		04100144 20-22	460.00.4			
2-Dichloroethane-d4 (S) 97 %. 75-125 1 01/08/14 20:32 17060-07-0 Complete Trip Blank												
Fample: TRIP BLANK Lab ID: 4090618008 Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Matrix: Water Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. 260 MSV Analytical Method: EPA 8260 enzene <0.50 ug/L	• •											
Parameters Results Units LOQ LOD DF Prepared Analyzed CAS No. 260 MSV Analytical Method: EPA 8260 enzene <0.50 ug/L	,2-Dichloroetnane-d4 (5)	97 %.	•	75-125		1		01/08/14 20:32	17060-07-0			
Analytical Method: EPA 8260 enzene <0.50 ug/L 1.0 0.50 1 01/03/14 12:33 71-43-2	ample: TRIP BLANK	Lab ID;	4090618008	Collected	l: 12/27/13	3 00:00	Received: 12	2/31/13 10:45 Mi	atrix: Water			
enzene <0.50 µg/L 1.0 0.50 1 01/03/14 12:33 71-43-2	Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual		
<u>u</u>	260 MSV	Analytical N	/lethod: EPA 82	260								
<u>u</u>	enzene	<0.50 Haz	/L.	1.0	0.50	1		01/03/14 12:33	71-43-2			
	romobenzene	-		1.0	0.48	1						
romochloromethane <0.49 ug/L 1.0 0.49 1 01/03/14 12:33 74-97-5		•										



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Sample: TRIP BLANK	Lab ID:	Lab ID: 4090618008 Collected: 12/27/13 00:00 Received: 12/31/13 10:45 Ma				atrix: Water			
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytica	Method: EPA 8	260						
Bromodichloromethane	<0.45 u	ıg/L	1.0	0.45	1		01/03/14 12:33	75-27-4	
Bromoform	< 0.33 ∟	ıg/L	1.0	0.33	. 1		01/03/14 12:33	75-25-2	
Bromomethane	<0.43 u	g/L	5.0	0.43	1		01/03/14 12:33	74-83-9	
n-Butylbenzene	<0.40 u	g/L	1.0	0.40	1		01/03/14 12:33	104-51-8	
sec-Butylbenzene	<0.60 u	g/L	5.0	0.60	1		01/03/14 12:33	135-98-8	
tert-Butylbenzene	<0.42 u	g/L	1.0	0.42	1		01/03/14 12:33	98-06-6	
Carbon tetrachloride	<0.37 u	g/L	1.0	0.37	1		01/03/14 12:33	56-23-5	
Chlorobenzene	<0.36 u	g/L	1.0	0.36	1		01/03/14 12:33	108-90-7	
Chloroethane	<0.44 u	g/L	1.0	0.44	1		01/03/14 12:33	75-00-3	
Chloroform	<0.69 ti	g/L	5.0	0.69	1		01/03/14 12:33	67-66-3	
Chloromethane	<0.39 u	g/L	1.0	0.39	1		01/03/14 12:33	74-87-3	
2-Chlorotoluene	<0.48 u	•	1.0	0.48	1		01/03/14 12:33	95-49-8	
4-Chlorotoluene	<0.48 u	•	1.0	0.48	1		01/03/14 12:33	106-43-4	
1,2-Dibromo-3-chloropropane	<1.5 u	•	5.0	1.5	1		01/03/14 12:33		
Dibromochloromethane	<1.9 u	-	5.0	1.9	1		01/03/14 12:33		
1,2-Dibromoethane (EDB)	<0.38 ug		1.0	0.38	1		01/03/14 12:33		
Dibromomethane	<0.48 us	=	1.0	0.48	1		01/03/14 12:33		
1,2-Dichlorobenzene	<0.44 ug	="	1.0	0.44	1		01/03/14 12:33		
1,3-Dichlorobenzene	<0.45 ug	=	1.0	0.45	1		01/03/14 12:33		
1,4-Dichlorobenzene	<0.43 ug	=	1.0	0.43	1		01/03/14 12:33		
Dichiorodifluoromethane	<0.40 ug	*	1.0	0.40	1		01/03/14 12:33		
1,1-Dichloroethane	<0.28 ug		1.0	0.28	1		01/03/14 12:33		
1,2-Dichloroethane	<0.48 ug	•	1.0	0,48	i		01/03/14 12:33		
1,1-Dichloroethene	<0.43 ug		1.0	0.43	1		01/03/14 12:33		
cis-1,2-Dichloroethene	<0.42 ug		1.0	0.42	1		01/03/14 12:33		
rans-1,2-Dichloroethene	<0.37 ug		1.Q	0.37	1		01/03/14 12:33		
1,2-Dichloropropane	<0.50 ug		1.0	0.50	1		01/03/14 12:33		
1,3-Dichloropropane	<0.46 ug		1.0	0.46	1		01/03/14 12:33		
2,2-Dichloropropane	<0.50 ug		1.0	0.50	1		01/03/14 12:33		
1,1-Dichloropropene	<0.50 ug		1.0	0.51	1		01/03/14 12:33		
sis-1,3-Dichloropropene	<0.29 ug		1.0	0.29	1		01/03/14 12:33		
rans-1,3-Dichloropropene	<0.30 ug		1.0	0.30	1		01/03/14 12:33		
Diisopropyl ether	<0.50 ug		1.0	0.50	1		01/03/14 12:33		
Ethylbenzene	<0.50 ug		1.0	0.50	1		01/03/14 12:33		
lexachloro-1,3-butadiene	<1.3 ug		5.0	1.3	1		01/03/14 12:33		
					1		01/03/14 12:33		
sopropylbenzene (Cumene)	<0.34 ug		1.0	0.34	1				
-Isopropyltoluene	<0.40 ug.		1.0	0.40	1		01/03/14 12:33		
lethylene Chloride	<0.36 ug.		1.0	0.36	1		01/03/14 12:33		
lethyl-tert-butyl ether	<0.49 ug		1.0	0.49	1		01/03/14 12:33		
laphthalene	<2.5 tig/	-	5.0	2.5	1		01/03/14 12:33		
-Propylbenzene	<0.50 ug/		1.0	0.50	1		01/03/14 12:33		
tyrene	<0.35 ug/		1.0	0.35	1		01/03/14 12:33		
,1,1,2-Tetrachloroethane	<0.45 ug/		1.0	0.45	1		01/03/14 12:33		
1,2,2-Tetrachloroethane	<0.38 ug/		1.0	0.38	1		01/03/14 12:33		
etrachloroethene	<0.47 ug/		1.0	0.47	1		01/03/14 12:33		
oluene	<0.44 ug/	L	1.0	0.44	1		01/03/14 12:33	108-88-3	



Project:

P101399,40 DA SWAMP

Pace Project No.: 4090618

Date: 01/09/2014 04:39 PM

Sample: TRIP BLANK	Lab ID	: 4090618008	Collecte	d: 12/27/1	3 00:00	Received: 12	/31/13 10:45 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytica	I Method: EPA 8	3260						
1,2,3-Trichlorobenzene	<0.77	ug/L	5,0	0.77	1		01/03/14 12:33	87-61-6	
1,2,4-Trichlorobenzene	<2.5	ug/L	5.0	2.5	1		01/03/14 12:33	120-82-1	
1,1,1-Trichloroethane	< 0.44	ug/L	1.0	0.44	1		01/03/14 12:33	71-55-6	
1,1,2-Trichloroethane	<0.39	ug/L	1,0	0.39	1		01/03/14 12:33	79-00-5	
Trichloroethene	<0.36		1.0	0.36	1		01/03/14 12:33	79-01-6	
Trichlorofluoromethane	< 0.48 t	ıg/L	1.0	0.48	1		01/03/14 12:33	75-69-4	
1,2,3-Trichloropropane	<0.47	.ig/L	1.0	0.47	1		01/03/14 12:33	96-18-4	
1,2,4-Trimethylbenzene	<0.50 t	-	1.0	0.50	1		01/03/14 12:33	95-63-6	
1,3,5-Trimethylbenzene	<0.50 t	_	1.0	0.50	1		01/03/14 12:33	108-67-8	
Vinyl chloride	<0.18 ∪	ıg/L	1.0	0.18	1		01/03/14 12:33	75-01-4	
m&p-Xylene	<0.82 t		2.0	0.82	1		01/03/14 12:33	179601-23-1	
o-Xylene	<0.50 L	ıg/L	1.0	0,50	1		01/03/14 12:33	95-47-6	
Surrogates		-							
4-Bromofluorobenzene (S)	89 %	6	43-137		1		01/03/14 12:33	460-00-4	
Dibromofluoromethane (S)	111 %	6	70-130		1		01/03/14 12:33	1868-53-7	
Toluene-d8 (S)	99 %	6	55-137		1		01/03/14 12:33	2037-26-5	



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

QC Batch:

MSV/26090

Analysis Method:

EPA 524.2

QC Batch Method: EPA 524.2 Analysis Description:

524.2 MSV

Associated Lab Samples:

4090618007

METHOD BLANK: 1605599

Matrix: Water

Associated Lab Samples: 4090618007

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.25	1.0	01/08/14 17:14	
1,1,1-Trichloroethane	ug/L	<0.25	0.50	01/08/14 17:14	
1,1,2,2-Tetrachloroethane	ug/L	< 0.13	0.50	01/08/14 17:14	
1,1,2-Trichloroethane	ug/L	<0.25	0.50	01/08/14 17:14	
1,1-Dichloroethane	ug/L	<0.25	0.50	01/08/14 17:14	
1,1-Dichloroethene	ug/L	<0.24	0.50	01/08/14 17:14	
1,1-Dichloropropene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2,3-Trichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2,3-Trichloropropane	ug/L	<0.54	4.0	01/08/14 17:14	
1,2,4-Trichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2,4-Trimethylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	4.0	01/08/14 17:14	
1,2-Dibromoethane (EDB)	ug/L	<0.13	0.50	01/08/14 17:14	
1,2-Dichlorobenzene	ug/L	<0.092	0.50	01/08/14 17:14	
1,2-Dichloroethane	ug/L	<0.21	0.50	01/08/14 17:14	
1,2-Dichloropropane	ug/L	<0.20	4.0	01/08/14 17:14	
1,3,5-Trimethylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,3-Dichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
1,3-Dichloropropane	ug/L	<0.25	0.50	01/08/14 17:14	
1,4-Dichlorobenzene	ug/L	<0.25	0.50	01/08/14 17:14	
2,2-Dichloropropane	ug/L	<0.50	1.0	01/08/14 17:14	
2-Butanone (MEK)	ug/L	<2.5	5.0	01/08/14 17:14	
2-Chlorotoluene	ug/L	<0.23	0.50	01/08/14 17:14	
2-Hexanone	ug/L	<2.5	5.0	01/08/14 17:14	
2-Nitropropane	ug/L	<3.5	10.0	01/08/14 17:14	
4-Chiorotoluene	ug/L	<0.083	0,50	01/08/14 17:14	
4-Methyl-2-pentanone (MIBK)	ug/L	<2.5	5.0	01/08/14 17:14	
Acetone	ug/L	<10.0	20.0	01/08/14 17:14	
Acrylonitrile	ug/L	<5.0	10,0	01/08/14 17:14	
Benzene	ug/L	<0.24	0.50	01/08/14 17:14	
Bromobenzene	ug/L	<0.13	0.50	01/08/14 17:14	
Bromochloromethane	ug/L	<0.50	1.0	01/08/14 17:14	
Bromodichloromethane	ug/L	<0.18	1.0	01/08/14 17:14	
Bromoform	ug/L	<2.0	4.0	01/08/14 17:14	
3romomethane	ug/L	<2.0	4.0	01/08/14 17:14	
Carbon disulfide	ug/L	<0.22	1.0	01/08/14 17:14	
Carbon tetrachloride	ug/L	<0.31	1.0	01/08/14 17:14	
Chlorobenzene	ug/L	<0.24	0.50	01/08/14 17:14	
Chloroethane	ug/L	<0.50	1.0	01/08/14 17:14	
Chloroform	ug/L	<0.50	0.50	01/08/14 17:14	
Chloromethane	ug/L	<0.50	4.0	01/08/14 17:14	
is-1,2-Dichloroethene	ug/L	<0.23	0.50	01/08/14 17:14	
is-1,3-Dichloropropene	ug/L	< 0.42	1.0	01/08/14 17:14	

REPORT OF LABORATORY ANALYSIS

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Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

METHOD BLANK: 1605599

Matrix: Water

Associated Lab Samples: 4090618007

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Dibromochloromethane	ug/L	<0.25	1.0	01/08/14 17:14	,
Dibromomethane	ug/L	<0.25	0.50	01/08/14 17:14	
Dichlorodifluoromethane	ug/L	< 0.40	1.0	01/08/14 17:14	
Ethyl methacrylate	ug/L	<2.5	4.0	01/08/14 17:14	
Ethylbenzene	ug/L	<0.21	0.50	01/08/14 17:14	
Hexachloro-1,3-butadiene	ug/L	< 0.50	1.0	01/08/14 17:14	
isopropylbenzene (Cumene)	ug/L	<0.12	0,50	01/08/14 17:14	
m&p-Xylene	ug/L	<0.18	1.0	01/08/14 17:14	
Methyl methacrylate	ug/L	<2.3	5.0	01/08/14 17:14	
Methyl-tert-butyl ether	ug/L	<0.25	0.50	01/08/14 17:14	
Methylene Chloride	ug/L	<2.0	4.0	01/08/14 17:14	
n-Butylbenzene	ug/L	< 0.24	0.50	01/08/14 17:14	
n-Propylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
Naphthalene	ug/L	<0.50	1,0	01/08/14 17:14	
o-Xylene	ug/L	<0.21	0.50	01/08/14 17:14	
p-Isopropyltoluene	ug/L	<0.25	0.50	01/08/14 17:14	
sec-Butylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
Styrene	ug/L	<0.24	0.50	01/08/14 17:14	
tert-Butylbenzene	ug/L	<0.25	0.50	01/08/14 17:14	
Tetrachloroethene	ug/L	<0.25	0,50	01/08/14 17:14	
Toluene	ug/L	<0.22	0.50	01/08/14 17:14	
Total Trihalomethanes (Calc.)	ug/L	<2.0	4.0	01/08/14 17:14	
trans-1,2-Dichloroethene	ug/L	<0.21	0.50	01/08/14 17:14	
trans-1,3-Dichloropropene	ug/L	<0.25	1.0	01/08/14 17:14	
trans-1,4-Dichloro-2-butene	ug/L	<5.0	10.0	01/08/14 17:14	
Trichloroethene	ug/L	<0.13	0.50	01/08/14 17:14	
Trichlorofluoromethane	ug/L	<0.12	0.50	01/08/14 17:14	
Vinyl chloride	ug/L	<0.20	0.40	01/08/14 17:14	
Xylene (Total)	ug/L	<0.75	1.5	01/08/14 17:14	
1,2-Dichloroethane-d4 (S)	%.	96	75-125	01/08/14 17:14	
4-Bromofluorobenzene (S)	%.	100	75-125	01/08/14 17:14	
Toluene-d8 (S)	%.	98	75-125	01/08/14 17:14	

LABORATORY CONTROL SAMI	PLE & LCSD: 160560	00	16	305601		-				
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	22.3	19.5	111	97	70-130	13	20	
1,1,1-Trichloroethane	ug/L	20	21.3	18.9	107	95	70-130	12	20	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	18.4	104	92	70-130	12	20	
1,1,2-Trichloroethane	ug/L	20	21.3	18.9	107	95	70-130	12	20	
1,1-Dichloroethane	ug/L	20	19.4	16.8	97	84	70-130	14	20	
1,1-Dichloroethene	ug/L	20	19.8	16.9	99	84	70-130	16	20	
1,1-Dichloropropene	ug/L	20	20.9	18.2	105	91	70-130	14	20	
1,2,3-Trichlorobenzene	ug/L	20	21.7	19.7	109	98	70-130	10	20	
1,2,3-Trichloropropane	ug/L	20	22.9	19.6	114	98	70-130	15	20	



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

LABORATORY CONTROL SAME	PLE & LCSD: 1605600			05601						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifier
1,2,4-Trichlorobenzene	ug/L	20	22.6	19.2	113	96	70-130		20	
1,2,4-Trimethylbenzene	ug/L	20	20.6	18.8	103	94	70-130	9	20	
1,2-Dibromo-3-chloropropane	ug/L	50	63.7	56.2	127	112	70-130	13	20	
1,2-Dibromoethane (EDB)	ug/L	20	21.0	18.6	105	93	70-130	12	20	
1,2-Dichlorobenzene	ug/L	20	19.7	18.1	99	90	70-130	9	20	
1,2-Dichloroethane	ug/L	20	19.4	17,6	97	88	70-130	9	20	
1,2-Dichloropropane	ug/L	20	20.9	18.5	104	92	70-130	12	20	
1,3,5-Trimethylbenzene	ug/L	20	20.2	18,3	101	91	70-130	10	20	
1,3-Dichlorobenzene	ug/L	20	20.3	18.6	102	93	70-130	9	20	
1,3-Dichloropropane	ug/L	20	20.5	18.0	102	90	70-130	13	20	
1,4-Dichlorobenzene	ug/L	20	20.3	18.7	101	93	70-130	8	20	
2,2-Dichloropropane	ug/L	20	22.2	18.6	111	93	70-130	17	20	
2-Butanone (MEK)	ug/L	100	104	90.8	104	91	70-130	13	20	
2-Chlorotoluene	ug/L	20	19.6	17.6	98	88	70-130	11	20	
2-Hexanone	ug/L	100	112	96.2	112	96	70-130	15	20	
2-Nitropropane	ug/L	100	116	99.0	116	99	70-130	16	20	
- Chlorotoluene	ug/L	20	19.6	17.9	98	89	70-130	10	20	
l-Methyl-2-pentanone (MIBK)	ug/L	100	108	91.9	108	92	70-130	16	20	
Acetone	ug/L	100	117	101	117	101	70-130	15	20	
Acrylonitrile	ug/L	200	207	181	103	91	70-130	13	20	
Benzene	ug/L	200	19.9	17.5	99	-88	70-130	13	20	
Bromobenzene	ug/L	20	20.8	18.3	104	92	70-130	12	20	
Bromochloromethane	ug/L	20	21.1	19.4	104	97	70-130	9	20	
romodichloromethane	ug/L	20	21.1	19.4	108	97 95	70-130	13	20	
Promoform		20	20.7	18.5	103	92	70-130	11	20	
romonom romomethane	ug/L	20	20.7	18.8			70-130	9	20	
	ug/L				103	94				
Carbon disulfide	ug/L	20	20.8	17.7	104	88	70-130	16 15	20	
arbon tetrachloride	ug/L	20	21.1 20.2	18.2	105	91	70-130		20	
hlorobenzene	ug/L	20		17.9	101	89	70-130	12	20	
hloroethane	ug/L	20	20.4	18.5	102	93	70-130	9	20	
hloroform	ug/L	20	20.2	17.2	101	86	70-130	16	20	
hloromethane	ug/L	20	20.6	19.0	103	95	70-130	8	20	
s-1,2-Dichloroethene	ug/L	20	19.4	16.7	97	84	70-130	15	20	
s-1,3-Dichloropropene	ug/L	20	21.2	19.3	106	97	70-130	9	20	
ibromochloromethane	ug/L	20	22.4	19.6	112	98	70-130	13	20	
ibromomethane	ug/L	20	21.5	19.0	108	95	70-130	12	20	
ichlorodifluoromethane	ug/L	20	16.6	14.6	83	73	70-130	13	20	
thyl methacrylate	ug/L	20	21.9	18.7	109	93	70-130	16	20	
hylbenzene	ug/L	20	19.9	17.4	100	87	70-130	14	20	
exachloro-1,3-butadiene	ug/L	20	22,6	19.1	113	95	70-130	17	20	
opropylbenzene (Cumene)	ug/L	20	20.7	18.2	103	91	70-130	13	20	
&p-Xylene	ug/L	40	41.0	36.0	102	90	70-130	13	20	
ethyl methacrylate	ug/L	100	112	102	112	102	70-130	9	20	
ethyl-tert-butyl ether	ug/L	20	19.8	18.2	99	91	70-130	9	20	
ethylene Chloride	ug/L	20	20.2	18.3	101	91	70-130	10	20	
Butylbenzene	ug/L	20	21.4	18.9	107	95	70-130	12	20	
Propylbenzene	ug/L	20	19.7	17.7	99	89	70-130	11	20	
phthalene	ug/L	20	22.0	19.8	110	99	70-130	11	20	



Project:

P101399.40 DA SWAMP

Pace Project No.:

Date: 01/09/2014 04:39 PM

4090618

LABORATORY CONTROL SAMP	LE & LCSD: 16056	00	16	805601						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter Parame	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
o-Xylene	ug/L	20	20.6	18.3	103	92	70-130	11	20	
p-Isopropyltoluene	ug/L	20	20.3	18.4	102	92	70-130	10	20	
sec-Butylbenzene	ug/L	20	21.0	18.7	105	93	70-130	12	20	
Styrene	ug/L	20	20.9	18.7	104	94	70-130	11	20	
tert-Butylbenzene	ug/L	20	21.0	18.6	105	93	70-130	12	20	
Tetrachloroethene	ug/L	20	21.0	17.7	105	89	70-130	17	20	
Toluene	ug/L	20	20.0	17.2	100	86	70-130	15	20	
Total Trihalomethanes (Calc.)	ug/L	80	84.8	74.3	106	93	70-130	13	20	
rans-1,2-Dichloroethene	ug/L	20	20.2	17.4	101	87	70-130	15	20	
rans-1,3-Dichloropropene	ug/L	20	22.4	20.2	112	101	70-130	11	20	
rans-1,4-Dichloro-2-butene	ug/L	50	56.4	50.1	113	100	70-130	12	20	
Frichloroethene	ug/L	20	21.3	18.3	107	91	70-130	15	20	
Frichlorofluoromethane	ug/L	20	19.6	17.4	98	87	70-130	12	20	
/inyl chloride	ug/L	20	20,8	18.7	104	93	70-130	11	20	
(ylene (Total)	ug/L	60	61.5	54.3	103	91	70-130	12	20	
,2-Dichloroethane-d4 (S)	%.				97	98	75-125			
-Bromofluorobenzene (S)	%.				100	100	75-125			
oluene-d8 (S)	%.				101	99	75-125			



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

QC Batch:

MSV/22929

Analysis Method:

EPA 8260

QC Batch Method: E

EPA 8260

Analysis Description:

8260 MSV

Associated Lab Samples:

4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618006, 4090618008

METHOD BLANK: 918376

76 Matrix: Water

Associated Lab Samples:

4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618006, 4090618008

		Bíank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachioroethane	ug/L	<0.45	1.0	01/03/14 06:50	
1,1,1-Trichloroethane	ug/L	<0.44	1.0	01/03/14 06:50	
1,1,2,2-Tetrachloroethane	цg/L	<0.38	1.0	01/03/14 06:50	
1,1,2-Trichloroethane	ug/L	< 0.39	1.0	01/03/14 06:50	
1,1-Dichioroethane	ug/L	<0.28	1.0	01/03/14 06:50	
1,1-Dichloroethene	ug/L	<0.43	1.0	01/03/14 06:50	
1,1-Dichloropropene	ug/L	<0.51	1.0	01/03/14 06:50	
1,2,3-Trichlorobenzene	ug/L	< 0.77	5,0	01/03/14 06:50	
1,2,3-Trichloropropane	ug/L	< 0.47	1.0	01/03/14 06:50	
1,2,4-Trichlorobenzene	ug/L	<2.5	5.0	01/03/14 06:50	
1,2,4-Trimethylbenzene	ug/L	< 0.50	1.0	01/03/14 06:50	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	5.0	01/03/14 06:50	
1,2-Dibromoethane (EDB)	ug/L	<0.38	1.0	01/03/14 06:50	
1,2-Dichlorobenzene	ug/L	<0.44	1.0	01/03/14 06:50	
1,2-Dichloroethane	ug/L	<0.48	1.0	01/03/14 06:50	
1,2-Dichloropropane	ug/L	<0.50	1.0	01/03/14 06:50	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/03/14 06:50	
1,3-Dichiorobenzene	ug/L	<0.45	1.0	01/03/14 06:50	
1,3-Dichloropropane	ug/L	<0.46	1.0	01/03/14 06:50	
1,4-Dichlorobenzene	ug/L	< 0.43	1.0	01/03/14 06:50	
2,2-Dichloropropane	ug/L	<0.50	. 1.0	01/03/14 06:50	
2-Chlorotoluene	ug/L	<0.48	1.0	01/03/14 06:50	
4-Chlorotoluene	ug/L	< 0.48	1.0	01/03/14 06:50	
Benzene	ug/L	<0.50	1.0	01/03/14 06:50	
Bromobenzene	ug/L	<0,48	1.0	01/03/14 06:50	
Bromochloromethane	ug/L	<0.49	1.0	01/03/14 06:50	
Bromodichioromethane	ug/L	<0.45	1.0	01/03/14 06:50	
Bromoform	ug/L	< 0.33	1.0	01/03/14 06:50	.*
Bromomethane	ug/L	<0.43	5.0	01/03/14 06:50	
Carbon tetrachloride	ug/L	< 0.37	1.0	01/03/14 06:50	
Chlorobenzene	ug/L	<0.36	1.0	01/03/14 06:50	
Chloroethane	ug/L	<0.44	1.0	01/03/14 06:50	
Chloroform	ug/L	< 0.69	5.0	01/03/14 06:50	
Chloromethane	ug/L	< 0.39	1.0	01/03/14 06:50	
cis-1,2-Dichloroethene	ug/L	<0.42	1.0	01/03/14 06:50	
cis-1,3-Dichloropropene	ug/L	< 0.29	1.0	01/03/14 06:50	
Dibromochloromethane	ug/L	<1.9	5,0	01/03/14 06:50	
Dibromomethane	ug/L	<0.48	1.0	01/03/14 06:50	
Dichlorodifluoromethane	ug/L	<0,40	1.0	01/03/14 06:50	
Diisopropyl ether	ug/L	<0.50	1.0	01/03/14 06:50	
Ethylbenzene	ug/L	<0.50		01/03/14 06:50	
Hexachloro-1,3-butadiene	ug/L	<1.3		01/03/14 06:50	
isopropylbenzene (Cumene)	ug/L	<0.34	1.0	01/03/14 06:50	



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

METHOD BLANK: 918376

Matrix: Water

Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618006, 4090618008

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
m&p-Xylene	ug/L	<0.82	2.0	01/03/14 06:50	
Methyl-tert-butyl ether	ug/L	< 0.49	1.0	01/03/14 06:50	
Methylene Chloride	ug/L	<0.36	1.0	01/03/14 06:50	
n-Butyibenzene	ug/L	< 0.40	1.0	01/03/14 06:50	
n-Propylbenzene	ug/L	<0.50	1.0	01/03/14 06:50	
Naphthalene	ug/L	<2.5	5.0	01/03/14 06:50	
o-Xylene	ug/L	< 0.50	1.0	01/03/14 06:50	
p-Isopropyitoluene	ug/L	< 0.40	1.0	01/03/14 06:50	
sec-Butylbenzene	ug/L	<0.60	5.0	01/03/14 06:50	
Styrene	ug/L	< 0.35	1.0	01/03/14 06:50	
tert-Butylbenzene	ug/L	< 0.42	1.0	01/03/14 06:50	
Tetrachloroethene	ug/L	<0.47	1.0	01/03/14 06:50	
Toluene	ug/L	< 0.44	1.0	01/03/14 06:50	
trans-1,2-Dichloroethene	ug/L	<0.37	1.0	01/03/14 06:50	
trans-1,3-Dichloropropene	ug/L	<0.30	1.0	01/03/14 06:50	
Trichloroethene	ug/L	< 0.36	1.0	01/03/14 06:50	
Trichlorofluoromethane	ug/L	<0.48	1.0	01/03/14 06:50	
Vinyl chloride	ug/L	<0.18	1.0	01/03/14 06:50	
4-Bromofluorobenzene (S)	%	90 .	43-137	01/03/14 06:50	
Dibromofluoromethane (S)	%	107	70-130	01/03/14 06:50	
Toluene-d8 (S)	%	98	55-137	01/03/14 06:50	

LABORATORY CONTROL SAMP	LE & LCSD: 918377		91	18378						
<u>.</u> .		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	52.4	105	105	70-136	0	20	
1,1,2,2-Tetrachloroethane	ug/L	50	52.1	51.7	104	103	70-130	1	20	
1,1,2-Trichloroethane	ug/L	50	53.6	51.9	107	104	70-130	3	20	
1,1-Dichloroethane	ug/L	50	52.1	52.1	104	104	70-146	0	20	
1,1-Dichloroethene	ug/L	50	56.5	57.0	113	114	70-130	1	20	
1,2,4-Trichlorobenzene	ug/L	50	51.5	50.0	103	100	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	50	45,5	44.8	91	90	46-150	2	20	
1,2-Dibromoethane (EDB)	ug/L	50	51.9	51.8	104	104	70-130	0	20	
1,2-Dichlorobenzene	ug/L	50	52.3	51.7	105	103	70-130	1	20	
1,2-Dichloroethane	ug/L	50	53.4	53.8	107	108	70-144	1	20	
1,2-Dichloropropane	ug/L	50	56.5	54.6	113	109	70-136	3	20	
1,3-Dichlorobenzene	ug/L	50	50.3	49.6	101	99	70-130	1	20	
1,4-Dichlorobenzene	ug/L	50	50.9	50.4	102	101	70-130	1	20	
Benzene	ug/L	50	51.5	51.6	103	103	70-137	0	20	
Bromodichloromethane	ug/L	50	54.4	54.2	109	108	70-133	0	20	
Bromoform	ug/L	50	51.9	50.4	104	101	59-130	3	20	
Bromomethane	ug/L	50	64.7	64.1	129	128	41-148	1	20	
Carbon tetrachloride	ug/L	50	55.6	56,5	111	113	70-154	2	20	
Chlorobenzene	ug/L.	50	54.2	53.7	108	107	70-130	1	20	
Chloroethane	ug/L	50	59.3	59.4	119	119	70-139	0	20	



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

LABORATORY CONTROL SAME	PLE & LCSD: 918377		91	8378						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Chloroform	ug/L	50	52.5	51.8	105	104	70-130	1	20	
Chloromethane	ug/L	50	55.3	55.9	111	112	45-154	1	20	
cis-1,2-Dichloroethene	ug/L	50	48.1	48.4	96	97	70-130	1	20	
cis-1,3-Dichloropropene	ug/L	50	48.0	47.9	96	96	70-136	0	20	
Dibromochloromethane	ug/L	50	51.8	51.2	104	102	70-130	1	20	
Dichlorodifluoromethane	ug/L	50	57.0	56.6	114	113	20-157	1	20	
Ethylbenzene	ug/L	50	56.8	55.9	114	112	70-130	2	20	
sopropylbenzene (Cumene)	ug/L	50	58.4	58.0	117	116	70-130	1	20	
n&p-Xylene	ug/L	100	116	114	116	114	70-130	1	20	
Methyl-tert-butyl ether	ug/L	50	51.9	52.4	104	105	59-141	1	20	
Methylene Chloride	ug/L	50	55.8	55.5	112	111	70-130	0	20	
o-Xylene	ug/L	50	57.6	56.8	115	114	70-130	1	20	
Styrene	ug/L	50	56.0	55,6	112	1 11	70-130	1	20	
Tetrachloroethene	ug/L	50	54.9	53.4	110	107	70-130	3	20	
Toluene	ug/L	50	54.8	52.7	110	105	70-130	4	20	
rans-1,2-Dichloroethene	ug/L	50	54.0	53.0	108	106	70-130	2	20	
rans-1,3-Dichloropropene	ug/L	50	48.0	48.5	96	97	55-135	1	20	
richloroethene	ug/L	50	54.7	54.1	109	108	70-130	1	20	
richlorofluoromethane	ug/L	50	57.4	• 57.3	115	115	50-150	0	20	
Inyl chloride	ug/L	50	62.2	61.7	124	123	61-143	1	20	
-Bromofluorobenzene (S)	%				102	102	43-137			
Dibromofluoromethane (S)	%				101	102	70-130			
oluene-d8 (S)	%				98	99	55-137			

MATRIX SPIKE & MATRIX SPI	KE DUPLICAT	E: 91848			918488							
	41	090631001	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,1,1-Trichloroethane	ug/L	<0.44	50	50	53.0	54.0	106	108	70-136	2	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.38	50	50	53.4	53.6	107	107	70-130	0	20	
1,1,2-Trichloroethane	ug/L	<0.39	50	50	53.5	51.7	107	103	70-130	4	20	
1,1-Dichloroethane	ug/L	<0.28	50	50	51.9	52.0	104	104	70-146	0	20	
1,1-Dichloroethene	ug/L	< 0.43	50	50	54.5	54.6	109	109	70-130	0	20	
1,2,4-Trichlorobenzene	ug/L	<2.5	50	50	51.9	51.1	104	102	70-130	2	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.5	50	50	49.2	46.7	98	93	46-150	5	20	
1,2-Dibromoethane (EDB)	ug/L	< 0.38	50	50	52.9	52.1	106	104	70-130	2	20	
1,2-Dichlorobenzene	ug/L	< 0.44	50	50	52.4	52.4	105	105	70-130	0	20	
1,2-Dichloroethane	ug/L	< 0.48	50	50	53.3	54.1	107	108	70-146	1	20	
1,2-Dichloropropane	ug/L	<0.50	50	50	56.4	56.4	113	1 13	70-136	0	20	
7,3-Dichlorobenzene	ug/L	<0.45	50	50	50.9	50.6	102	101	70-130	1	20	
l,4-Dichlorobenzene	ug/L	< 0.43	50	50	51.4	51.1	103	102	70-130	1	20	
Benzene	ug/L	< 0.50	50	50	51.3	52.1	103	104	70-137	2	20	
3romodichioromethane	ug/L	<0.45	5 0	50	55,3	54.6	111	109	70-133	1	20	
Bromoform	ug/L	< 0.33	50	50	51,1	48.7	102	97	57-130	5	20	
Bromomethane	ug/L	< 0.43	50	50	67.0	66.7	134	133	41-148	0	20	
Carbon tetrachloride	ug/L	< 0.37	50	50	56.9	56,5	114	113	70-154	1	20	
Chlorobenzene	ug/L	<0.36	50	50	54.9	54.1	110	108	70-130	1	20	



Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

Date: 01/09/2014 04:39 PM

MATRIX SPIKE & MATRIX SP	IKE DUPLICAT	E: 91848	7		918488							
			MS	MSD								
	40	090631001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qua
Chloroethane	ug/L	<0.44	50	50	59.3	60.0	119	120	70-140	1	20	
Chloroform	ug/L	< 0.69	50	50	51.7	52.4	103	105	70-130	1	20	
Chloromethane	ug/L	<0.39	50	50	54.8	54.0	110	108	45-154	2	20	
cis-1,2-Dichloroethene	ug/L	7.5	50	50	56.7	57.4	98	100	70-130	1	20	
cis-1,3-Dichioropropene	ug/L	< 0.29	50	50	50.2	48.0	100	96	70-136	5	20	
Dibromochloromethane	ug/L	<1.9	50	50	51.3	50.2	103	100	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.40	50	50	55.2	55.6	110	111	10-157	1	20	
Ethylbenzene	ug/L	< 0.50	50	50	54.1	51.8	108	104	70-130	4	20	
sopropylbenzene (Cumene)	ug/L	<0.34	50	50	56.7	54.5	113	109	70-130	4	20	
m&p-Xylene	ug/L	< 0.82	100	100	98.4	87.9	98	88	70-130	11	20	
Methyl-tert-butyl ether	ug/L	<0.49	50	50	52.4	53.0	105	106	59-141	1	20	
Methylene Chloride	ug/L	< 0.36	50	50	55.6	56.6	111	113	70-130	2	20	
o-Xylene	ug/L	< 0.50	50	50	50.3	45.7	101	91	70-130	10	20	
Styrene	ug/L	< 0.35	50	50	18.0	12.4	36	25	35-164	37	20	M1,R1
Fetrachloroethene	ug/L	0.85J	50	50	55.6	54.9	109	108	70-130	1	20	
foluene	ug/L	< 0.44	50	50	52.4	51.1	105	102	70-130	2	20	
rans-1,2-Dichloroethene	ug/L	0.60J	50	50	52.8	53.1	104	105	70-130	0	20	
rans-1,3-Dichloropropene	ug/L	<0.30	50	50	46.7	45.1	93	90	55-137	3	20	
Frichloroethene	ug/L	31.3	50	50	87.3	85.2	112	108	70-130	2	20	
richlorofluoromethane	ug/L	<0.48	50	50	57,5	56.9	115	1 1 4	50-150	1	20	
'inyl chloride	ug/L	<0.18	50	50	61.4	61.4	123	123	59-144	0	20	
-Bromofluorobenzene (S)	%						102	101	43-137			
ibromofluoromethane (S)	%						102	103	70-130			
oluene-d8 (S)	%						98	96	55-137			



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

QC Batch:

OEXT/21100

Analysis Method:

EPA 8270 by HVI

QC Batch Method:

EPA 3510

Analysis Description:

8270 Water PAH by HVI

Associated Lab Samples:

4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618007

METHOD BLANK: 918284

Matrix: Water

Date: 01/09/2014 04:39 PM

Associated Lab Samples: 4090618001, 4090618002, 4090618003, 4090618004, 4090618005, 4090618007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0070	0.050	01/03/14 08:34	
2-Methylnaphthalene	ug/L	<0.0068	0.050	01/03/14 08:34	
Acenaphthene	ug/L	< 0.0064	0.050	01/03/14 08:34	
Acenaphthylene	ug/L	< 0.0053	0.050	01/03/14 08:34	
Anthracene	ug/L	< 0.0062	0.050	01/03/14 08:34	
Benzo(a)anthracene	ug/L	<0.0065	0.050	01/03/14 08:34	
Benzo(a)pyrene	ug/L	<0.011	0.050	01/03/14 08:34	
Benzo(b)fluoranthene	ug/L	<0.0083	0.050	01/03/14 08:34	
Benzo(g,h,i)perylene	ug/L	<0,0090	0.050	01/03/14 08:34	
Benzo(k)fluoranthene	ug/L	< 0.012	0.050	01/03/14 08:34	
Chrysene	ug/L	<0.0080	0,050	01/03/14 08:34	
Dibenz(a,h)anthracene	ug/L	< 0.0074	0.050	01/03/14 08:34	
Fluoranthene	ug/L	<0.0058	0.050	01/03/14 08:34	
Fluorene	ug/L	< 0.0072	0.050	01/03/14 08:34	
Indeno(1,2,3-cd)pyrene	ug/L	<0.0095	0.050	01/03/14 08:34	
Naphthalene	ug/L	< 0.0051	0.050	01/03/14 08:34	
Phenanthrene	ug/L	0.0066J	0.050	01/03/14 08:34	
Pyrene	ug/L	< 0.0059	0.050	01/03/14 08:34	
2-Fluorobiphenyl (S)	%	83	39-130	01/03/14 08:34	
Terphenyi-d14 (S)	%	127	73-155	01/03/14 08:34	

ABORATORY CONTROL SAMPLE:	918285					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
-Methylnaphthalene	ug/L	.2	0.17	84	23-130	
-Methylnaphthalene	ug/L	.2	0.17	86	22-130	
Acenaphthene	ug/L	.2	0.16	82	31-130	
cenaphthylene	ug/L	.2	0.16	82	31-130	
nthracene	ug/L	.2	0.19	95	26-130	
enzo(a)anthracene	ug/L	.2	0.20	101	47-130	
enzo(a)pyrene	ug/L	.2	0.20	101	41-130	
nzo(b)fluoranthene	ug/L	.2	0.24	122	37-130	
nzo(g,h,i)perylene	ug/L	.2	0.22	110	37-130	
nzo(k)fluoranthene	ug/L	.2	0,23	114	51-130	
rysene	ug/L	.2	0.22	109	50-130	
oenz(a,h)anthracene	ug/L	.2	0,19	93	34-130	
ioranthene	ug/L	.2	0,21	103	49-130	
uorene	ug/L	.2	0.18	90	30-130	
leno(1,2,3-cd)pyrene	ug/L	,2	0.21	106	36-130	
phthalene	ug/L	.2	0,16	79	24-130	
nenanthrene	ug/L.	.2	0.21	103	39-130	



Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

LABORATORY CONTROL SAMPLE:	918285					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
Pyrene	ug/L	.2	0.21	107	47-130	
2-Fluorobiphenyl (S)	%			81	39-130	
Terphenyl-d14 (S)	%			114	73-155	

MATRIX SPIKE & MATRIX S	SPIKE DUPLICAT	E: 91828	6		918287							
			MS	MSD								
	4	090618002	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1-Methylnaphthalene	ug/L	<0.0070	.2	,2	0.11	0.098	54	46	10-130	14	49	
2-Methylnaphthalene	ug/L	<0.0068	.2	.2	0.13	0.11	62	52	20-130	16	50	
Acenaphthene	ug/L	<0.0064	.2	.2	0.14	0.14	69	70	23-130	2	34	
Acenaphthylene	ug/L	< 0.0053	.2	.2	0.14	0.14	69	71	31-130	3	37	
Anthracene	ug/L	<0.0062	.2	.2	0.18	0.17	89	83	21-130	7	35	
Benzo(a)anthracene	ug/L	0.0068J	.2	.2	0.21	0.20	102	99	10-166	3	27	
Benzo(a)pyrene	ug/L	< 0.011	.2	.2	0.19	0.18	93	89	10-138	4	28	
Benzo(b)fluoranthene	ug/L	0.0091J	.2	.2	0.22	0.22	107	106	10-149	2	27	
Benzo(g,h,i)perylene	ug/L	<0.0090	.2	.2	0.16	0.15	75	72	11-151	4	29	
Benzo(k)fluoranthene	ug/L	< 0.012	.2	.2	0.22	0.22	107	105	17-138	2	26	
Chrysene	ug/L	<0.0080	.2	.2	0.22	0.20	109	95	20-134	13	26	
Dibenz(a,h)anthracene	ug/L	<0.0074	.2	.2	0.16	0.15	77	73	17-156	5	30	
Fluoranthene	ug/L	<0.0058	.2	.2	0.20	0.19	9 5	93	40-130	2	26	
Fluorene	ug/L	<0.0072	.2	.2	0.17	0.17	81	81	30-130	0	34	
ndeno(1,2,3-cd)pyrene	ug/L	<0.0095	.2	.2	0.15	0.15	74	71	12-157	4	29	
Vaphthalene	ug/L	0.0095J	.2	.2	0.15	0.12	70	54	24-130	25	40	
Phenanthrene	ug/L	0.011J	.2	.2	0.21	0.19	98	92	28-130	5	30	
Pyrene	ug/L	0.0065J	.2	.2	0.21	0.20	102	99	16-145	3	25	
2-Fluorobiphenyl (S)	%						70	72	39-130			
Terphenyl-d14 (S)	%						121	118	73-155			





QUALIFIERS

Project:

P101399.40 DA SWAMP

Pace Project No.: 4090618

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

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

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G

Pace Analytical Services - Green Bay

PASI-M

Pace Analytical Services - Minneapolis

BATCH QUALIFIERS

Batch: MSSV/6398

[IP]

Benzo(b)fluoranthene and benzo(k)fluoranthene were in the check standard but did not meet the resolution criteria in SW846 Method 8270C. Whereas sample results included are reported as individual isomers, the lab and the customer must recognize them as an increase pair.

must recognize them as an isomeric pair.

ANALYTE QUALIFIERS

Date: 01/09/2014 04:39 PM

B Analyte was detected in the associated method blank.

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

R1 RPD value was outside control limits.

S4 Surrogate recovery not evaluated against control limits due to sample dilution.



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

P101399.40 DA SWAMP

Pace Project No.:

4090618

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4090618001	MW-1	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618002	MW-3	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618003	MW-4	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618004	MW-2	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618005	MW-5	EPA 3510	OEXT/21100	EPA 8270 by HV	MSSV/6398
4090618007	POTABLE	EPA 3510	OEXT/21100	EPA 8270 by HVI	MSSV/6398
4090618007	POTABLE	EPA 524.2	MSV/26090		
4090618001	MW-1	EPA 8260	MSV/22929		
4090618002	MW-3	EPA 8260	MSV/22929		
4090618003	MW-4	EPA 8260	MSV/22929		
4090618004	MW-2	EPA 8260	MSV/22929		
4090618005	MW-5	EPA 8260	MSV/22929		
4090618006	SUMP	EPA 8260	MSV/22929		
4090618008	TRIP BLANK	EPA 8260	MSV/22929		

Sample Condition Upon Receipt

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

Pace Analytical **				Green Bay, Wi 54
		Project #-	0#:409	20618
Client Name: Endevor En	<u>1. Science</u>	, Mi	U# • 40;	MOTO
Courier: Fed Ex TUPS Client TP				
Tracking #:		409		
Custody Seal on Gooler/Box Present: Figure				
Custody Seal on Samples Present: yes Packing Material: Bubble Wrap		ct: Tyes no		
Thermometer Used A		Blue Dry None	Samples on ice o	ooling process has begun
Cooler Temperature Uncorr: 20\ /Corr:		logical Tissue is Frozen:		ounig process mas sogain
Temp Blank Present: Tyes Ino		•	no. Pe	rson examining contents:
Temp should be above freezing to 6°C for all sample of Frozen Biota Samples should be received ≤ 0°C.	except Biota.	Comments:		e: 12/3//13 lals: <u>My'</u>
Chain of Custody Present:	ZYes DNo DNA	A 1.		
Chain of Custody Filled Out:	ZŸes □No □N/	A 2.		
Chain of Custody Relinguished:	Yes 🗆 No 🗆 N/	3.		
Sampler Name & Signature on COC:	Yes ONO ON	4.		
Samples Arrived within Hold Time:	ØYes □N≎ □N//	5.		
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:		
Short Hold Time Analysis (<72hr):	Yes ONO ON/A	6. PAH Waters	sampled 1	12/27/13 12/3/10
Rush Turn Around Time Requested:	□Yes ☑No □N/A	7.		· · · · · · · · · · · · · · · · · · ·
Sufficient Volume:	Yes DNo DN/A	8.		
Correct Containers Used:	Aves □no □n/A	9.		
-Pace Containers Used:	ZYes □No □N/A			
-Pace IR Containers Used:	□Yes □No □M/A			
Containers Intact:	ØYes □NO □N/A	10		
iltered volume received for Dissolved tests	□Yes □No ZÍN/A	11.		
ample Labels match COC:	ØYes □No □N/A	12.	•	
-includes date/time/ID/Analysis Matrix:	W			
ll containers needing preservation have been checked. Von-Compliance noted in 13.)	. Dyes DNo ZN/A	13. THNO3 TH	12804 T Na0	H T NaOH +ZnAct
Il containers needing preservation are found to be in				
mpliance with EPA recommendation. INO3, H2SO4, ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	□Yes □No ØN/A			
ceptions VOA coliform, TOC, TOX, TOH,	∠ ZYes □Nο	Initial when Lab Std		Date/
G, WIDROW, Phenolics, OTHER:		completed preserva	IIA6	Time:
eadspace in VOA Vials (>6mm):	☐Yes ØNo ☐N/A			*
ip Blank Present:	ZYes Ono On/A	(10. !		
ip Blank Custody Seals Present	res LINO LIN/A			
ace Trip Blank Lot # (if purchased): <u>C0 v(Weck</u>		if checked.	see attached form	for additional comments
Person Contacted:	Date/1	•		Lorente
Comments/ Resolution:			-	<u></u>
Project Manager Review;			Date;	12-31-13
Liplace Migriaffer Veniens!			Pate,	ニノベ・ングハン

Synergy Environmental Lab, INC.

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JOSEPH RAMCHECK ENDEAVOR ENV. SERVICES, INC. 2280-B SALSCHEIDER CT GREEN BAY, WI 54313

Report Date 11-Feb-14

Project Name

DA SWAMP SEYMOUR, WI

Invoice # E26472

Project #

P101399.40

Lab Code

5026472A

Sample ID

MW-10

Sample Matrix water

· Sample Date

2/4/2014

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM	•									
Acenaphthene	. < 1.8	ug/l	1,8	5.6	100	M8270D	2/5/2014	2/8/2014	MDK	1
Acenaphthylene	< 2	ug/l	2	6.3	100	M8270D	2/5/2014	2/8/2014	MDK	1
Anthracene	< 1.8	ug/l	1.8	5.7	100	M8270D	2/5/2014	2/8/2014	MDK	1
Benzo(a)anthracene	< 2.3	ug/l	2.3	7.3	100	M8270D	2/5/2014	2/8/2014	MDK	1
Benzo(a)pyrene	< 2	ug/l	2	6.3	100	M8270D	2/5/2014	2/8/2014	MDK	l
Benzo(b)fluoranthene	< 1.9	ug/l	1.9	6	100	M8270D	2/5/2014	2/8/2014	MDK	i
Benzo(g,h,i)perylene	< 2.4	ug/l	2.4	7.6	100	M8270D	2/5/2014	2/8/2014	MDK	1
Benzo(k)fluoranthene	< 2.7	ug/l	2.7	8.7	100	M8270D	2/5/2014	2/8/2014	MDK	1
Chrysene	< 1.8	ug/Ī	1.8	5.8	100	M8270D	2/5/2014	2/8/2014	MDK	1
Dibenzo(a,h)anthracene	< 2.8	ug/l	2.8	9.2	100	M8270D	2/5/2014	2/8/2014	MDK	1
Fluoranthene	< 2.2	ug/l	2.2	6.9	100	M8270D	2/5/2014	2/8/2014	MDK	1
Fluorene	< 2.2	ug/l	2.2	6.9	100	M8270D	2/5/2014	2/8/2014	MDK	1
Indeno(1,2,3-cd)pyrene	< 2.7	ug/l	2.7	8.6	100	M8270D	2/5/2014	2/8/2014	MDK	1
1-Methyl naphthalene	12.6	ug/l	2.1	6.5	100	M8270D	2/5/2014	2/8/2014	MDK	1
2-Methyl naphthalene	18.3	ug/l	2.4	7.6	100	M8270D	2/5/2014	2/8/2014	MDK	1
Naphthalene	179	ug/l	2.3	7.3	100	M8270D	2/5/2014	2/8/2014	MDK	1
Phenanthrene	< 1.8	ug/l	1.8	5.7	100	M8270D	2/5/2014	2/8/2014	MDK	1
Pyrene	< 2.2	ո g/1	2.2	7.1	001	M8270D	2/5/2014	2/8/2014	MDK	1
VOC's										
Benzene	600	ug/l	12	38.5	50	8260B		2/6/2014	CJR	1
Bromobenzene	< 16	ug/l	16	50	50	8260B		2/6/2014	CJR	f
Bromodichloromethane	< 18.5	ug/l	18.5	60	50	8260B	•	2/6/2014	CJR	1
Bromoform	< 17.5	ug/l	17.5	55	50	8260B		2/6/2014	CJR	1
tert-Butylbenzene	< 18	ug∕l	18	60	50	8260B		2/6/2014	CJR	1
sec-Butylbenzene	< 16.5	ug/l	16.5	50	50	8260B		2/6/2014	CJR	ı
n-Butylbenzene	24 "J"	ug/l	17.5	55	50	8260B		2/6/2014	CJR	1
Carbon Tetrachloride	< 16,5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	1
Chlorobenzene	< 12	ug/l	12	38.5	50	8260B		2/6/2014	CJR	1
Chloroethane	< 31,5	ug/1	31.5	100	50	8260B		2/6/2014	CJR	1
Chloroform	< 14	ug/l	14	44	50	8260B		2/6/2014	CJR	ı
Chloromethane	< 40.5	ug/l	40.5	130	50	8260B		2/6/2014	CJR	I
2-Chlorotoluene	< 10.5	ug/l	10.5	33	50	8260B		2/6/2014	CJR	1

Project #

P101399.40

Lab Code

5026472A

Sample ID

MW-10

Sample Matrix water

Sample Date

2/4/2014

•	Result	Unit	LOD	LOO	Díl	Method	Ext Date	Run Date	Analyst	Code
4-Chlorotoluene	< 10.5	ug/l	10.5	34	50	8260B		2/6/2014	CJR	1
1.2-Dibromo-3-chloropropane	< 44	ug/l	44	140	50	8260B		2/6/2014	CJR	1
Dibromochloromethane	< 11	ug/l	11	35	50	8260B		2/6/2014	CJR	l
1.4-Dichlorobenzene	< 15	ug/l	15	48	50	8260B		2/6/2014	CJR	1
1,3-Dichlorobenzene	< 14	ug/l	14	44.5	50	8260B		2/6/2014	CJR	1
1,3-Dichlorobenzene	< 18	ug/l	18	60	50	8260B		2/6/2014	CJR	1
Dichlorodifluoromethane	< 22	ug/l	22	70	50	8260B		2/6/2014	CJR	1
1,2-Dichloroethane	< 20.5	ug/l	20.5	65	50	8260B		2/6/2014	CJR	1
1,2-Dichloroethane	< 15	ug/l	15	48.5	50	8260B		2/6/2014	CJR	1
	< 20	ug/l	20	65	50	8260B		2/6/2014	CIR	ī
1,1-Dichloroethene	< 19	ug/l	19	60	50	8260B		2/6/2014	CJR	1
cis-1,2-Dichloroethene trans-1,2-Dichloroethene	< 17,5	ug/1	17.5	55	50	8260B		2/6/2014	CJR	l
	< 16	ug/l	16	50	50	8260B		2/6/2014	CJR	1
1,2-Dichloropropane	< 18	ug/l	18	60	50	8260B		2/6/2014	CJR	8
2,2-Dichloropropane	< 16.5	ug/l	16.5	50	50	8260B		2/6/2014	CJR	ſ
1,3-Dichloropropane	< 11.5	ug/l	11.5	36.5	50	8260B		2/6/2014	CJR	1
Di-isopropyl ether	< 22	ug/l	22	70	50	8260B		2/6/2014	CJR	1
EDB (1,2-Dibromoethane)	1800	ug/l	27.5	85	50	8260B		2/6/2014	CJR	1
Ethylbenzene	< 75	ug/1 ug/1	75	240	50	8260B		2/6/2014	CJR	1
Hexachlorobutadiene	59	ug/l	15	48	50	8260B		2/6/2014	CJR	1
Isopropylbenzene	< 15.5	ug/i ug/i	15.5	49	50	8260B		2/6/2014	CJR	1
p-Isopropyltoluene	< 25	ug/l ug/l	25	80	50	8260B		2/6/2014	CJR	1
Methylene chloride		_	11.5	37	50	8260B		2/6/2014	CJR	1
Methyl tert-butyl ether (MTBE)	< 11.5	ug/l	85	275	50	8260B		2/6/2014	CJR	8 29
Naphthalene	430	ug/l	12.5	40.5	50	8260B		2/6/2014	CJR	1
n-Propylbenzene	182	ug/l	22.5	70	50	8260B		2/6/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 22.5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	I
1,1,1,2-Tetrachloroethane	< 16.5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	1
Tetrachloroethene	< 16.5	ug/l	34.5	110	50	8260B		2/6/2014	CJR	1
Toluene	242	ug/l	49	155	50	8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenzene	< 49	ug/l	90	290	50	8260B		2/6/2014	CJR	1
1,2,3-Trichlorobenzene	< 90	ug/l		50	50	8260B		2/6/2014	CJR	1
1,1,1-Trichloroethane	< 16.5	ug/l	16.5	55	50	8260B		2/6/2014	CJR	1
1,1,2-Trichloroethane	< 17	ug/l	17	50	50	8260B		2/6/2014	CJR	1
Trichloroethene (TCE)	< 16.5	ug/l	16.5		50	8260B		2/6/2014	СJR	i
Trichlorofluoromethane	< 35.5	ug/l	35.5	115	50	8260B		2/6/2014	CJR	1
1,2,4-Trimethylbenzene	1540	ug/l	110	345		8260B		2/6/2014	CJR	Ī
1,3,5-Trimethylbenzene	380	ug/l	70	225	50			2/6/2014	CJR	i
Vinyl Chloride	< 9	ug/l	9	28.5	50	8260B		2/6/2014	CJR	1
m&p-Xylene	3900	ug/l	34.5	110	50	8260B		2/6/2014	CJR	i
o-Xylene	1710	ug/l	31.5	100	50	8260B		2/6/2014	CJR	i
SUR - Dibromofluoromethane	96	REC %			50	8260B		2/6/2014	CJR	1
SUR - Toluene-d8	104	REC %			50	8260B		2/6/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	93	REC %			50	8260B		2/6/2014	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			50	8260B		21012014	CJK	1

Project #

P101399.40

Lab Code Sample ID 5026472B

MW-11 Sample Matrix water

	Walti										
Sample Date	2/4/2014								D D 4-	A a Turnet	Cada
		Result	Unit	LOD	LOQ I)il	Method	Ext Date	Run Date	Anaiyst	Code
0											
Organic											
PAH SIM									010/0014) (DV	,
Acenaphthene		< 0.018	ug/l	0.018	0.056	1	M8270D	2/5/2014	2/6/2014	MDK	Į 1
Acenaphthylene		< 0.02	ug/l	0.02	0.063	l	M8270D	2/5/2014	2/6/2014	MDK	1
Anthracene		< 0.018	ug/l	0.018	0.057	I	M8270D	2/5/2014	2/6/2014	MDK	ı,
Benzo(a)anthracene		0.042 "J"	ug/l	0.023	0.073	1	M8270D	2/5/2014	2/6/2014	MDK	l .
Benzo(a)pyrene		< 0.02	ug/l	0.02	0.063	ĺ	M8270D	2/5/2014	2/6/2014	MDK	I .
Benzo(b)fluoranthe	ne	0,025 "J"	ug/l	0.019	0.06	1	M8270D	2/5/2014	2/6/2014	MDK	[
Benzo(g,h,i)perylen-		< 0.024	ug/l	0.024	0.076	1	M8270D	2/5/2014	2/6/2014	MDK	1
Benzo(k)fluoranther		< 0.027	ug/l	0.027	0.087	1	M8270D	2/5/2014	2/6/2014	MDK	I
Chrysene		0.02 "J"	ug/l	0.018	0.058	1	M8270D	2/5/2014	2/6/2014	MDK	l
Dibenzo(a,h)anthrac	cene	< 0.028	ug/l	0.028	0.092	1	M8270D	2/5/2014	2/6/2014	MDK	1
Fluoranthene	001.0	< 0.022	ug/1	0.022	0.069	ı	M8270D	2/5/2014	2/6/2014	MDK	I
Fluorene		< 0.022	ug/l	0.022	0.069	1	M8270D	2/5/2014	2/6/2014	MDK	1
Indeno(1,2,3-cd)pyr	ena	< 0.027	ug/l	0.027	0.086	1	M8270D	2/5/2014	2/6/2014	MDK	l
1-Methyl naphthale		0.023 "J"	ug/l	0.021	0.065	1	M8270D	2/5/2014	2/6/2014	MDK	Ī
2-Methyl naphthale	ne ne	< 0.024	ug/l	0.024	0.076	1	M8270D	2/5/2014	2/6/2014	MDK	1
	iic	0.194	ug/l	0.023	0.073	ı	M8270D	2/5/2014	2/6/2014	MDK	i
Naphthalene Phenanthrene		< 0.018	ug/l	0.018	0.057	I	M8270D	2/5/2014	2/6/2014	MDK	1
		0.025 "J"	ug/l	0.022	0.071	1	M8270D	2/5/2014	2/6/2014	MDK	1
Pyrene		0.025	ug/t	0,022							
VOC's							00.00		2/6/2014	CJR	1
Benzene		< 0.24	ug/l	0,24	0.77	1	8260B			CJR	1
Bromobenzene		< 0.32	ug/l	0.32	1	1	8260B		2/6/2014	CJR	1
Bromodichlorometh	ane	< 0.37	ug/l	0.37	1.2	1	8260B		2/6/2014	CJR	1
Bromoform		< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	1
tert-Butylbenzene		< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014		1
sec-Butylbenzene		< 0.33	ug/l	0.33	1	ı	8260B		2/6/2014	CJR	Ī
n-Butylbenzene		< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	-
Carbon Tetrachlorid	le	< 0.33	ug/l	0.33	1.1	1	8260B		2/6/2014	CJR	1
Chlorobenzene		< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	l ,
Chloroethane		< 0.63	ug/l	0.63	2	1	8260B		2/6/2014	CJR	I
Chloroform		< 0.28	ug/t	0.28	0.88	l	8260B		2/6/2014	CJR	1
Chloromethane		< 0.81	ug/l	0.81	2.6	1	8260B		2/6/2014	CJR	l •
2-Chlorotoluene		< 0.21	ug/l	0.21	0.66	1	8260B		2/6/2014	CJR	1
4-Chlorotoluene		< 0.21	ug/l	0.21	0.68	1	8260B		2/6/2014	CJR	l .
1,2-Dibromo-3-chlo	ropropane	< 0.88	ug/l	88,0	2.8	ı	8260B		2/6/2014	CJR	Ī
Dibromochlorometh		< 0.22	u <u>e</u> /l	0.22	0.7	1	8260B		2/6/2014	CJR	1
1,4-Dichlorobenzen		< 0.3	ug/l	0.3	0.96	1	8260B		2/6/2014	CJR	I
1.3-Dichlorobenzene		< 0.28	ug/l	0,28	0.89	1	8260B		2/6/2014	CJR	1
1,2-Dichlorobenzen		< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	l .
Dichlorodifluorome		< 0.44	ug/l	0.44	1.4	t	8260B		2/6/2014	CJR	1
1,2-Dichloroethane		< 0.41	ug/l	0.41	1.3	1	8260B		2/6/2014	CJR	1
1,1-Dichloroethane		< 0.3	ug/l	0.3	0.97	1	8260B		2/6/2014	CJR	I
1,1-Dichloroethene		< 0.4	ug/l	0.4	1.3	1	8260B		2/6/2014	CJR	1
cis-1,2-Dichloroethe	nna.	< 0.38	ug/I	0.38	1.2	1	8260B		2/6/2014	CJR	ı
trans-1,2-Dichloroet		< 0.35	ug/l	0.35	1.1	1	8260B		2/6/2014	CJR	l
		< 0.32	ug/l	0,32	1	1	8260B		2/6/2014	CJR	1
1,2-Dichloropropane		< 0.36	ug/l	0.36	1.2	1	8260B		2/6/2014	CJR	8
2,2-Dichloropropane		< 0.33	ug/l	0.33	1	i	8260B		2/6/2014	CJR	1
1,3-Dichloropropand	2	< 0.23	ug/l	0.23	0.73	1	8260B		2/6/2014	CJR	1
Di-isopropyl ether	4 3		_	0.44	1.4	1	8260B		2/6/2014	CJR	1
EDB (1,2-Dibromoe	unane)	< 0.44	ug/l	0.55	1.7	1	8260B		2/6/2014	CJR	1
Ethylbenzene		< 0.55	ug/l	0.33 1.5	4.8	i	8260B		2/6/2014	CJR	1
Hexachlorobutadien	e	< 1.5	ug/l		0.96	ľ	8260B		2/6/2014	CJR	1
Isopropylbenzene		< 0.3	ug/l	0.3 0.31	0.98	1	8260B		2/6/2014	CJR	1
p-Isopropyltoluene		< 0.31	ug/l	0.51	1.6	l	8260B		2/6/2014	CJR	1
Methylene chloride	a -ese	< 0.5	ug/l		0.74	1	8260B		2/6/2014	CJR	1
Methyl tert-butyl eth	ier (MTBE)	0.28 "J"	ug/["	0.23		į	8260B 8260B		2/6/2014	CJR	8 29
Naphthalene		< 1.7	ug/l	1.7	5.5 0.81	1	8260B		2/6/2014	CJR	1
n-Propylbenzene		< 0.25	ug/l	0.25	0.61	1	0200D				

Project #

P101399.40

Lab Code

5026472B

Sample ID

MW-11

Sample Matrix water

Sample Date 2/4/2014

	Result	Unit	LOD I	LOO D	il	Method	Ext Date	Run Date	Analyst	Code
1,1,2,2-Tetrachloroethane	< 0.45	ug/I	0.45	1.4	1	8260B		2/6/2014	CJR	1
1,1,2,2-Tetrachloroethane	< 0.33	ug/l	0.33	1.1	I	8260B		2/6/2014	CJR	1
Tetrachloroethene	< 0.33	ug/1	0.33	1.1	1	8260B		2/6/2014	CJR	1
Toluene	< 0.69	ug/l	0.69	2.2	- 1	8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenzene	< 0.98	ug/l	0.98	3.1	1	8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenzene	< 1.8	ug/l	1.8	5.8	1	8260B		2/6/2014	CJR	1
1,2,3- richloroethane	< 0.33	ug/l	0.33	1	1	8260B		2/6/2014	CJR	1
1,1,2-Trichloroethane	< 0.34	ug/l	0.34	1.1	ı	8260B		2/6/2014	CJR	I
Trichloroethene (TCE)	< 0.33	ug/l	0.33	[1	8260B		2/6/2014	CJR	1
Trichlorofluoromethane	< 0.71	ug/l	0.71	2.3	1	8260B		2/6/2014	CJR	1
1,2,4-Trimethylbenzene	< 2,2	ug/l	2.2	6.9	1	8260B		2/6/2014	CJR	1
• •	< 1.4	ug/l	1.4	4.5	1	8260B		2/6/2014	CJR	I
1,3,5-Trimethylbenzene	< 0.18	ug/l	0.18	0.57	1	8260B		2/6/2014	CJR	Ī
Vinyl Chloride	< 0.69	ug/l	0.69	2,2	1	8260B		2/6/2014	CJR	1
m&p-Xylene	< 0.63	ug/l	0.63	2	1	8260B		2/6/2014	CJR	1
o-Xylene	0.03	REC %	0.05		1	8260B		2/6/2014	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			i	8260B		2/6/2014	CJR	l
SUR - Toluene-d8	102	REC %			1	8260B		2/6/2014	CJR	!
SUR - 4-Bromofluorobenzene		REC %			1	8260B		2/6/2014	CJR	1
SUR - Dibromofluoromethane	95	KEC 76				0#000				

Project # P101399.40

Lab Code 5026472C Sample ID TRIP BLANKS

Sample Matrix water Sample Date 2/4/2014

Sample Manax											
Sample Date	2/4/2014			- 07	* 00	D.II	Not a the end	Ewt Dota	Run Date	Analyst	Code
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Kun Date	Amaryst	Code
Organic											
VOC's											
		< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	l
Benzene		< 0.32	ug/l	0.32			8260B		2/6/2014	CJR	1
Bromobenzene Bromodichloromet	hana	< 0.37	ug/l	0.37			8260B		2/6/2014	CJR	i
Bromoform	nanc	< 0.35	ug/l	0.35			8260B		2/6/2014	CJR	1
tert-Butylbenzene		< 0.36	ug/l	0.36			8260B		2/6/2014	CJR	1
sec-Butylbenzene		< 0.33	ug/l	0.33	l	. 1	8260B		2/6/2014	CJR	1
n-Butylbenzene		< 0.35	ug/l	0.35		ļ	8260B		2/6/2014	CJR	1
Carbon Tetrachlorie	de	< 0.33	ug/l	0.33	1.1	. 1	8260B		2/6/2014	CJR	1
Chlorobenzene		< 0.24	ug/l	0.24	0.77	1	8260B		2/6/2014	CJR	1
Chloroethane		< 0.63	ug/l	0.63	. 2	. 1	8260B		2/6/2014	CJR	1
Chloroform		< 0.28	ug/l	0.28	0.88	1	8260B		2/6/2014	CJR	1
Chloromethane		< 0.81	ug/l	0.81	2.6	1	8260B		2/6/2014	CJR	1
2-Chlorotoluene		< 0.21	ug/l	0.21	0.66	1	8260B		2/6/2014	CJR	1
4-Chlorotoluene		< 0.21	ug/l	0.21	0.68	1	8260B		2/6/2014	CIR	1
1.2-Dibromo-3-chk	oropropane	< 0.88	ug/l	0.88			8260B		2/6/2014	CJR	1
Dibromochloromet	hane	< 0.22	ug/l	0.22			8260B		2/6/2014	CJR	I,
1,4-Dichlorobenzer		< 0.3	ug/l	0.3			8260B		2/6/2014	CJR	1
1,3-Dichlorobenzen		< 0.28	ug/l	0.28	0.89		8260B		2/6/2014	CJR	1
1,2-Dichlorobenzer	ne e	< 0.36	ug/l	0.36			8260B		2/6/2014	CJR CJR	1 1
Dichlorodifluorome	ethane	< 0.44	ug/l	0.44			8260B		2/6/2014	CJR	i
1,2-Dichloroethane		< 0.41	ug/l	0.41			8260B		2/6/2014	CJR	1
1,1-Dichloroethane		< 0.3	ug/l	0.3			8260B		2/6/2014 2/6/2014	CJR	1
1,1-Dichloroethene		< 0.4	ug/l	0.4			8260B		2/6/2014	CJR	1
cis-1,2-Dichloroeth	ene	< 0.38	ug/l	0.38			8260B		2/6/2014	CJR	1
trans-1,2-Dichloroe	thene	< 0.35	ug/l	0.35			8260B		2/6/2014	CJR	1
1,2-Dichloropropan	nė	< 0.32	ug/l	0.32			8260B 8260B		2/6/2014	CJR	8
2,2-Dichloropropan		< 0.36	ug/I	0.36			8260B 8260B		2/6/2014	CJR	1
1,3-Dichloropropan	16	< 0.33	ug/1	0.33			8260B		2/6/2014	СJR	1
Di-isopropyl ether		< 0.23	ug/l	0.23 0.44			8260B		2/6/2014	CJR	1
EDB (1,2-Dibromo	ethane)	< 0.44	ug/l	0.55			8260B		2/6/2014	CJR	1
Ethylbenzene		< 0.55	ug/l	1.5			8260B		2/6/2014	CJR	1
Hexachlorobutadiet	ne	< 1.5	ug/1	0.3			8260B		2/6/2014	CJR	1
Isopropylbenzene		< 0.3	ug/l	0.31			8260B		2/6/2014	CJR	1
p-Isopropyltoluene		< 0.31	ug/l ug/l	0.51			8260B		2/6/2014	CJR	1
Methylene chloride		< 0.5 < 0.23	ug/I ug/I	0.23			8260B		2/6/2014	CJR	1
Methyl tert-butyl et	ner (MIBE)	< 0.23 < 1.7	ug/I	1.7			8260B		2/6/2014	CJR	8 29
Naphthalene		< 0.25	ug/l	0.25			8260B		2/6/2014	CJR	1
n-Propylbenzene	athana	< 0.45	ug/l	0.45			8260B		2/6/2014	CJR	1
1,1,2,2-Tetrachloro 1,1,1,2-Tetrachloro		< 0.33	ug/l	0.33			8260B		2/6/2014	CJR	1
Tetrachloroethene	Colaire	< 0.33	ug/l	0.33			8260B		2/6/2014	CJR	1
Toluene		< 0.69	ug/l	0.69			8260B		2/6/2014	CJR	1
1,2,4-Trichlorobenz	rene	< 0.98	ug/l	0.98			8260B		2/6/2014	CJR	1
1,2,3-Trichlorobenz		< 1.8	ug/l	1.8			8260B		2/6/2014	CJR	1
1,1,1-Trichloroetha		< 0.33	ug/i	0.33			8260B		2/6/2014	CJR	1
1,1,2-Trichloroetha		< 0.34	ug/l	0.34		ı	8260B		2/6/2014	CJR	1
Trichloroethene (TO		< 0.33	ug/l	0.33	l	. 1	8260B		2/6/2014	CJR	l
Trichlorofluoromet		< 0.71	ug/l	0.71	2.3	- 1	8260B		2/6/2014	CJR	l
1,2,4-Trimethylben		< 2.2	սց/Լ	2.2	6.9	1	8260B		2/6/2014	CJR	l
1,3,5-Trimethylben		< 1.4	ug/l	1,4	4.5	1	8260B		2/6/2014	CJR	1
Vinyl Chloride		< 0.18	ug/l	0.18			8260B		2/6/2014	CJR	1
m&p-Xylene		< 0.69	ug/l	0.69	2.2	l	8260B		2/6/2014	CJR	l 1
o-Xylene		< 0.63	ug/l	0.63	2		8260B		2/6/2014	CJR	l 1
SUR - Toluene-d8		101	REC %			1	8260B		2/6/2014	СJR	1
SUR - 1,2-Dichloro	ethane-d4	101	REC %			1	8260B		2/6/2014	CJR	1 1
SUR - 4-Bromofluo		102	REC %			i	8260B		2/6/2014	CJR CJR	1
SUR - Dibromofluo	romethane	97	REC %]	8260B		2/6/2014	CAK	•

Project Name DA SWAMP SEYMOUR, WI Invoice # E26472
Project # P101399,40

Flag: Analyte detected	between LOD and LOQ	LOD Limit of Detection	LOQ Limit of Quantitation
Code	e Comment		
1	Laboratory QC within	limits.	
8	Closing calibration sta	ndard not within established limits.	
29	Closing continuing call	bration verification failed due to instru	iment carryover.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Michaelflel

Authorized Signature





March 22, 2018

Joe Ramcheck Endeavor Environmental Services, Inc. 2280-B Salscheider Court Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR

Pace Project No.: 40165904

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on March 14, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska christopher.hyska@pacelabs.com

(920)469-2436 Project Manager

Chuskphen Hyska

Enclosures







CERTIFICATIONS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40165904001	MW-1	Water	03/12/18 10:50	03/14/18 17:55
40165904002	MW-3	Water	03/12/18 11:10	03/14/18 17:55
40165904003	MW-4	Water	03/12/18 11:25	03/14/18 17:55
40165904004	PZ-1	Water	03/12/18 11:42	03/14/18 17:55
40165904005	MW-21	Water	03/12/18 12:05	03/14/18 17:55
40165904006	MW-20	Water	03/12/18 12:30	03/14/18 17:55
40165904007	MW-11	Water	03/12/18 13:02	03/14/18 17:55
40165904008	MW-10	Water	03/12/18 13:15	03/14/18 17:55
40165904009	MW-2	Water	03/12/18 13:35	03/14/18 17:55
40165904010	MW-5R	Water	03/12/18 13:50	03/14/18 17:55
40165904011	TRIP BLANK	Water	03/12/18 00:00	03/14/18 17:55



SAMPLE ANALYTE COUNT

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40165904001	MW-1	WI MOD GRO	ALD	10	PASI-G
40165904002	MW-3	WI MOD GRO	AL.D	10	PASI-G
40165904003	MW-4	WI MOD GRO	ALD	10	PASI-G
40165904004	PZ-1	WI MOD GRO	ALD	10	PASI-G
40165904005	MW-21	WI MOD GRO	ALD	10	PASI-G
10165904006	MW-20	WI MOD GRO	ALD	10	PASI-G
10165904007	MW-11	WI MOD GRO	ALD	10	PASI-G
0165904008	MW-10	WI MOD GRO	ALD	10	PASI-G
10165904009	MW-2	WI MOD GRO	ALD	10	PASI-G
0165904010	MW-5R	WI MOD GRO	ALD	10	PASI-G
0165904011	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G



SUMMARY OF DETECTION

Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40165904

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165904004	PZ-1					
WI MOD GRO	Ethylbenzene	0.48J	ug/L.	1.0	03/16/18 14:10	
WI MOD GRO	Methyl-tert-butyl ether	0.85J	ug/L	1.0	03/16/18 14:10	
WI MOD GRO	Naphthalene	1.2	ug/L	1.0	03/16/18 14:10	
WI MOD GRO	1,2,4-Trimethylbenzene	0.70J	ug/L	1.0		
40165904005	MW-21					
WI MOD GRO	Ethylbenzene	0.46J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	Naphthalene	0.55J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	Toluene	0.66J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	1,2,4-Trimethylbenzene	0.95J	ug/L	1.0	03/19/18 11:10	
WI MOD GRO	m&p-Xylene	1.2J	ug/L	2.0	03/19/18 11:10	
WI MOD GRO	o-Xylene	0.60J	ug/L	1.0	03/19/18 11:10	
10165904006	MW-20					
WI MOD GRO	Benzene	13.4	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Ethylbenzene ·	5.4	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Methyl-tert-butyl ether	9.9	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	Naphthalene	1.1	ug/L.	1.0	03/16/18 19:18	
WI MOD GRO	Toluene	0.56J	ug/L	1.0	03/16/18 19:18	
WI MOD GRO	1,2,4-Trimethylbenzene	1.7	ug/L		03/16/18 19:18	
WI MOD GRO	m&p-Xylene	1.5J	ug/L	2.0	03/16/18 19:18	
WI MOD GRO	o-Xylene	0.94J	ug/L		03/16/18 19:18	
10165904008	MW-10					
WI MOD GRO	Benzene	208	ug/L	20,0	03/16/18 17:10	
WI MOD GRO	Ethylbenzene	1010	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Methyl-tert-butyl ether	12.9J	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Naphthalene	354	ug/L	20.0	03/16/18 17:10	
WI MOD GRO	Toluene	95.5	ug/L	20.0	03/16/18 17:10	
VI MOD GRO	1,2,4-Trimethylbenzene	934	ug/L	20.0	03/16/18 17:10	
VI MOD GRO	1,3,5-Trimethylbenzene	256	ug/L	20.0	03/16/18 17:10	
VI MOD GRO	m&p-Xylene	2660	ug/L		03/16/18 17:10	
VI MOD GRO	o-Xylene	1100	ug/L.		03/16/18 17:10	
0165904009	MW-2					
VI MOD GRO	Benzene	2990	ug/L	40.0	03/20/18 16:13	
VI MOD GRO	Ethylbenzene	301	ug/L		03/20/18 16:13	
VI MOD GRO	Methyl-tert-butyl ether	22,3J	ug/L		03/20/18 16:13	
VI MOD GRO VI MOD GRO	Naphthalene	78.5	ug/L ug/L	40.0	03/20/18 16:13	
VI MOD GRO VI MOD GRO	Toluene	2960	-		03/20/18 16:13	
VI MOD GRO	1,2,4-Trimethylbenzene		ug/L		03/20/18 16:13	
		214	ug/L			
VI MOD GRO	1,3,5-Trimethylbenzene	53.5	ug/L		03/20/18 16:13	
/I MOD GRO /I MOD GRO	m&p-Xylene	801 412	ug/L.		03/20/18 16:13 03/20/18 16:13	
	o-Xylene	412	ug/L	40,0	03/20/30 [0, [3	
0165904010	MW-5R	205		400	00/04/40 40:44	
/I MOD GRO	Benzene	665	ug/L.		03/21/18 12:44	
/I MOD GRO	Ethylbenzene	2760	ug/L		03/21/18 12:44	
/I MOD GRO	Naphthalene	865	ug/L	100	03/21/18 12:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40165904

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40165904010	MW-5R					
WI MOD GRO	Toluene	7240	ug/L	100	03/21/18 12:44	
WI MOD GRO	1,2,4-Trimethylbenzene	3120	ug/L	100	03/21/18 12:44	
WI MOD GRO	1,3,5-Trimethylbenzene	849	ug/L	100	03/21/18 12:44	
WI MOD GRO	m&p-Xylene	8860	ug/L	200	03/21/18 12:44	
WI MOD GRO	o-Xylene	3330	ug/L	100	03/21/18 12:44	





PROJECT NARRATIVE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

Method:

WI MOD GRO

Description: WIGRO GCV

Client:

Endeavor Environmental Services, Inc.

Date:

March 22, 2018

General Information:

11 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project:

P101399.40 DA SWAMP BAR

Sample: MW-1	Lab ID:	40165904001	Collecte	d: 03/12/1	18 10:50	Received: 0	3/14/18 17:55	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/19/18 10:4	4 71-43-2	
Ethylbenzene	< 0.39	ug/L	1.0	0.39	1		03/19/18 10:4	4 100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/19/18 10:4	4 1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		03/19/18 10:4	4 91-20-3	
Toluene	<0.39	ug/L	1.0	0.39	1		03/19/18 10:4	4 108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/19/18 10:4	4 95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/19/18 10:4		
m&p-Xylene	<0.80	ug/L	2.0	0.80	1			4 179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		03/19/18 10:4		
Surrogates		ug. L		0.10			00110110101	1 00 47 0	
a,a,a-Trifluorotoluene (S)	104	%	80-120		1		03/19/18 10:4	4 98-08-8	
Sample: MW-3	Lab ID:	40165904002	Collected	l: 03/12/1	8 11:10	Received: 03	3/14/18 17:55 N	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/16/18 13:1:	9 71-43-2	
Ethylbenzene	< 0.39	ug/L	1.0	0.39	1		03/16/18 13:1	9 100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/16/18 13:1	9 1634-04-4	
Vaphthalene	<0,42	ug/L	1.0	0.42	1		03/16/18 13:1	9 91-20-3	
Toluene	<0,39	ug/L	1.0	0.39	1		03/16/18 13:1		
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/16/18 13:19	9 95-63-6	
1,3,5-Trimethylbenzene	<0,42	ug/L	1.0	0.42	1		03/16/18 13:19		
n&p-Xylene	<0.80	ug/L	2.0	0.80	1 .			9 179601-23-1	
o-Xylene	<0.45	ug/L	1.0	0.45	1		03/16/18 13:19		
Surrogates	75115	~g	1.0	0.10	•		00.10.10.10.11		
a,a,a-Trifluorotoluene (S)	102	%	80-120		1		03/16/18 13:19	98-08-8	•
Sample: MW-4	Lab ID:	40165904003	Collected	03/12/18	11;25	Received: 03	/14/18 17:55 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical N	//ethod: W! MO	D GRO	,,				- 11	
Benzene	<0.40	ug/L	1.0	0.40	1		03/16/18 13:44	71-43-2	
thylbenzene	<0.39	ug/L	1.0	0,39	1		03/16/18 13:44	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/16/18 13:44		
laphthalene	<0.42	ug/L	1.0	0.42	1		03/16/18 13:44		
oluene	<0.39	ug/L	1.0	0.39	1		03/16/18 13:44		
,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	i 1		03/16/18 13:44		
,3,5-Trimethylbenzene	<0.42	ug/L ug/L	1.0	0.42	1		03/16/18 13:44		
n&p-Xylene	<0.80	ug/L	2.0	0.42	1		03/16/18 13:44		
-Xylene	<0.45	ug/L ug/L	1.0	0.00			201 101 10 10.44	95-47-6	

REPORT OF LABORATORY ANALYSIS

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Project:

a,a,a-Trifluorotoluene (S)

Date: 03/22/2018 12:44 PM

104

P101399.40 DA SWAMP BAR

Pace Project No.: 40165904		40405004000	5.11.		0.44.05	D 1 1 0			•
Sample: MW-4	Lab ID:	40165904003	Collected	d: 03/12/1	8 11:25	Received: 03	3/14/18 17:55 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytical	Method: WI MO	DD GRO						
Surrogates a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 13:44	98-08-8	
Sample: PZ-1	Lab ID:	40165904004	Collected	1: 03/12/1	8 11:42	Received: 03	3/14/18 17:55 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/16/18 14:10	71-43-2	
Ethylbenzene	0.48J	ug/L	1.0	0.39	1		03/16/18 14:10	100-41-4	
Methyl-tert-butyl ether	0.85J	ug/L	1.0	0.48	1		03/16/18 14:10	1634-04-4	
Naphthalene	1.2	ug/L	1.0	0.42	1		03/16/18 14:10		
Toluene	<0.39	ug/L	1.0	0.39	1		03/16/18 14:10		
1,2,4-Trimethylbenzene	0.70J	ug/L	1.0	0.42	1		03/16/18 14:10		
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/16/18 14:10		
n&p-Xylene	<0.80	ug/L	2.0	0.80	1		03/16/18 14:10		
o-Xylene	<0.45	ug/L	1.0	0.45	1		03/16/18 14:10		
Surrogates		-9			,			, -	
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 14:10	98-08-8	
Sample: MW-21	Lab ID:	40165904005	Collected	: 03/12/18	3 12:05	Received: 03	/14/18 17:55 Ma	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
MIGRO GCV	Analytical	Method: WI MO	D GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/19/18 11:10	71-43-2	
Ethylbenzene	0.46J	ug/L	1.0	0.39	1		03/19/18 11:10	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/19/18 11:10	1634-04-4	
laphthalene	0.55J	ug/L	1.0	0.42	1		03/19/18 11:10	91-20-3	
oluene	0.66J	ug/L	1.0	0.39	1		03/19/18 11:10		
,2,4-Trimethylbenzene	0.95J	ug/L	1.0	0.42	1		03/19/18 11:10	95-63-6	
,3,5-Trimethylbenzene	< 0.42	ug/L	1,0	0.42	1		03/19/18 11:10	108-67-8	
n&p-Xylene	1,2J	ug/L	2.0	0.80	1		03/19/18 11:10		
-Xylene	0.60J	ug/L	1.0	0.45	1		03/19/18 11:10		
urrogales	2.222	e-			•			-	
Tillian Line (O)	404	Λ/	00.400				004040 44-40		

REPORT OF LABORATORY ANALYSIS

80-120

03/19/18 11:10 98-08-8



Project:

P101399.40 DA SWAMP BAR

Date: 03/22/2018 12:44 PM

40165904

Sample: MW-20	Lab ID:	40165904006	Collected	: 03/12/1	18 12:30	Received: 0	3/14/18 17:55 I	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Benzene	13.4	ug/L	1.0	0.40	1		03/16/18 19:1	8 71-43-2	
Ethylbenzene	5.4	ug/L	1.0	0,39	1		03/16/18 19:1	8 100-41-4	
Methyl-tert-butyl ether	9.9	ug/L	1.0	0.48	1		03/16/18 19:1	8 1634-04-4	
Naphthalene	1.1	ug/L	1.0	0.42	1		03/16/18 19:1	8 91-20-3	
Toluene	0.56J	ug/L	1.0	0.39	1		03/16/18 19:1	8 108-88-3	
1,2,4-Trimethylbenzene	1.7	ug/L	1.0	0.42	1		03/16/18 19:18	B 95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/16/18 19:18		
m&p-Xylene	1.5J	ug/L	2.0	0.80	1		03/16/18 19:11	8 179601-23-1	
o-Xylene	0.94J	ug/L	-1.0	0.45	1		03/16/18 19:18		
Surrogates	******	~g, _		0,10	•		***************************************		
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 19:18	3 98-08-8	
•								_	
Sample: MW-11	Lab ID:	40165904007	Collected:	03/12/1	8 13:02	Received: 03	3/14/18 17:55 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/16/18 15:02	? 71-43 - 2	
Ethylbenzene	< 0.39	ug/L	1.0	0.39	1		03/16/18 15:02	2 100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/16/18 15:02	1634-04-4	
Naphthalene	< 0.42	ug/L	1.0	0.42	1		03/16/18 15:02	91-20-3	
Toluene	< 0.39	ug/L	1.0	0.39	1		03/16/18 15:02	2 108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/16/18 15:02	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/16/18 15:02	108-67-8	
n&p-Xylene	<0.80	ug/L	2.0	0.80	1		03/16/18 15:02	179601-23-1	
-Xylene	<0.45	ug/L	1.0	0.45	1		03/16/18 15:02	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1		03/16/18 15:02	98-08-8	
Sample: MW-10	Lab ID:	40165904008	Collected:	03/12/18	3 13:15	Received: 03	/14/18 17:55 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical I	Method: WI MO	D GRO						
Senzene	208	ug/L.	20.0	7.9	20		03/16/18 17:10	71-43-2	
ithylbenzene	1010	ug/L	20.0	7.9	20		03/16/18 17:10		
Methyl-tert-butyl ether	12.9J	ug/L	20.0	9.7	20		03/16/18 17:10		
laphthalene	354	ug/L	20.0	8.5	20		03/16/18 17:10		
oluene	95.5	ug/L	20.0	7.8	20		03/16/18 17:10		
,2,4-Trimethylbenzene	934	ug/L	20.0	8.4	20		03/16/18 17:10		
3,5-Trimethylbenzene	256	ug/L	20.0	8.3	20		03/16/18 17:10		
,5,5-11metrypenzene n&p-Xylene	2660	ug/L	40.0	16.0	20		03/16/18 17:10		
wh-where	2000	ug/L	70.0	10.0	20		SULLOUID IT. ID	110001-20-1	



Project:

P101399.40 DA SWAMP BAR

Date: 03/22/2018 12:44 PM

Pace Project No.: 40165904									
Sample: MW-10	Lab ID:	40165904008	Collected	1: 03/12/1	3 13:15	Received: 03	3/14/18 17:55 M	atrix: Water	
Parameters	Results -	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Surrogates a,a,a-Trifluorotoluene (S)	105	%	80-120		20		03/16/18 17:10	98-08-8	
Sample: MW-2	Lab ID:	40165904009	Collected	1: 03/12/18	3 13:35	Received: 03	3/14/18 17:55 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	D GRO						
Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene m&p-Xylene o-Xylene Surrogates a,a,a-Trifluorotoluene (S) Sample: MW-5R	2990 301 22.3J 78.5 2960 214 53.5 801 412 99	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	40.0 40.0 40.0 40.0 40.0 40.0 80.0 40.0 80-120	15.8 15.7 19.4 17.0 15.5 16.7 16.6 32.0 18.0	40 40 40 40 40 40 40 40 40 40 DF	Received: 03	03/20/18 16:13 03/20/18 16:13 03/20/18 16:13 03/20/18 16:13 03/20/18 16:13 03/20/18 16:13 03/20/18 16:13 03/20/18 16:13 03/20/18 16:13	100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8 179601-23-1 95-47-6	Qual
WIGRO GCV	Analytical I	Method: WI MO	D GRO						
Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Foluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene n&p-Xylene -Xylene	665 2760 <48.5 865 7240 3120 849 8860 3330	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	100 100 100 100 100 100 100 200 100	39.6 39.3 48.5 42.4 38.8 41.8 41.6 79.9 44.9	100 100 100 100 100 100 100 100		03/21/18 12:44 03/21/18 12:44 03/21/18 12:44 03/21/18 12:44 03/21/18 12:44 03/21/18 12:44 03/21/18 12:44 03/21/18 12:44	100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8 179601-23-1	
Surrogates n,a,a-Trifluorotoluene (S)	102	%	80-120		100		03/21/18 12:44	98-08-8	



Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40165904

Sample: TRIP BLANK	Lab ID:	40165904011	Collecte	d: 03/12/18	3 00:00	Received: 03	/14/18 17:55 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	<0.40	ug/L	1.0	0,40	1		03/20/18 14:06	71-43-2	
Ethylbenzene	< 0.39	ug/L	1.0	0.39	1		03/20/18 14:06	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/20/18 14:06	1634-04-4	
Naphthalene	< 0.42	ug/L	1.0	0.42	1		03/20/18 14:06	91-20-3	
Toluene	< 0.39	ug/L	1.0	0.39	1		03/20/18 14:06	108-88-3	
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/20/18 14:06	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/20/18 14:06	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		03/20/18 14:06	179601-23-1	
o-Xylene <i>Surrogates</i>	<0.45	ug/L	1.0	0.45	1		03/20/18 14:06	95-47-6	
a,a,a-Trifluorotoluene (S)	100	%	80-120		1		03/20/18 14:06	98-08-8	



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

QC Batch:

283467

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

40165904001, 40165904002, 40165904003, 40165904004, 40165904005, 40165904006, 40165904007,

40165904008

METHOD BLANK: 1659983

Matrix: Water

Associated Lab Samples:

Date: 03/22/2018 12:44 PM

40165904001, 40165904002, 40165904003, 40165904004, 40165904005, 40165904006, 40165904007,

40165904008

		Blank	Reporting				
Parameter	Units	Result	Limit	Analyzed	Qualifiers		
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/16/18 10:44			
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/16/18 10:44			
Benzene	ug/L	<0.40	1.0	03/16/18 10:44			
Ethylbenzene	ug/L	<0.39	1.0	03/16/18 10:44			
m&p-Xylene	ug/L	<0.80	2.0	03/16/18 10:44			
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/16/18 10:44			
Naphthalene	ug/L	<0.42	1.0	03/16/18 10:44			
o-Xylene	ug/L	<0.45	1.0	03/16/18 10:44			
Toluene	ug/L	<0.39	1,0	03/16/18 10:44			
a,a,a-Trifluorotoluene (S)	%	103	80-120	03/16/18 10:44			

LABORATORY CONTROL SAMPL	E & LCSD: 1659984	1659985								
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.4	21.3	107	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.8	20.9	104	105	80-120	0	20	
Benzene	ug/L	20	21.2	20.9	106	104	80-120	1	20	
Ethylbenzene	ug/L	20	21.6	21.3	108	106	80-120	1	20	
m&p-Xylene	ug/L	40	42.3	41.9	106	105	80-120	1	20	
Methyl-tert-butyl ether	ug/ l _	20	21.0	19.7	105	98	80-120	7	20	
Naphthalene	ug/L	20	21.5	21.1	108	106	80-120	2	20	
o-Xylene	ug/L	20	21.2	21.1	106	105	80-120	1	20	
Toluene	ug/L	20	21.4	21.2	107	106	80-120	1	20	
a,a,a-Trifluorotoluene (S)	%				102	105	80-120			

MATRIX SPIKE & MATRIX S	PIKE DUPLIC	CATE: 16600	93		1660094							
Parameter	Units	40165904008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	934	400	400	1370	1370	109	108	11-200	0	20	
1,3,5-Trimethylbenzene	ug/L	256	400	400	679	675	106	105	54-142	1	20	
Benzene	ug/L	208	400	400	610	601	100	98	66-140	1	20	
Ethylbenzene	ug/L	1010	400	400	1460	1450	113	110	66-143	1	20	
m&p-Xylene	ug/L	2660	800	800	3540	3520	110	107	60-141	1	20	
Methyl-tert-butyl ether	ug/L	12.9J	400	400	397	401	96	97	70-129	1	20	
Naphthalene	ug/L	354	400	400	749	756	99	100	64-129	1	20	
o-Xylene	ug/L	1100	400	400	1540	1520	109	106	68-132	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40165904

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	CATE: 16600	93		1660094							
		40165904008	MS Spike	MSD Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Toluene a,a,a-Trifluorotoluene (S)	ug/L %	95.5	400	400	518	506	106 106	103 104	76-130 80-120	2	20	-

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

Date: 03/22/2018 12:44 PM



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

QC Batch:

283701

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

40165904009, 40165904010, 40165904011

METHOD BLANK: 1661076

Matrix; Water

Associated Lab Samples: 40165904009, 40165904010, 40165904011

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/20/18 08:59	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/20/18 08:59	
Benzene	ug/L	<0.40	1.0	03/20/18 08:59	
Ethylbenzene	ug/L	<0.39	1.0	03/20/18 08:59	
m&p-Xylene	ug/L	<0.80	2.0	03/20/18 08:59	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/20/18 08:59	
Naphthalene	ug/L	< 0.42	1.0	03/20/18 08:59	
o-Xylene	ug/L	<0.45	1.0	03/20/18 08:59	
Toluene	ug/L	< 0.39	1.0	03/20/18 08;59	
a,a,a-Trifluorotoluene (S)	%	102	80-120	03/20/18 08:59	

LABORATORY CONTROL SAMPL	E & LCSD: 1661077		16	61078						
·		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.0	19.7	100	98	80-120	2	20	
1,3,5-Trimethylbenzene	ug/L	20	19.3	19.1	97	95	80-120	1	20	
Benzene	ug/L	20	19.4	19.5	97	97	80-120	0	20	
Ethylbenzene	ug/L	20	19.5	19.3	98	97	80-120	1	20	
m&p-Xylene	ug/L	40	38.7	38.1	97	95	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	19.7	18.9	98	94	80-120	4	20	
Naphthalene	ug/L	20	19.4	18.8	97	94	80-120	3	20	
o-Xylene	ug/L	20	19.6	19.3	98	97	80-120	1	20	
Toluene	ug/L	20	19.5	19.4	98	97	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX S	PIKE DUPLICA	ATE: 16612	07		1661208							
			MS	MSD								
	4	0166079001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
1,2,4-Trimethylbenzene	ug/L	216	200	200	409	415	96	99	11-200	2	20	
1,3,5-Trimethy/benzene	ug/L	<4.2	200	200	192	196	96	98	54-142	2	20	
Benzene	ug/L	827	200	200	992	972	83	73	66-140	2	20	
Ethylbenzene	ug/L	528	200	200	702	701	87	86	66-143	0	20	
m&p-Xylene	ug/L	183	400	400	554	560	93	94	60-141	1	20	
Methyl-tert-butyl ether	ug/L	<4.8	200	200	186	182	93	91	70-129	2	20	
Naphthalene	ug/L	10.1	200	200	188	195	89	93	64-129	4	20	
o-Xylene	ug/L	14.8	200	200	207	209	96	97	68-132	1	20	
Toluene	ug/L	27.2	200	200	220	218	97	96	76-130	1	20	

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Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40165904

Date: 03/22/2018 12:44 PM

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	ATE: 16612	07		1661208							
			MS	MSD								
		40166079001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
a,a,a-Trifluoroto/uene (S)	%	_ *************************************					100	101	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result,





QUALIFIERS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40165904

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

Date: 03/22/2018 12:44 PM

PASI-G Pace Analytical Services - Green Bay



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Date: 03/22/2018 12:44 PM

40165904

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40165904001	MW-1	WI MOD GRO	283467		
40165904002	MW-3	WI MOD GRO	283467		
40165904003	MW-4	WI MOD GRO	283467		
40165904004	PZ-1	WI MOD GRO	283467		
40165904005	MW-21	WI MOD GRO	283467		
40165904006	MW-20	WI MOD GRO	283467		
40165904007	MW-11	WI MOD GRO	283467		
40165904008	MW-10	WI MOD GRO	283467		
40165904009	MW-2	WI MOD GRO	283701		
40165904010	MW-5R	WI MOD GRO	283701		•
40165904011	TRIP BLANK	WI MOD GRO	283701		

Sample Preservation Receipt Form Client Name: Endower Project # Initial when Date/ All containers needing preservation have been checked and noted below: pyes pNo pN/A. Lab Std #ID of preservation (if pH adjusted): completed: Time: aOH+Zn Act pH ≥9 'OA Vlafs (>6mm) after adjusted Plastic Glass Vials Jars General 2SO4 pH <2 aOH pH ≥12 Volume NO3 pH <2 (mL) NGFU NPFU /G9M JGFU **4**G4S AG2S BG3U **BP1**U BP3U BP3N DG9A DG9T U69/ VG9H /G9D ZPLC 4G1U BP3S SP5T BP2Z Page Z Lab # 001 3 2.5 / 5 / 10 002 3 2.5 / 5 / 10 3 იი3 2.5 / 5 / 1.0 <u>nn4</u> 3 2.5/5/10 3 005 2.5 / 5 / 10 006 3 25/5/10 007 3 2.5 / 5 / 10 008 -3 2.5 / 5 / 10 009 2.5 / 5 / 10 010 z 2.5/5/10 011 2.5 / 5 / 10 **012** 2.5/5/10 013 2.5 / 5 / 10 014 2.5/5/10 015 2.5/5/10 016 2.5 / 5 / 10 017 2.5 / 5 / 10 018 2.5 / 5 / 10 019 2.5 / 5 / 10 020 2.5 / 5 / 10 Exceptions to preservation check/VOA, Colform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: Headspace in VOA Vials (>6mm): a Yes No aN/A *If yes look in headspace column AG1U 1 liter amber glass BP1II 1 liter plastic unpres 40 mL amber ascorbic **JGFU** 4 oz amber jar unpres DG9A AG1H 1 liter amber glass HCL BP2N DG9T 500 mL plastic HNO3 40 mL amber Na Thio WGFU 4 oz clear jar unpres AG4S 125 mL amber glass H2SO4 BP2Z VG9U 500 mL plastic NaOH, Znact 40 mL clear vial unpres WPFU 4 oz płastic jar unpres AG4U 120 mL amber glass unpres BP3U 250 mL plastic unpres VG9H 40 mL clear vial HCL AG5U 100 mL amber glass unpres BP3C 250 mL plastic NaOH VG9M 40 mL clear vial MeOH SP5T 120 mL plastic Na Thiosulfate AG2S 500 mL amber glass H2SO4 BP3N 250 mL plastic HNO3 VG9D 40 mL clear vial DI ZPLC ziploc bag

GN:

BP3S

250 mL plastic H2SO4

BG3U 250 mL clear glass unpres

	3
Pacel	\naiyticai [™]

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 31Jan2018

Document No.: F-GB-C-031-rev.06 Issuing Authority: Pace Green Bay Quality Office

1241 Bellevue Street, Green Bay, WI 54302

Sample Condition Upon Receipt Form (SCUR)

Client Name: Endcaval		# 1 PM as a s a	40165904
Courier: CS Logistics Fed Ex Spe	edee 「TUPS TWaltoo	·	
Tracking #:		40165904	
Custody Seal on Cooler/Box Present: Yes	s 17 no Seals intact: 1" \	ves 1" no	and a stage and an extension and the stage of the stage of the stage of the stage of the stage of the stage of
Custody Seal on Samples Present: Tyes	/		· · · · · · · · · · · · · · · · · · ·
Packing Material: T Bubble Wrap T Bu	ibble Bags T None T	Other	
Thermometer Used SR - NA	Type of Ice: Wet Blue	Dry None Samples	on ice, cooling process has begun
Cooler Temperature Uncorr: Per /Corr.		Anna	
Temp Blank Present: Tyes T/no	Biological Tissue	e ls Frozen:	Person examining contents:
Temp should be above freezing to 6°C. Biota Samples may be received at ≤ 0°C.			Initials:
Chain of Custody Present:	ZYes □No □N/A 1.		
Chain of Custody Filled Out:	Øyes □No □N/A 2.	······································	
Chain of Custody Relinquished:	ØYes □No □N/A 3.		
Sampler Name & Signature on COC:	ØYes □No □N/A 4.		
Samples Arrived within Hold Time:	DYes ONO ONA 5.		
- VOA Samples frozen upon receipt		Time:	
Short Hold Time Analysis (<72hr):	□Yes ØNo □N/A 6.		
Rush Turn Around Time Requested:	□Yes □No □N/A 7.		
Sufficient Volume: □Yes ØN≎ □N/A MS/M	SD Dyes ZNo DN/A 8.		
Correct Containers Used:	ØYes □No □N/A 9.		·
-Pace Containers Used:	ZYes DNo DN/A		
-Pace IR Containers Used:	☐Yes ☐No ☐N/A		
Containers Intact:	∕⊡Yes □No □N/A 10.		
Filtered volume received for Dissolved tests	□Yes □No □N/A 11.		· · · · · · · · · · · · · · · · · · ·
Sample Labels match COC:	ØYes □No □N/A 12.	<u> </u>	——————————————————————————————————————
-Includes date/time/ID/Analysis Matrix:	IN		
rip Blank Present:	ØYes □No □N/A 13.		···
	AYOS ONO ONIA		v
rip Blank Custody Seals Present Pace Trip Blank Lot # (if purchased): 399			
lient Notification/ Resolution:		If checked, see altac	ched form for additional comments 🔲
Person Contacted:	Date/Time:		
Comments/ Resolution:			
Project Manager Review:	all	Date:	3/15/18
<u> </u>	——————————————————————————————————————		

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	Level III (billable) C=		DW ≃ Drinkir GW = Ground SW ≈ Surfac	d Water s Water	Vees	رےا					Involce To Phone:	920-4	37-2997	
	your sample si	Soil Studge	WW = Waste WP = Wipe ECTION	e Water		(M)					CLIENT	1	DMMENTS	Profile #
ACE LAB#	CLIENT FIELD ID	DATE	TIME	MATRIX	STORY STORY						COMMENTS	(Lab U	ise Only)	<u> </u>
00	NV-1	3/12/18	(050	CM	T to									
202 223	MU-3		1110											
223	MW-4		1125											
004 005	PZ+1		1147											
005	MW-ZE		1205											
206	MW-2D		1230											
506 007	MW-11		1302									17	711	
208	MW-10		1315							-		70		
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Rush Tu	maround Time Requested - Prelim:	S Relin	inquished By:	1/2	1-44/1634ND	3	Date/Time:		Received	70-1	Dayle/Time/		PACE PI	oject No.
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Transmit Pre	elim Rush Results by (complete what you wa		inquished By	226			3/14/18	P /258	Die Cerve	Y XII	19 Date 3/14	81755	Parallel C	
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S	Samples on HOLD are subject to ecial pricing and release of Rability	Relia	inquished By:				Date/Time:	:	Received	Ву:	Date/⊓me:		Present / h	iot Present lot Intact

 $(x,y) \in \mathbb{R}^{n \times n}$, which is the second of $(x,y) \in \mathbb{R}^{n \times n}$.





April 02, 2018

Joe Ramcheck Endeavor Environmental Services, Inc. 2280-B Salscheider Court Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR

Pace Project No.: 40166445

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on March 26, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Steven Mleczko for Christopher Hyska

christopher.hyska@pacelabs.com

(920)469-2436 Project Manager

Enclosures







CERTIFICATIONS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0





SAMPLE SUMMARY

Project;

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40166445001	SUMP	Water	03/24/18 12:00	03/26/18 12:21
40166445002	POTABLE	Water	03/24/18 12:10	03/26/18 12:21
40166445003	TRIP BLANK	Water	03/24/18 00:00	03/26/18 12:21



SAMPLE ANALYTE COUNT

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40166445001	SUMP	WI MOD GRO	ALD	10	PASI-G
40166445002	POTABLE	WI MOD GRO	ALD	10	PASI-G
40166445003	TRIP BLANK	WI MOD GRO	ALD	10	PASI-G





PROJECT NARRATIVE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

Method:

WI MOD GRO Description: WIGRO GCV

Client:

Endeavor Environmental Services, Inc.

Date:

April 02, 2018

General Information:

3 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All taboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40166445

Date: 04/02/2018 01:14 PM

Sample: SUMP	Lab (D:	40166445001	Collecte	ed: 03/24/1	18 12:00	Received: 0	03/26/18 12:21 N	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	l Method: WI M	OD GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/30/18 10:41	71-43-2	
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		03/30/18 10:41	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/30/18 10:41	1634-04-4	
Naphthalene	<0.42	ug/L	1.0	0.42	1		03/30/18 10:41	91-20-3	
Toluene	< 0.39	ug/L	1.0	0.39	1		03/30/18 10:41	108-88-3	
1,2,4-Trimethy!benzene	<0.42	ug/L	1.0	0.42	1		03/30/18 10:41	95-63-6	
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/30/18 10:41	108-67-8	
m&p-Xylene	<0.80	ug/L	2.0	0,80	1		03/30/18 10:41		
o-Xylene	<0.45	ug/L	1.0	0,45	1		03/30/18 10:41		
Surrogates	10.70	ug/ L	1.0	0,40	•		00/00/10 10.41	00 47 0	
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		. 03/30/18 10:41	98-08-8	
Sample: POTABLE	Lab ID:	40166445002	Collecte	d: 03/24/1	8 12:10	Received: 03	3/26/18 12:21 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI M	DD GRO			-			
	•			0.40	4		02/20/49 44-07	74 49 0	
Benzene	<0.40	ug/L	1.0	0.40	1		03/30/18 11:07		
Ethylbenzene	<0.39	ug/L	1.0	0.39	1		03/30/18 11:07		
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/30/18 11:07		
Naphthalene	<0.42	ug/L	1.0	0.42	1		03/30/18 11:07		
Toluene	<0.39	ug/L	1.0	0,39	1		03/30/18 11:07		
1,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0,42	1		03/30/18 11:07		
1,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/30/18 11:07		
m&p-Xylene	<0.80	ug/L	2.0	0.80	1		03/30/18 11:07		
o-Xylene	<0.45	ug/L.	1.0	0.45	1		03/30/18 11:07	95-47-6	
Surrogates a,a,a-Trifluorotoluene (S)	101	%	80-120		1		03/30/18 11:07	98-08-8	
Sample: TRIP BLANK	Lab ID:	40166445003	Collected	l: 03/24/18	3 00:00	Received: 03	3/26/18 12:21 Ma	ıtrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical	Method: Wi MC	D GRO						
Benzene	<0.40	ug/L	1.0	0.40	1		03/30/18 14:14	71-43-2	
Ethylbenzene	< 0.39	ug/L	1.0	0.39	1		03/30/18 14:14	100-41-4	
Methyl-tert-butyl ether	<0.48	ug/L	1.0	0.48	1		03/30/18 14:14	1634-04-4	
laphthalene	<0.42	ug/L	1.0	0.42	1		03/30/18 14:14	91-20-3	
oluene	<0.39	ug/L	1.0	0.39	1		03/30/18 14:14		
,2,4-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/30/18 14:14		
,3,5-Trimethylbenzene	<0.42	ug/L	1.0	0.42	1		03/30/18 14:14		
	<0.80	ug/L ug/L	2.0	0.80	1		03/30/18 14:14		
n&p-Xylene							11.37.3[][[] 8 [] 21.17.1	[/MDI] / 1	





Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

Sample: TRIP BLANK	Lab ID:	40166445003	Collected	03/24/1	18 00:00	Received: 03	3/26/18 12:21	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	DD GRO					•	
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		1		03/30/18 14:1	14 98-08-8	

Page 7 of 13

Date: 04/02/2018 01:14 PM



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

QC Batch:

284722

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

40166445001, 40166445002, 40166445003

METHOD BLANK: 1666467

Matrix: Water

Date: 04/02/2018 01:14 PM

Associated Lab Samples: 40166445001, 40166445002, 40166445003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	03/30/18 08:59	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	03/30/18 08:59	
Benzene	ug/L	< 0.40	1.0	03/30/18 08:59	
Ethylbenzene	ug/L	<0.39	1.0	03/30/18 08:59	
m&p-Xylene	ug/L	<0.80	2,0	03/30/18 08:59	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	03/30/18 08:59	
Naphthalene	ug/L	<0.42	1.0	03/30/18 08:59	
o-Xylene	ug/L	<0.45	1.0	03/30/18 08:59	
Toluene	ug/L	< 0.39	1.0	03/30/18 08:59	
a,a,a-Trifluorotoluene (S)	%	102	80-120	03/30/18 08:59	

LABORATORY CONTROL SAMPL	E & LCSD: 1666468		16	66469						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.2	20.1	106	100	80-120	6	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	19.4	103	97	80-120	6	20	
Benzene	ug/L	20	20.6	19.5	103	98	80-120	5	20	
Ethylbenzene	ug/L	20	20.8	19.6	104	98	80-120	6	20	
m&p-Xylene	ug/L	40	41.2	38.9	103	97	80-120	6	20	
Methyl-tert-butyl ether	ug/L	20	20.2	19.4	101	97	80-120	4	20	
Naphthalene	ug/L	20	20.1	19.7	101	99	80-120	2	20	
o-Xylene	ug/L	20	20,9	19.9	104	99	80-120	5	20	
Toluene	ug/L	20	20.8	19.7	104	98	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%				102	102	80-120			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





QUALIFIERS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40166445

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

Date: 04/02/2018 01:14 PM

PASI-G Pace Analytical Services - Green Bay



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Date: 04/02/2018 01:14 PM

40166445

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40166445001	SUMP	WI MOD GRO	284722		
40166445002	POTABLE	WI MOD GRO	284722		
40166445003	TRIP BLANK	WI MOD GRO	284722		

Sample Preservation Receipt Form

Client Name: project # 40166445

Date/ Initial when completed: Time: All containers needing preservation have been checked and noted below; DYes DNo StUA Lab Std #ID of preservation (if pH adjusted): aOH+Zn Act pH ≥9 OA Vials (>6mm) Hafter adjusted Plastic Vials Glass Jars **General** 12SO4 pH s2 aOH pH ≥12 Volume NO3 pH s2 (mL)WGFU /G9M **NPFU** DG9A /G9U VG9H JGFU AG1H AG5U AG2S BG3U BP1U ВРЗС BP3S /G9D ZPLC AG4U BP2N **BP3N** DG9T \G10 BP2Z BP3U SP5T Pace S Lab# 25/5/10 3 001 002 2.5 / 5 / 10 003 2.5 / 5 / 10 004 2.5 / 5 / 10 005 2.5 / 5 / 10 006 2.5 / 5 / 10 007 2.5 / 5 / 10 กกล 2.5 / 5 / 10 009 2.5 / 5 / 10 010 2.5 / 5 / 10 011 2.5 / 5 / 10 012 2.5 / 5 / 10 013 2.5 / 5 / 10 014 2.5 / 5 / 10 015 2.5 / 5 / 10 016 2.5 / 5 / 10 017 2.5/5/10 018 2.5 / 5 / 10 019 2.5/5/10 020 2.5/5/10 Headspace in VOA Vials (>6mm) : □Yes NO □N/A *ff yes look in headspace column Exceptions to preservation check, VOA, doliform, TOC, TOX, TOH, O&G, WI DRO, Phenolics, Other. AG1U 1 liter amber glass BP1Ü 1 liter plastic unpres 40 mL amber ascorbic JGFU 4 oz amber jar unpres DG9A AG1H 1 liter amber glass HCL BP2N 500 mL plastic HNO3 DG9T WGFU 4 oz ciear jar unpres 40 mL amber Na Thio 125 mL amber glass H2SO4 WPFU AG4S **BP2Z** 500 mL plastic NaOH, Znact VG9U 40 mL clear vial unpres 4 oz plastic jar unpres AG4U 120 mL amber glass unpres BP3U 250 mL plastic unpres VG9H 40 mL clear vial HCL AG5U 100 mL amber glass unpres 250 mL plastic NaOH BP3C VG9M 40 mL clear vial MeOH SP5T 120 mL plastic Na Thiosulfate AG2S 500 mL amber glass H2SO4 BP3N 250 mL plastic HNO3 VG9D 40 mL clear vial DI ZPLC ziploc bag 250 mL clear glass unpres BP3S 250 mL plastic H2SO4 GN:

Pace Analytical 1241 Bellevue Street, Green Bay, WI 54302

Document Name: Sample Condition Upon Receipt (SCUR)

UR) Is

Document Revised: 31Jan2018

Document No.: F-GB-C-031-rev.06 Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

" 1		Project #:	
Client Name: Enclayor In	uronmenta	ˈ l.i0# : 4	0166445
Courier: CS Logistics Fed Ex Speed	dee FUPS FV	Valtoo name il imeti il	
Client Pace Other:	····		
Tracking #:		40166445	, , , , , , , , , , , , , , , , , , , ,
Custody Seal on Cooler/Box Present: yes			
Custody Seal on Samples Present: Tyes If		: I yes I no	
Packing Material: Bubble Wrap Bub	- · · · · · · · · · · · · · · · · · · ·	e Other	
Thermometer Used SR - NA Cooler Temperature Uncorr: /Corr:	Type of Ice: (Wet	Blue Dry None A Samples o	n Ice, cooling process has begun
Temp Blank Present: Tyes IXno	· · · · · · · · · · · · · · · · · · ·	Tissue is Frozen: Tyes Tno	Person examining contents:
Temp should be above freezing to 6°C.	•	, ,	Date: 3/2/01/4
Biota Samples may be received at ≤ 0°C.	A	<u> </u>	Initials:)U
Chain of Custody Present:	Diges Ono On/A		
Chain of Custody Filled Out:	Ø(Yes □No □N/A	<u> </u>	
Chain of Custody Relinquished:	XIYes DNo DN/A	3.	
Sampler Name & Signature on COC:	ÜYes □No □N/A	4.	
Samples Arrived within Hold Time:	Mayes □No □N/A	5.	
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes \$\frac{1}{2}No □N/A	6.	
Rush Turn Around Time Requested:	□Yes □No □N/A	7.	
Sufficient Volume: DYes Dato DN/A MS/MSI) ∐Yes MiNo □N/A	8.	
Correct Containers Used:	⊠es □No □N/A	9.	
-Pace Containers Used:	DA DNO DNA		
-Pace IR Containers Used:	□Yes □No LANA		
Containers Intact:	Dives One On/A	10.	
Filtered volume received for Dissolved tests	□Yes □No KM/A	11,	
Sample Labels match COC:	Myes □No □N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>`W</u>		
Trip Blank Present:	©es □No □N/A	13.	
Trip Blank Custody Seals Present	Des ONO ON/A		
Pace Trip Blank Lot # (if purchased): 394		·	
Client Notification/ Resolution:	Date/1	· ·	ed form for additional comments
Person Contacted: Comments/ Resolution:	Date/	HIIC.	
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Project Manager Review:	(\$	Date:	3/26/18
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Phone:	920)- <i>437-299</i>	77			AHC	<u>NI</u>	OF	CI	JST	ΓΟΙ	YC		1	Mail To Contact:	Joseph	Ramch	cat
Project Numb	er:)/(0/399, 40		A=	None B	HCL C=	12SO4	Preserva D=HNO3	tion Code E=DIV		-Methano	i G≂Na	он		Mail To Company:	Endence	or ENU.S	corces Inc
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August 20, 2018

Joe Ramcheck Endeavor Environmental Services, Inc. 2280-B Salscheider Court Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR

Pace Project No.: 40174052

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

Chushphu Hyska

christopher.hyska@pacelabs.com

(920)469-2436

Project Manager

Enclosures







CERTIFICATIONS

Project:

P101399,40 DA SWAMP BAR

Pace Project No.:

40174052

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Florida/NELAP Certification #: E87948 Illinois Certification #: 200050 Kentucky UST Certification #: 82 Louislana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064 North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001 Texas Certification #: T104704529-14-1 Wisconsin Certification #: 405132750 Wisconsin DATCP Certification #: 105-444 USDA Soil Permit #: P330-16-00157 Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project:

P101399.40 DA SWAMP BAR

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40174052001	MW-1	Water	08/14/18 14:51	08/15/18 09:22
40174052002	MW-3	Water	08/14/18 15:00	08/15/18 09:22
10174052003	MW-4	Water	08/14/18 15:25	08/15/18 09:22
10174052004	MW-11	Water	08/14/18 15:37	08/15/18 09:22
0174052005	PZ-1	Water	08/14/18 15:55	08/15/18 09:22
0174052006	MW-21	Water	08/14/18 16:19	08/15/18 09:22
0174052007	MW-20	Water	08/14/18 16:37	08/15/18 09:22
0174052008	MW-10	Water	08/14/18 16:50	08/15/18 09:22
0174052009	MW-2	Water	08/14/18 17:23	08/15/18 09:22
0174052010	MW-5R	Water	08/14/18 17:30	08/15/18 09:22
0174052011	TRIP BLANK	Water	08/14/18 00:00	08/15/18 09:22



SAMPLE ANALYTE COUNT

Project:

P101399.40 DA SWAMP BAR

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40174052001	MW-1	WI MOD GRO	PMS	10	PASI-G
40174052002	MW-3	WI MOD GRO	PMS	10	PASI-G
40174052003	MW-4	WI MOD GRO	PMS	10	PASI-G
40174052004	MW-11	WI MOD GRO	PMS	10	PASI-G
40174052005	PZ-1	WI MOD GRO	PMS	10	PASI-G
40174052006	MW-21	WI MOD GRO	PMS	10	PASI-G
40174052007	MW-20	WI MOD GRO	PMS	10	PASI-G
40174052008	MW-10	W! MOD GRO	PMS	10	PASI-G
40174052009	MW-2	WI MOD GRO	PMS	10	PASI-G
40174052010	MW-5R	WI MOD GRO	PMS	10	PASI-G
40174052011	TRIP BLANK	' WI MOD GRO	PMS	10	PASI-G



SUMMARY OF DETECTION

Project:

P101399.40 DA SWAMP BAR

Lab Sample ID	Client Sample ID					
Method	Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40174052007	MW-20					
WI MOD GRO	Methyl-tert-butyl ether	6.6	ug/L	1.1	08/17/18 14:48	
40174052008	MW-10					
WI MOD GRO	Benzene	855	ug/L	10.2	08/20/18 10:14	
WI MOD GRO	Ethylbenzene	1120	ug/L	11.0	08/20/18 10:14	
WI MOD GRO	Methyl-tert-butyl ether	12.1	ug/L	10.7	08/20/18 10:14	
WI MOD GRO	Naphthalene	418	ug/L	16,8	08/20/18 10:14	
WI MOD GRO	Toluene	746	ug/L	16.3	08/20/18 10:14	
WI MOD GRO	1,2,4-Trimethylbenzene	1110	ug/L	11.4	08/20/18 10:14	
WI MOD GRO	1,3,5-Trimethylbenzene	288	ug/L	10.9	08/20/18 10:14	
WI MOD GRO	m&p-Xylene	2470	ug/L	21.8	08/20/18 10:14	
WI MOD GRO	o-Xylene	1080	ug/L.	10.5	08/20/18 10:14	
10174052009	MW-2					
WI MOD GRO	Benzene	184	ug/L.	2.6	08/20/18 09:48	
WI MOD GRO	Ethylbenzene	24.7	ug/L	2.8	08/20/18 09:48	
WI MOD GRO	Methyi-tert-butyl ether	1.8J	ug/L	2.7	08/20/18 09:48	
MI MOD GRO	Naphthalene	5.2	ug/L	4.2	08/20/18 09:48	
WI MOD GRO	Toluene	108	ug/L	4.1	08/20/18 09:48	
WI MOD GRO	1,2,4-Trimethylbenzene	11.0	ug/L	2.8	08/20/18 09:48	
WI MOD GRO	1,3,5-Trimethylbenzene	2.1J	ug/L	2.7	08/20/18 09:48	
WI MOD GRO	m&p-Xylene	42,8	ug/L	5.4	08/20/18 09:48	
WI MOD GRO	o-Xylene	22.4	ug/L	2,6	08/20/18 09:48	
0174052010	MW-5R					
WI MOD GRO	Benzene	227	ug/L	40.8	08/17/18 18:38	
WI MOD GRO	Ethylbenzene	1420	ug/L	44.0	08/17/18 18:38	
VI MOD GRO	Naphthalene	618	ug/L	67.2	08/17/18 18:38	
VI MOD GRO	Toluene	1270	ug/L	65.2	08/17/18 18:38	
VI MOD GRO	1,2,4-Trimethylbenzene	2180	ug/L	45.6	08/17/18 18:38	
VI MOD GRO	1,3,5-Trimethylbenzene	566	ug/L	43.6	08/17/18 18:38	
VI MOD GRO	m&p-Xylene	4270	ug/L	87.2	08/17/18 18:38	
VI MOD GRO	o-Xylene	1240	ug/L	42.0	08/17/18 18:38	





PROJECT NARRATIVE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40174052

Method:

WI MOD GRO

Description: WIGRO GCV
Client: Endeavor Env

Endeavor Environmental Services, Inc.

Date:

August 20, 2018

General Information:

11 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40174052

Parameters WIGRO GCV Benzene	Results	Units							
Benzene		OTHE	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
	Analytical	Method: WI Me	OD GRO						
	<0.31	ug/L	1.0	0.31	1		08/16/18 16:3	1 71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		08/16/18 16:3	1 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		08/16/18 16:3	1 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		08/16/18 16:3	1 91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		08/16/18 16:3	1 108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		08/16/18 16:3	95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		08/16/18 16:3	1 108-67-8	
m&p-Хуlеле	< 0.66	ug/L	2.2	0.66	1		08/16/18 16:3	1 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		08/16/18 16:3	95-47-6	-
Surrogates									
a,a,a-Trifluorotoluene (S)	1 01	%	80-120		1		08/16/18 16:3	98-08-8	
Sample: MW-3	Lab ID:	40174052002	Collecter	d: 08/14/1	8 15:00	Received; 08	3/15/18 09:22 N	latrix: Water	
					٠.				
Parameters	Results	Units	LOQ -	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	OD GRO						
Benzene	<0.31	ug/L.	1.0	0.31	1		08/16/18 22:04	71-43-2	
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		08/16/18 22:04	100-41-4	
Methyl-tert-butyl ether	< 0.32	ug/L	1.1	0.32	1		08/16/18 22:04	1634-04-4	
Naphthalene	<0.51	ug/L	, 1.7	0.51	1		08/16/18 22:04	91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		08/16/18 22:04	108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	. 1		08/16/18 22:04	95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		08/16/18 22:04	108-67-8	
m&p-Xylene	< 0.66	ug/L	2.2	0.66	1		08/16/18 22:04	179601-23-1	
o-Xylene	< 0.32	ug/L	1.0	0.32	1		08/16/18 22:04	95-47-6	
Surrogates		Ū							
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/16/18 22:04	98-08-8	
Sample: MW-4	Lab ID:	40174052003	Collected	l: _. 08/14/18	3 15:25	Received: 08	/15/18 09:22 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical N	Method: WI MO	D GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		08/16/18 22:29	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		08/16/18 22:29		
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		08/16/18 22:29		
laphthalene	<0.51	ug/L	1.7	0.52	1		08/16/18 22:29		
oluene	<0.49	ug/L ug/L	1.6	0.49	1		08/16/18 22:29		
,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		08/16/18 22:29		
,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		08/16/18 22:29		
	<0.66	ug/L ug/L	2.2	0.66	1		08/16/18 22:29		
n&p-Xylene		with m							



Project:

P101399.40 DA SWAMP BAR

Date: 08/20/2018 03:35 PM

Pace Project No.: 40174052									
Sample: MW-4	Lab ID:	40174052003	Collecte	d: 08/1 4/1	8 15:25	Received: 08	B/15/18 09:22 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Surrogates a,a,a-Trifluorotoluene (S)	102	%	80-120		1		08/16/18 22:29	98-08-8	
Sample: MW-11	Lab ID:	40174052004	Collected	d: 08/14/1	8 15:37	Received: 08	3/15/18 09:22 M	atrix: Water	<u></u>
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene Toluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene m&p-Xylene o-Xylene Surrogates a,a,a-Trifluorotoluene (S) Sample: PZ-1 Parameters	<0.31 <0.33 <0.32 <0.51 <0.49 <0.34 <0.33 <0.66 <0.32	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	1,0 1.1 1.1 1.7 1.6 1.1 1.1 2.2 1.0 80-120	0.31 0.33 0.32 0.51 0.49 0.34 0.33 0.66 0.32	1 1 1 1 1 1 1 1 1 1 1	Received: 08	08/17/18 13:29 08/17/18 13:29 08/17/18 13:29 08/17/18 13:29 08/17/18 13:29 08/17/18 13:29 08/17/18 13:29	100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8 179601-23-1 95-47-6	Qual
WIGRO GCV	Anaivtical		n GRO	•	· · · · · · · · · · · · · · · · · · ·	•			
Benzene Ethylbenzene Methyl-tert-butyl ether Naphthalene foluene 1,2,4-Trimethylbenzene 1,3,5-Trimethylbenzene n&p-Xylene 5-Xylene Surrogates	<0.31 <0.33 <0.32 <0.51 <0.49 <0.34 <0.33 <0.66 <0.32	ug/L. ug/L. ug/L. ug/L ug/L. ug/L. ug/L ug/L	1.0 1.1 1.1 1.7 1.6 1.1 1.1 2.2	0.31 0.33 0.32 0.51 0.49 0.34 0.33 0.66 0.32	1 1 1 1 1 1 1 1		08/17/18 13:54 08/17/18 13:54 08/17/18 13:54 08/17/18 13:54 08/17/18 13:54 08/17/18 13:54 08/17/18 13:54 08/17/18 13:54	100-41-4 1634-04-4 91-20-3 108-88-3 95-63-6 108-67-8 179601-23-1	
ı,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 13:54	98-08-8	



Project:

Date: 08/20/2018 03:35 PM

P101399.40 DA SWAMP BAR

Sample: MW-21	Lab ID:	40174052006	Collecte	ed: 08/14/1	8 16:19	Received: 0	8/15/18 09:22	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		08/17/18 14:	20 71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		08/17/18 14::	20 100-41-4	
Methyl-tert-butyl ether	< 0.32	ug/L	1.1	0.32	1		08/17/18 14::	20 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		08/17/18 14::	20 91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		08/17/18 14::	20 108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		08/17/18 14::	20 95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L.	1 .1	0.33	1		08/17/18 14:	20 108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1			20 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		08/17/18 14:		
Surrogates	4.02	-9			•				
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 14:2	20 98-08-8	
Sample: MW-20	Lab ID:	40174052007	Collecte	d: 08/14/1	8 16:37	Received: 08	3/15/18 09:22	Matrix: Water	-
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method; WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		08/17/18 14:4	18 71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		08/17/18 14:4	l8 100-41-4 `	
Methyl-tert-butyl ether	6.6	ug/L	1.1	0.32	1			8 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	1		08/17/18 14:4	18 91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		08/17/18 14:4	8 108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1	•	08/17/18 14:4	8 95-63-6	
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		08/17/18 14:4	8 108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1			8 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		08/17/18 14:4		
Surrogates		~ \$, -	1.0		•				
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 14:4	8 98-08-8	
Sample: MW-10	Lab ID:	40174052008	Collected	l: 08/14/18	16:50	Received: 08	/15/18 09:22	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical N	/lethod: Wi MO	D GRO						
Benzene	855	ug/L	10.2	3.1	10		08/20/18 10:1	4 71-43-2	
Ethylbenzene	1120	ug/L	11.0	3.3	10		08/20/18 10:1		
iethyl-tert-butyl ether	12.1	ug/L	10.7	3.2	10		08/20/18 10:1		
laphthalene	418	ug/L	16.8	5,1	10		08/20/18 10:1		
oluene	746	ug/L	16.3	4.9	10		08/20/18 10:1		
,2,4-Trimethylbenzene	1110	ug/L	11.4	3.4	10		08/20/18 10:1		
,3,5-Trimethylbenzene	288	ug/L	10.9	3.3	10		08/20/18 10:1		
n&p-Xylene	2470	ug/L	21.8	6.6	10			4 179601-23-1	
		AN SHIP III	-1.0	0.0					



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Date: 08/20/2018 03:35 PM

Pace Project No.: 40174052								-	
Sample: MW-10	Lab ID:	40174052008	Collected	: 08/14/1	8 16:50	Received: 08	3/15/18 09:22 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	Method: WI MO	OD GRO						
Surrogates									
a,a,a-Trifluorotoluene (S)	97	%	80-120		10		08/20/18 10:14	98-08-8	
Sample: MW-2	Lab ID:	40174052009	Collected	: 08/14/1	8 17:23	Received: 08	/15/18 09:22 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO						
Benzene	184	ug/L	2.6	0.76	2.5		08/20/18 09:48	71-43-2	
Ethylbenzene	24.7	ug/L	2.8	0.82	2.5		08/20/18 09:48	100-41-4	
Methyl-tert-butyl ether	1.8J	ug/L	2.7	0.80	2.5		08/20/18 09:48	1634-04-4	
Naphthalene	5.2	ug/L	4.2	1.3	2.5		08/20/18 09:48	91-20-3	
Toluene	108	ug/L	4.1	1.2	2.5		08/20/18 09:48	108-88-3	
1,2,4-Trimethylbenzene	11.0	ug/L	2.8	0.86	2.5		08/20/18 09:48	95-63-6	
1,3,5-Trimethylbenzene	2.1J	ug/L	2.7	0.82	2.5		08/20/18 09:48	108-67-8	
m&p-Xylene	42.8	ug/L	5.4	1,6	2.5		08/20/18 09:48	179601-23-1	
o-Xylene	22.4	ug/L	2.6	0.79	2.5		08/20/18 09:48	95-47-6	
Surrogates		U -							
a,a,a-Trifluorotoluene (S)	99	%	80-120		2.5		08/20/18 09:48	98-08-8	
Sample: MW-5R	Lab ID:	40174052010	Collected:	08/14/18	3 17:30	Received: 08/	/15/18 09:22 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	D GRO						
Benzene	227	ug/L	40.8	12.2	40		08/17/18 18:38	71-43-2	
Ethylbenzene	1420	ug/L	44.0	13.2	40		08/17/18 18:38		
Methyl-tert-butyl ether	<12.8	ug/L	42.8	12.8	40	•	08/17/18 18:38		
Naphthalene	618	ug/L	67.2	20.2	40		08/17/18 18:38		
Toluene	1270	ug/L	65,2	19.6	40		08/17/18 18:38		
1,2,4-Trimethylbenzene	2180	ug/L	45.6	13.7	40		08/17/18 18:38		
3,5-Trimethylbenzene	566	ug/L	43.6	13.1	40		08/17/18 18:38		
n&p-Xylene	4270	ug/L	87,2	26.2	40		08/17/18 18:38		
-Xylene	1240	ug/L	42.0	12.6	40		08/17/18 18:38		
Surrogates	1240	ugr	74.V	12.0	1 0		50/11/10 10:00	00-41-0	
,a,a-Trifluorotoluene (S)	103	%	80-120		40		08/17/18 18:38	98-08-8	
iala illianistalanis (n)	, 30	70	00 120		10		00/11/10 10:00	00 00 0	



Project:

P101399.40 DA SWAMP BAR

Sample: TRIP BLANK	Lab ID:	Lab ID: 40174052011		Collected: 08/14/18 00:00			3/15/18 09:22 M	Matrix: Water		
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual	
WIGRO GCV	Analytical	Method: WI MC	DD GRO							
Benzene	<0.31	ug/L	1.0	0.31	1		08/17/18 16:56	71-43-2		
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		08/17/18 16:56	100-41-4		
Methyl-tert-butyl ether	< 0.32	ug/L	1.1	0.32	1		08/17/18 16:56	1634-04-4		
Naphthalene	<0.51	ug/L	1.7	0.51	1		08/17/18 16:56	91-20-3		
Toluene	<0.49	ug/L	1.6	0.49	1		08/17/18 16:56	108-88-3		
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		08/17/18 16:56	95-63-6		
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		08/17/18 16:56.	108-67-8		
m&p-Xylene	< 0.66	ug/L	2.2	0.66	1		08/17/18 16:56	179601-23-1		
o-Xylene <i>Surrogates</i>	<0.32	ug/L	1.0	0.32	1		08/17/18 16:56	95-47-6		
a,a,a-Trifluorotoluene (S)	101	%	80-120		1		08/17/18 16:56	98-08-8	HS	



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40174052

QC Batch:

297364

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

40174052001, 40174052002, 40174052003

METHOD BLANK: 1736530

Matrix: Water

Associated Lab Samples: 40174052001, 40174052002, 40174052003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	08/16/18 09:10	
1,3,5-Trimethy/benzene	ug/L	< 0.33	1.1	08/16/18 09:10	
Benzene	ug/L	<0.31	1.0	08/16/18 09:10	
Ethylbenzene	ug/L	< 0.33	1.1	08/16/18 09:10	
m&p-Xylene	ug/L	<0.66	2.2	08/16/18 09:10	
Methyl-tert-butyl ether	ug/L	< 0.32	1.1	08/16/18 09:10	
Naphthalene	ug/L	< 0.51	1.7	08/16/18 09:10	
o-Xylene	ug/L	< 0.32	1.0	08/16/18 09:10	
Toluene	ug/L	< 0.49	1.6	08/16/18 09:10	
a,a,a-Trifluorotoluene (S)	%	102	80-120	08/16/18 09:10	

LABORATORY CONTROL SAMPL	E & LCSD: 1736531		17	736532						
Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.5	21.0	102	105	80-120	2	20	***
1,3,5-Trimethylbenzene	ug/L	20	19.9	20.2	99	101	80-120	2	20	
Benzene	ug/L	20	20.2	20.3	101	101	80-120	1	20	
Ethylbenzene	ug/L	20	20.2	20.7	101	103	80-120	2	20	
m&p-Xylene	ug/L	40	40.2	40.1	101	100	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	21.0	20.4	105	102	80-120	3	20	
Naphthalene	ug/L	20	20.3	21.6	102	108	80-120	6	20	
o-Xylene	ug/L	20	20.5	20.4	102	102	80-120	0	20	
Toluene	ug/L	20	20.3	20.4	102	102	80-120	1	20	
a,a,a-Triffuorotoluene (S)	%				102	102	80-120			

MATRIX SPIKE & MATRIX S	PIKE DUPLICA	ATE: 17373	09		1737310							
Parameter	4 Units	0174039004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	22.1	22.4	110	112	51-160	1	20	
1,3,5-Trimethylbenzene	ug/L	< 0.33	20	20	21.5	21.7	107	108	56-146	1	20	
Benzene	ug/L	< 0.31	20	20	22.0	21.3	110	107	71-137	3	20	
Ethylbenzene	ug/L	< 0.33	20	20	22.3	22.1	111	111	71-141	1	20	
m&p-Xylene	ug/L	<0.66	40	40	43.9	43.9	110	110	66-141	0	20	
Methyl-tert-butyl ether	ug/L	< 0.32	20	20	20.9	20.6	105	103	80-120	2	20	
Naphthalene	ug/L	<0.51	20	20	20.7	22.0	104	1 10	67-138	6	20	
o-Xylene	ug/L	< 0.32	20	20	22.0	22.0	110	110	75-133	0	20	
Toluene	ug/L	< 0.49	20	20	22.3	21.9	112	110	76-134	2	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Parameter

QUALITY CONTROL DATA

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40174052

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:	1737309	

1737310

MSD MS 40174039004 Spike

Conc.

MS % Rec

101

MSD

% Rec Max Limits RPD RPD

Units

Result

Splke Conc.

MS Result

MSD Result

% Rec 102

80-120

Qual

a,a,a-Trifluorotoluene (S) %

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40174052

QC Batch:

297476

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

40174052004, 40174052005, 40174052006, 40174052007, 40174052008, 40174052009, 40174052010,

40174052011

METHOD BLANK: 1737342

Matrix: Water

Associated Lab Samples:

40174052004, 40174052005, 40174052006, 40174052007, 40174052008, 40174052009, 40174052010,

40174052011

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	08/17/18 11:46	
1,3,5-Trimethylbenzene	ug/L	< 0.33	1,1	08/17/18 11:46	
Benzene	ug/L	<0.31	1.0	08/17/18 11:46	
Ethylbenzene	ug/L	< 0.33	1,1	08/17/18 11:46	
m&p-Xylene	ug/L	<0.66	2.2	08/17/18 11:46	
Methyl-tert-butyl ether	ug/L	<0.32	1.1	08/17/18 11:46	
Naphthalene	ug/L	<0.51	1.7	08/17/18 11:46	
o-Xylene	ug/L.	< 0.32	1.0	08/17/18 11:46	
Toluene	ug/L	< 0.49	1.6	08/17/18 11:46	
a,a,a-Trifluorotoluene (S)	%	101	80-120	08/17/18 11:46	

LABORATORY CONTROL SAMPL	E & LCSD: 1737343		17	37344						
		Spike	LCS	LCSD	LCS	LCSD	% Rec		Max ·	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	21.3	21.3	107	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	20.6	20.5	103	103	80-120	0	20	
Benzene	ug/L	20	20.9	21.0	104	105	80-120	1	20	
Ethylbenzene	ug/L	20	21.1	20.9	106	. 105	80-120	1	20	
m&p-Xylene	ug/L.	40	42.0	41.5	105	104	80-120	1	20	
Methyl-tert-butyl ether	ug/L	20	21.2	20.8	106	104	80-120	2	20	
Naphthalene	ug/L	20	21.4	21.0	107	105	80-120	2	20	
o-Xylene	ug/L	20	21.2	21.0	106	105	80-120	1	20	
Toluene	ug/L	20	21.1	21.0	105	105	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

MATRIX SPIKE & MATRIX SI	PIKE DUPLICA	ATE: 17384	66		1738467							
•			MS	MSD								
	4	0174052004	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD ·	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	22,2	22.0	111	110	51-160	1	20	
1,3,5-Trimethylbenzene	ug/L	< 0.33	20	20	21.5	21.5	107	108	56-146	0	20	
Benzene	ug/L	< 0.31	20	20	21.8	21.9	109	110	71-137	0	20	
Ethylbenzene	ug/L	< 0.33	20	20	22.2	22.3	111	111	71-141	0	20	
m&p-Xylene	ug/L	<0.66	40	40	43.9	43,9	110	110	66-141	0	20	
Methyl-tert-butyl ether	ug/L	< 0.32	20	20	21.7	21.7	109	109	80-120	0	20	
Naphthalene	ug/L	<0.51	20	20	22.3	22.7	112	113	67-138	2	20	
o-Xylene	ug/L	< 0.32	20	20	22.0	22.0	110	110	75-133	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





Project:

P101399,40 DA SWAMP BAR

Pace Project No.:

40174052

MATRIX SPIKE & MATRIX SP	PIKE DUPLIC	CATE: 17384	66		1738467						
Parameter	Units	40174052004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD RPD	Qual
Toluene a,a,a-Trifluorotoluene (S)	ug/L %	<0.49	20	20	22.2	22.3	111 100	112 100	76-134 80-120		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40174052

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC institute.

LABORATORIES

PASI-G

Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

Date: 08/20/2018 03:35 PM

HS

Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40174052

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40174052001	MW-1	WI MOD GRO	297364		
40174052002	MW-3	WI MOD GRO	297364		
40174052003	MW-4	WI MOD GRO	297364		
40174052004	MW-11	WI MOD GRO	297476		
40174052005	PZ-1	WI MOD GRO	297476		
40174052006	MW-21	WI MOD GRO	297476		
40174052007	MW-20	WI MOD GRO	297476		
40174052008	MW-10	WI MOD GRO	297476		
40174052009	MW-2	WI MOD GRO	297476		
40174052010	MW-5R	WI MOD GRO	297476		
40174052011	TRIP BLANK	WI MOD GRO	297476		

(Please Print Cle	early)]							R MIDWEST		Pag	e 1 of l
Company Name: Endeavor Er	v. Services Inc			_/			1/1	MN: 6	12-607-170	0 WI: 920-469-2436	<i>O</i>	(of 2
Branch/Location: Green Bay	·] /		Pace		lytical*	- \	-f			401740	755 =
Project Contact: Joseph R		7 /			www.pa	celabs.com	\vee	//		Quote #:		Pag
Phone: (920) 437 -		1 '	C	HA	NI	OF CL	JSŤĊ	ρχ		Mail To Contact:	Joseph Ro	amcheck
Project Number: P101399.		A=Non				Preservation Code D=HNO3 E⇒DIW	<u>s</u>	U	aOH	Mail To Company:	7	Services, Inc
Project Name: Da Swam		H=Sod	lium Bisul	fate Solution	on	I=Sodium Thiosulfat	te J=Other			Mail To Address:	2280-B Sa	lscheider Ct
Project State: W	E	FILTER (YES/I		YUN	N					7	Green Bay, 1	NI 54313
Sampled By (Print): Nicholas	Urich	PRESERV (COD		Pick Letter	F					Invoice To Contact:	1	
Sampled By (Sign): Yucholos	Unich	·			,					Invoice To Company:		
PO #:	Regulatory Program:			nested	CAC					Invoice To Address:		
6.10.11.1		atrix Codes		Requ	₹					en en en en en en en en en en en en en e		
L_I EPA Level III (I	our sample A = Air B = Biota billable) C = Charcoal needed on O = Oil	OW = Drinking GW = Ground SW = Surface	i Water Water	29	+ naythalon		}			Invoice To Phone:		V
	ır sample SI = Sludge	WW = Waste WP = Wipe LLECTION	Water	Analys	PV0C+					CLIENT COMMENTS	LAB COMMI (Lab Use O	
10 MW-1	8/14/1		GW		X			†				
02 MW-	5	1500	1		文							
	†	1525			X							
20 4 MW-1	1	1537		F	X							
80 5 PZ-1		1555			X							
20 6 MM-3	-1	1619		32	X							
@ / MW-3	⊬O .	1637			X							
04 MW-1	0	1650			X							
809 MW-	7	1723			X							
010 MW-		1730	Ψ	93	X							
U1) Trip B	ank V		Trip		X							
+3/13/27							Р	SCEP	W=	Crates		
Rush Turnaround Time Reque	octod Prolims In					لـــلــــا	<u> </u>					PACE Project No.
(Rush TAT subject to approv Date Needed:	al/surcharge)	elinquished By: Who alinquished By:	, ,	hin	<u> </u>	Date/Time: 8/)S/i 8 Date/Time:	64 2-5	Receive	d By:	Date/Time:	1 0923	0174052
Transmit Prelim Rush Results by (comp		dinovink 9:-				Date/Time:		Passi	ad Ota	Date 7	Receip	tTemp= Roll °C
Email #1:	Ke	elinquished By:				Date (100)		Receive		Date/Time:		Sample Receipt pH
Telephone:	Re	elinquished By:		_		Date/Time:		Receive	d Sy:	Date/Time:		OK / Adjusted
Samples on HOLD are subject special pricing and release of it.	1	elinquished By:				Date/Time:		Receive	id By:	Date/Time:	Pı	resent / Not Present Intact / Not Intact
C019a(27Jun2006)	angst of a straightant	ng tek katangga - Telendari	· make policy	apaga dan s	98 NY 18419	akwagiwah ad Ipin (1955)	process and the co	een maare	er, a some organis	en en state en en en en en en en en en en en en en		6 06/14/06 ORIGINAL

Clie	ent	Nar	ne:			E	No	Jeon	بمد	/			Saı							ceir 140												1241 Be	alytical Services, LL ellevue Street, Suite Green Bay, WI 5430
	All co	ontain	ers ne	eding	prese	rvatio	n hav	e bee	n che		and no		elow:							preser	•	1	l adius	sted).					Initial comp			Date/ Time:	
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		-		Glass	;				ļ		Plasti	ic					Via	als				Jars	- Commence	Ge	nera	I	(>6mm)	1 <2	Act pH ≥	≥12	75	adjusted	Volume
Pace Lab#	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	вр10	BP2N	BP2Z	врзи	врзс	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	19dS	ZPLC	N GN	/OA Vials (>6mm)	42SO4 pH	NaOH+Zn Act pH	VaOH pH ≥12	HNO3 pH <2	oH after a	(mL)
001											_					<u> </u>		7	_	1							Ÿ		_				2.5/5/10
002		No	, ice		AL TA	Al Co	. i = 6	y							1834	3.7.97	1	3	75 P	G.	15.K.	清洁	S. 44		**gr. **je	香棉		A. C.	THE WAR	7.46		美沙龙	·2.5/·5//10
003																		3															2.5/5/10
004	***	200	12 34 62 4	***	K310-114 3 12-34			2 (%			新疆			in second	7000年 首種著作			3						2		対が数	2007 2007 2007		140			などの数	25/5/10
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006	190	146	1.34	機制	響無		100	海绵矿			16 N. W.		(1)			漢語		3	· 1000年			警察		营营		響響	*	30		317	Section 2		2:5/5/10
007					1							L	T					3															2.5 / 5 / 10
008	A Vig	(150K)	- jos 49	496	N.S.		100%	10.25	7. Exp.	2004	第 天线	N. O.	C. Cappe		(1)			3	430		極湯		服剪	學語	Service and			in the	10 PM		造的	新疆沙	2.5 / 5 //10
009			T			Γ_		1									L	3	T .				Ī									Ī	2.5/5/10
010	: 35: 3	: 1/2	71		ALC: N	2000	14.4	ta kil d	3.4		2 (M) (4 2/4)	190	機器			160		3	100					Sicre.				5.4	15/02	沙學 3		A SHAP	2.5 / 5 / 10
011													T			1/2	1518/	131						•			1						2.5 / 5 / 10
012		777	NA.	1000	7.0	9	35.	3.5	多數	987		8			HI	k-//.	The second	3	(65.09 t) (40.00	1 200	支配的	Car S	毛灣	MARKED AND AND AND AND AND AND AND AND AND AN	有力 370 克勒·特尔	8/50		987.13e	1	10%	5 3		2.5 / 5 / 10
013						<u> </u>						<u>l</u>				72													Ι				2.5 / 5 / 10
014	98.200 200		100		i j. (A WAY	E A	50054 9727			100				To the second				40.47		4.2									2.5/5/10
015										<u> </u>													Ţ		Ĺ	$\Gamma_{}$							2.5/5/10
016	4		20,70	1247				學多	F-18						22.		100				100		W. A		24		7				130	MEN.	2.5 / 5 / 10
017		<u> </u>				L				<u> </u>			<u> </u>				<u> </u>									$\Gamma_{}$			T		•		2.5/5/10
018	4.3	140	T w	1	0.5	ulo de				3.52	143.5	1		6.0		100	S SON	阿尔		3 (3)	23	學會	學達	3.48	200	100		*2	1		增加		25/3/10
019			I			_				<u> </u>			<u> </u>																				2.5 / 5 / 10
020			i i i gen			/	h	90.00			V10.7	100								1	250.00g			B	A.S.	LOWER TO		100 mg	P.4.	PICTOR	Ap.1000	1 传统	2:5/5//10
Exce	ption	s to pi	eserv	ation	check	: VO/	1,00	iform,	TOC,	тох	, ТОН	, O&G	WI E	DRO,	Pheno	olics, (Other:			Hea	dspac	e in V	OA Vi	als (>6	3mm)	: Kes	s ¤No	□N//	\ *If ye	es lool	k in hea	dspace	column
			ber g		(_		P1U		er pla:						G9A		nl. am	ber a			_		SFU .	<u> </u>			unpre:				1
			iber g		icl,	_		ł	P2N				HNO3				G9T			ber N				1	GFU			jar u	•	_			
AG4S	125	mLa	mber	glass	H2SO			В	P2Z	500	mL pl	astic l	NaOH,	Znac	t	1	G9U	40 n	nL cle	ar vial	unpr	es		W	PFU	ŧ.			unpre:	s			
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AG5U	1			_	•				P3C				NaOH				G9M			ar via		Н		1	P5T				Na Th	iosulfa	ete		1
AG25 BG3U			mber lear e					•	P3N P3S	•			HNO3 H2SO4	t		^v	G9D	40 ก	nL cle	ar via	DI			Z	PLC GN		oc ba	ğ					

Pace Analytical

Document Name: Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

1241 Bellevue Street, Green Bay, WI 54302 F-G

Document No.: F-GB-C-031-Rev.07 Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: Endavol Courier: CS Logistics Fed Ex F Speedee F UP Client Pace Other:	 's	Project # Valtco 	WO# : 4	0174052	ı
Packing Material: Bubble Wrap Bubble Bags : Thermometer Used SR - WA Type of lo Cooler Temperature Uncorr. La ICorr:	als intact Noo e Wet	yes I no		Person examining contents Date:	
Chain of Custody Present: Yes □N	o □n/A	1.	·	<u>&</u>	4
Chain of Custody Filled Out: ∑Yes □N	o □N/A	2.			
Chain of Custody Relinquished; ☐Yes ☐N	o □N/A	3.	*****		
Sampler Name & Signature on COC: ☑Yes ☐No	o □N/A	4.			
Samples Arrived within Hold Time: YDYes DN	a	5.			
- VOA Samples frozen upon receipt □Yes □No	<u> </u>	Date/Time:			
Short Hold Time Analysis (<72hr):	>	6.]
Rush Turn Around Time Requested:)	7.			
Sufficient Volume: For Analysis: ⊠Yes □No MS/MSD: □Yes □No	o □n/A	8.			
Correct Containers Used: Dyes DNo	>	9.			
-Pace Containers Used: ☐Yes ☐No	DN/A				
-Pace IR Containers Used: □Yes □No	NA CK				
Containers Intact: ∠ Yes □No)	10.		,	
Filtered volume received for Dissolved tests	√Z/N/A	11.			$\overline{}$
Sample Labels match COC; -Includes date/time/ID/Analysis Matrix:	□n/a	12. 00 7 - V 00.5 - "H	555" colket 1 1637" colket 1	thing 8/15/1	8/1
Trip Blank Present: ☑Yes □No	□n/A	13.			71
Trip Blank Custody Seals Present □Yes □No	D(N/A				
Pace Trip Blank Lot # (if purchased);			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:	_Date/T	"ina a r	checked, see attache	ed form for additional comments	
Project Manager Review:	M		Date:	5/15/18	



December 12, 2018

Joe Ramcheck Endeavor Environmental Services, Inc. 2280-B Salscheider Court Green Bay, WI 54313

RE: Project: P101399.40 DA SWAMP BAR

Pace Project No.: 40180361

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on December 03, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

(920)469-2436 Project Manager

Chushphu Hyska

Enclosures







CERTIFICATIONS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40180361

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302 Fiorida/NELAP Certification #: E87948 Illinols Certification #: 200050 Kentucky UST Certification #: 82 Louisiana Certification #: 04168 Minnesota Certification #: 055-999-334 New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0



SAMPLE SUMMARY

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40180361

Lab ID	Sample ID	Matrix	Date Collected	Date Received	
40180361001	MW-1	Water	11/30/18 15:25	12/03/18 07:55	
40180361002	MW-3	. Water	11/30/18 15:45	12/03/18 07:55	
40180361003	MW-4	Water	11/30/18 16:15	12/03/18 07:55	
40180361004	MW-11	Water	11/30/18 17:30	12/03/18 07:55	
40180361005	PZ-1	Water	11/30/18 16:38	12/03/18 07:55	
40180361006	MW-21	Water	11/30/18 17:15	12/03/18 07:55	
40180361007	MW-20	Water	11/30/18 16:50	12/03/18 07:55	
40180361008	MW-10	Water	11/30/18 17:50	12/03/18 07:55	
40180361009	MW-2	Water	11/30/18 15:55	12/03/18 07:55	•
40180361010	MW-5R	Water	11/30/18 18:20	12/03/18 07:55	
40180361011	TRIP BLANK	Water	11/30/18 00:00	12/03/18 07:55	



SAMPLE ANALYTE COUNT

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40180361

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40180361001	MW-1	WI MOD GRO	PMS	10	PASI-G
40180361002	MW-3	WI MOD GRO	PMS	10	PASI-G
40180361003	MW-4	WI MOD GRO	PMS	10	PASI-G
40180361004	MW-11	WI MOD GRO	PMS	10	PASI-G
40180361005	PZ-1	WI MOD GRO	PMS	10	PASI-G
10180361006	MW-21	WI MOD GRO	PMS	10	PASI-G
10180361007	MW-20	WI MOD GRO	PMS	10	PASI-G
0180361008	MW-10	WI MOD GRO	PMS	10	PASI-G
10180361009	MW-2	WI MOD GRO	PMS	. 10	PASI-G
10180361010	MW-5R	WI MOD GRO	PMS	.10	PASI-G
10180361011	TRIP BLANK	WI MOD GRO	PMS	10	PASI-G



SUMMARY OF DETECTION

Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40180361

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40180361007	MW-20					
WI MOD GRO	Methyl-tert-butyl ether	5.9	ug/L	1.1	12/05/18 13:49	
40180361008	MW-10					
WI MOD GRO	Benzene	704	ug/L	20.4	12/05/18 17:15	
WI MOD GRO	Ethylbenzene	1320	ug/L	22.0	12/05/18 17:15	
WI MOD GRO	Methyl-tert-butyl ether	12.8J	ug/L	21.4	12/05/18 17:15	
WI MOD GRO	Naphthalene	389	ug/L	33.6	12/05/18 17:15	
WI MOD GRO	Toluene	275	ug/L	32.6	12/05/18 17:15	
WI MOD GRO	1,2,4-Trimethylbenzene	1150	ug/L	22.8	12/05/18 17:15	
WI MOD GRO	1,3,5-Trimethylbenzene	315	ug/L	21.8	12/05/18 17:15	
WI MOD GRO	m&p-Xylene	3020	ug/L	43.6	12/05/18 17:15	
WI MOD GRO	o-Xylene	1270	ug/L	21.0	12/05/18 17:15	
10180361009	MW-2				-	
WI MOD GRO	Benzene	494	ug/L	5.1	12/06/18 12:57	
WI MOD GRO	Ethylbenzene	124	ug/L	5.5	12/06/18 12:57	
WI MOD GRO	Methyl-tert-butyl ether	2.9J	ug/L	5.4	12/06/18 12:57	
WI MOD GRO	Naphthalene	19.3	ug/L	8.4	12/06/18 12:57	
WI MOD GRO	Toluene	609	ug/L	8.2	12/06/18 12:57	
WI MOD GRO	1,2,4-Trimethylbenzene	56.4	ug/L	5.7	12/06/18 12:57	
WI MOD GRO	1,3,5-Trimethylbenzene	13.4	ug/L.	5.4	12/06/18 12:57	
WI MOD GRO	m&p-Xylene	260	ug/L	10.9	12/06/18 12:57	
WI MOD GRO	o-Xylene	123	ug/L	5.2	12/06/18 12:57	
0180361010	MW-5R	·		•	• •	
WI MOD GRO	Benzene	215	ug/L	51.0	12/05/18 16:23	
WI MOD GRO	Ethylbenzene	1760	ug/L	55.0	12/05/18 16:23	
WI MOD GRO	Naphthalene	605	ug/L	84.0	12/05/18 16:23	
WI MOD GRO	Toluene	2240	ug/L	81.5	12/05/18 16:23	
VI MOD GRO	1,2,4-Trimethylbenzene	2300	ug/L	57.0	12/05/18 16:23	
VI MOD GRO	1,3,5-Trimethylbenzene	644	ug/L	54.5	12/05/18 16:23	
WI MOD GRO	m&p-Xylene	5230	ug/L	109	12/05/18 16:23	
VI MOD GRO	o-Xylene	1710	ug/L	52.5	12/05/18 16:23	-





PROJECT NARRATIVE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40180361

Method:

WI MOD GRO Description: WIGRO GCV

Client:

Endeavor Environmental Services, Inc.

Date:

December 12, 2018

General Information:

11 samples were analyzed for WI MOD GRO. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.



Project:

P101399,40 DA SWAMP BAR

Pace Project No.: 40180361

Date: 12/12/2018 06:33 AM

Sample: MW-1	Lab iD:	40180361001	Collecte	ed: 11/30/1	8 15:25	Received: 1	2/03/18 07:55 N	/latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytical	Method: WI M	OD GRO					-, •	
Benzene	<0.31	ug/L	1.0	0.31	1		12/05/18 11:15	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/05/18 11:15	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/05/18 11:15	1634-04-4	
Naphthalene	< 0.51	ug/L	1.7	0.51	1		12/05/18 11:15	91-20-3	
Toluene	< 0.49	ug/L	1.6	0.49	1		12/05/18 11:15	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/05/18 11:15	95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1,1	0.33	1		12/05/18 11:15	74	
m&p-Xylene	< 0.66	ug/L	2,2	0.66	1		12/05/18 11:15	179601-23-1	
o-Xylene	< 0.32	ug/L	1.0	0.32	ì		12/05/18 11:15		
Surrogates					·		,,		
a,a,a-Trifluorotoluene (S)	109	%	80-120		1		12/05/18 11:15	98-08-8	
							· .		
Sample: MW-3	Lab ID:	40180361002	Collecte	d: 11/30/1	8 15:45	Received: 12	2/03/18 07:55 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua
WIGRO GCV	Analytical I	Method: WI MC	DD GRO						
Benzene	<0.31	ug/L	1.0	0.31	1		12/05/18 11:41	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/05/18 11:41		
Methyl-tert-butyl ether	<0.32	ug/L	1,1	0.32	1		12/05/18 11:41		
Naphthalene	<0.51	ug/L	1.7	0.51	1		12/05/18 11:41		
Toluene	<0.49	ug/L	1.6	0.49	1		12/05/18 11:41		
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/05/18 11:41		
1,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/05/18 11:41		
m&p-Xylene	< 0.66	ug/L	2.2	0.66	1		12/05/18 11:41		
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/05/18 11:41		
Surrogates	70.52	ug/L	1.0	0.02			12/03/16 11,41	90-41-0	
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 11:41	98_08_8	
igaja Timadrotoladilio (O)	100		00-120		ı		12,00,10 11.41	30-00-0	
iample: MW-4	Lah ID: 4	10180361003	Collected	d: 11/30/18	16:15	Received: 12	/03/18 07:55 M	atrix: Water	
			CONCOLDE	. 11700710		110001100. 12	100/100/100	uuix. Vyatai	
Parameters	Results	Units	LOQ	LOD	DF .	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical M	lethod: WI MO	D GRO						
enzene	<0.31	ug/L	1.0	0.31	1		12/05/18 12:06	71-43-2	
thylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 12:06	100-41-4	
lethyl-tert-butyl ether	< 0.32	ug/L	1.1	0.32	1		12/05/18 12:06	1634-04-4	
aphthalene	<0.51	ug/L	1.7	0.51	1		12/05/18 12:06	91-20-3	
oluene	<0.49	ug/L	1.6	0.49	1		12/05/18 12:06	108-88-3	
2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		12/05/18 12:06	95-63-6	
3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 12:06	108-67-8	
ı&p-Xylene	< 0.66	ug/L	2.2	0.66	1		12/05/18 12:06		
-Xylene	< 0.32	ug/L	1.0	0.32	1		12/05/18 12:06		

REPORT OF LABORATORY ANALYSIS

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Project:

P101399.40 DA SWAMP BAR

Pace Project No.: 40180361

Sample: MW-4	Lab ID:	40180361003	Collected	: 11/30/1	8 16:15	Received: 1	2/03/18 07:55 N	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI M	OD GRO						
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		1		12/05/18 12:0	6 98-08-8	
Sample: MW-11	Lab ID:	40180361004	Collected	: 11/30/1	8 17:30	Received: 1	2/03/18 07:55 N	Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO				•		. *-
Benzene	<0.31	ug/L	1.0	0.31	1.		12/05/18 12:32	2 71-43-2	
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 12:32	2 100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/05/18 12:32	2 1634-04-4	
Naphthalene	< 0.51	ug/L	1.7	0.51	1		12/05/18 12:32	2 91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/05/18 12:32	2 108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/05/18 12:32	2 95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 12:32	2 108-67-8	
m&p-Xylene	<0.66	ug/L	2.2	0.66	1		12/05/18 12:32	2 179601-23-1	
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/05/18 12:32	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	108	% .	80-120		1		12/05/18 12:32	2 98-08-8	
Sample: PZ-1	Lab ID:	40180361005	Collected:	11/30/18	3 16:38	Received: 1	2/03/18 07:55 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
NIGRO GCV		Method: WI MO							
	•			0.04			10/05/40 40 50	74 40 0	
Benzene	<0.31	ug/L	1.0	0.31	1		12/05/18 12:58		
thylbenzene	<0.33	ug/L	1.1	0.33	1	•	12/05/18 12:58		
lethyl-tert-butyl ether	<0.32	ug/L	1.1 .	0.32	1		12/05/18 12:58		
laphthalene	<0.51	. ug/L	• 1.7	0.51	1		12/05/18 12:58	and the second second	
oluene	<0.49	ug/L	1.6	0.49	1		12/05/18 12:58		
,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/05/18 12:58		
,3,5-Trimethylbenzene	<0.33	ug/L	1.1	0.33	1		12/05/18 12:58		
n&p-Xylene	<0.66	ug/L.	2.2	0.66	1		12/05/18 12:58		
-Xylene	<0.32	ug/L.	1.0	0.32	1		12/05/18 12:58	95-47-6	
Surrogates	400	0/	00.400		1		40/05/40 40:50	00 00 0	
,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 12:58	90-00-0	



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Sample: MW-21	Lab ID:	40180361006	Collecte	ed: 11/30/1	8 17:15	Received: 12	2/03/18 07:55 N	/latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytica	Method: WI M	OD GRO						
Benzene	<0.31	ug/L	1.0	0.31	· 1		12/05/18 13:2:	3 71-43-2	
Ethylbenzene	<0.33	ug/L.	1.1	0.33	1		12/05/18 13:23	3 100-41-4	
Methyl-tert-butyl ether	< 0.32	ug/L	1.1	0.32	1		12/05/18 13:2:	3 1634-04-4	
Naphthalene	<0.51	ug/L	1.7	0.51	.1		12/05/18 13:2:	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/05/18 13:23	3 108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/05/18 13:23	95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 13:23	3 108-67-8	
m&p-Xylene	< 0.66	ug/L	2.2	0,66	1	•	12/05/18 13:23	179601-23-1	
o-Xylene	< 0.32	ug/L	1.0	0.32	1		12/05/18 13:23	95-47-6	
Surrogates	*	ū							
a,a,a-Trifluorotoluene (S)	108	%	80-120		1	·.	12/05/18 13:23	98-08-8	
Consider MM 00	Lab (D)	40400004007	0-114-	1. 44/00/4	0.40.50	D	100140 07:FF L		
Sample: MW-20	Lab ID:	40180361007	Collecte	d: 11/30/18 ·	8 16:50	Received: 12	7/03/18 U7:55 N	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	D GRO	•				•	
Benzene	<0.31	úg/L	1.0	0.31	. 1		12/05/18 13:49	71-43-2	
Ethylbenzene	<0.33	ug/L	1.1	0.33	1		12/05/18 13:49		
Methyl-tert-butyl ether	5.9	ug/L	1.1	0.32	1		12/05/18 13:49	1634-04-4	
Naphthalene	< 0.51	ug/L	1,7	0.51	1		12/05/18 13:49		
Toluene	< 0.49	ug/L	1.6	0.49	1		12/05/18 13:49	108-88-3	
1,2,4-Trimethylbenzene	<0.34	ug/L	1.1	0.34	1		12/05/18 13:49		
1,3,5-Trimethylbenzene	< 0.33	ug/L.	1.1	0.33	1		12/05/18 13:49		
n&p-Xylene	<0.66	ug/L	2.2	0.66	1		12/05/18 13:49		
o-Xylene	<0.32	ug/L	1.0	0.32	1		12/05/18 13:49		
Surrogates		3				4.4			
a,a,a-Trifluorotoluene (S)	108	%	80-120		1	+ + . · ·	12/05/18 13:49	98-08-8	
	100					• •			
		40400004000		1. 44/00/40	17.50	D	100/40 07 FF B4		
Sample: MW-10	Lab ID:	40180361008	Collected	11/30/18	3 17:50	Received: 12	/03/18 07:55 M	atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
VIGRO GCV	Analytical I	Method: WI MO	D GRO				•		
Benzene	704	ug/L	20.4	6.1	20	-	12/05/18 17:15	71-43-2	
thylbenzene	1320	ug/L	22.0	6.6	20		12/05/18 17:15		
Methyl-tert-butyl ether	12.8J	ug/L	21.4	6.4	20		12/05/18 17:15		
laphthalene	389	ug/L	33.6	10.1	20	•	12/05/18 17:15		
oluene	275	ug/L	32.6	9.8	20		12/05/18 17:15		
,2,4-Trimethylbenzene	1150	ug/L	22.8	6.8	20		12/05/18 17:15		
,3,5-Trimethylbenzene	315	ug/L	21.8	6.6	20		12/05/18 17:15		
n&p-Xylene	3020	ug/L	43.6						
IOD-VAIGHE	QUEU	uuru	40.0	13.1	20		12/05/18 17:15	179601 - 23-1	



Project:

P101399,40 DA SWAMP BAR

Page Project No.: 40180361

Pace Project No.: 40180361					_ ;				
Sample: MW-10	Lab ID:	40180361008	Collected	: 11/30/1	8 17:50	Received: 1	12/03/18 07:55 N	//atrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	DD GRO						
Surrogates									
a,a,a-Trifluorotoluene (S)	111	%	80-120		20		12/05/18 17:1	5 98-08-8	
Sample: MW-2	Lab ID:	40180361009	Collected	: 11/30/18	8 15:55	Received: 1	2/03/18 07:55 N	Matrix: Water	
January IIII A				, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0 10.00	1100017041		Take Trace	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MC	DD GRO					* •	
Benzene	494	ug/L	5.1	1.5	5		12/06/18 12:57	7 71-43-2	
Ethylbenzene	124	ug/L	5.5	1.6	5		12/06/18 12:57	7 100-41-4	
Methyl-tert-butyl ether	2.9J	ug/L	5.4	1.6	5	•	12/06/18 12:57	7 1634-04-4	
Naphthalene	19.3	ug/L	8.4	2,5	5		12/06/18 12:57	91-20-3	
Toluene	609	ug/L	8.2	2.4	5		12/06/18 12:57	7 108-88-3	
1,2,4-Trimethylbenzene	56.4	ug/L	5.7	1.7	5		12/06/18 12:57		-
1,3,5-Trimethylbenzene	13.4	ug/L	5.4	1.6	5		12/06/18 12:57		
m&p-Xylene	260	ug/L	10.9	3.3	5		12/06/18 12:57		
o-Xylene	123	ug/L	5.2	1.6	5	,	12/06/18 12:57		
Surrogates	120	ug/L	0.2		. ~	•	12.00110 12.01	00 11 0	
a,a,a-Trifluorotoluene (S)	105	%	80-120		5		12/06/18 12:57	98-08-8	
		10100001010	0 !! ! !			B 1: (4:	0/00/40 07 55		<u>.</u>
Sample: MW-5R	Lab ID:	40180361010	Collected:	11/30/18	3 18:20	Received: 1	2/03/18 07:55 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: WI MO	D GRO						
Benzene	215	ug/L	51,0	15.3	50		12/05/18 16:23	71-43-2	
Ethylbenzene	1760	ug/L	55.0	16.4	50		12/05/18 16:23		
Methyl-tert-butyl ether	<16.0	ug/L	53.5	16.0	- 50		12/05/18 16:23	1 1 6 6	
iaphthalene	605	ug/L	84.0	25.3	50	•	12/05/18 16:23	-	
oluene	2240	ug/L	81.5	24.4	50		12/05/18 16:23		
,2,4-Trimethylbenzene	2300	ug/L ug/L	57.0	17.1	50	•	12/05/18 16:23		
	644	ug/L ug/L	54.5	16.4	50 50		12/05/18 16:23		
l,3,5-Trimethylbenzene	5230	•	54.5 109	32.8	50 50		12/05/18 16:23		
n&p-Xylene		ug/L.							
-Xylene	1710	ug/L	52.5	15.8	50		12/05/18 16:23	90-47-6	
Surrogates ,a,a-Trifluorotoluene (S)	112	%	80-120		50		12/05/18 16:23	98-08-8	
gaja Timuototoluette (O)	114	70	JU-120		00		12/00/10 10:20	JD-00-D	



Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Date: 12/12/2018 06:33 AM

40180361

Sample: TRIP BLANK	Lab ID:	40180361011	Collected	: 11/30/18	3 00:00	Received: 12	2/03/18 07:55 M	latrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical	Method: Wi MC	DD GRO						
Benzene	< 0.31	ug/L	1.0	0.31	1		12/05/18 14:15	71-43-2	
Ethylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 14:15	100-41-4	
Methyl-tert-butyl ether	<0.32	ug/L	1.1	0.32	1		12/05/18 14:15	1634-04-4	
Naphthalene	<0.51	ug/L	. 1.7	0.51	1		12/05/18 14:15	91-20-3	
Toluene	<0.49	ug/L	1.6	0.49	1		12/05/18 14:15	108-88-3	
1,2,4-Trimethylbenzene	< 0.34	ug/L	1.1	0.34	1		12/05/18 14:15	95-63-6	
1,3,5-Trimethylbenzene	< 0.33	ug/L	1.1	0.33	1		12/05/18 14:15	108-67-8	
m&p-Xylene	< 0.66	ug/L	2.2	0.66	1		12/05/18 14:15	179601-23-1	
o-Xylene Surrogates	<0.32	ug/L	1.0	0.32	1	•	12/05/18 14:15	95-47-6	
a,a,a-Trifluorotoluene (S)	108	%	80-120		1		12/05/18 14:15	98-08-8	



QUALITY CONTROL DATA

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40180361

QC Batch:

308390

Analysis Method:

WI MOD GRO

QC Batch Method:

WI MOD GRO

Analysis Description:

WIGRO GCV Water

Associated Lab Samples:

40180361001, 40180361002, 40180361003, 40180361004, 40180361005, 40180361006, 40180361007,

40180361008, 40180361009, 40180361010, 40180361011

METHOD BLANK: 1801466

Matrix: Water

Associated Lab Samples:

40180361001, 40180361002, 40180361003, 40180361004, 40180361005, 40180361006, 40180361007, 4018007, 40180007, 4018007, 4018007, 4018007, 4018007, 4018007, 4018007, 40180007, 40180007, 4018007, 4018007, 40180007, 40180007, 40180007, 40180007, 40180007, 40180007, 40180007, 4

40180361008, 40180361009, 40180361010, 40180361011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.34	1.1	12/05/18 09:32	
1,3,5-Trimethylbenzene	ug/L	< 0.33	1.1	12/05/18 09:32	
Benzene	ug/L	<0.31	1.0	12/05/18 09:32	
Ethylbenzene	ug/L	<0.33	1.1	12/05/18 09:32	
m&p-Xylene	ug/L	< 0.66	2.2	12/05/18 09:32	
Methyl-tert-butyl ether	ug/L	< 0.32	1.1	12/05/18 09:32	
Naphthalene	ug/L	<0.51	1.7	12/05/18 09:32	
o-Xylene	ug/L	< 0.32	1.0	12/05/18 09:32	
Toluene	ug/L	< 0.49	1.6	12/05/18 09:32	
a,a,a-Trifluorotoluene (S)	%	107	80-120	12/05/18 09:32	

LABORATORY CONTROL SAMPL	E & LCSD: 1801467		18	301468	-					
	•	Spike	LCS	LCSD	LCS	LCSD	% Rec		Max	
Parameter	Units	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/L	20	20.6	20.4	103	102	80-120	<u> </u>	20	
1,3,5-Trimethylbenzene	ug/L	20	20.4	20.4	102	102	80-120	. 0	20	
Benzene	ug/L	20	20.6	20.4	103	102	80-120	1	20	
Ethylbenzene	ug/L	20	22.0	22.0	110	110	80-120	0	20	
m&p-Xylene	ug/L	40	43.0	42.9	108	107	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	20.1	20.2	101	101	80-120	0	20	
Naphthalene	ug/L.	20	18.5	18.7	93	93	80-120	1	20	
o-Xylene	ug/L	20	21.4	21.4	107	107	80-120	0	20	
Tolüene	ug/L	20	21.3	21.2	107	106	80-120	. 1	20	
a,a,a-Trifluorotoluene (S)	%				107	106	80-120			

MATRIX SPIKE & MATRIX SI	PIKE DUPLICA	NTE: 18018	24		1801825						,	
Parameter	4 Units	0180361001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec	RPD	Max RPD	Qual
1,2,4-Trimethylbenzene	ug/L	<0.34	20	20	17.4	19.4	87	97	51-160	10	20	
1,3,5-Trimethylbenzene	ug/L	< 0.33	20	20	15.7	18.6	79	93	56-146	17	20	
Benzene	ug/L	< 0.31	20	-20	21.4	21.8	107	109	71-137	2	20	
Ethylbenzene	ug/L	< 0.33	20	20	22.1	22.8	110	114	71-141	3	20	
m&p-Xyiene	ug/L	< 0.66	40	40	40.2	43.0	101	108	66-141	7	20	
Methyl-tert-butyl ether	ug/L	< 0.32	20	20	20.6	21.0	103	105	80-120	2	20	
Naphthalene	ug/L	<0.51	20	20	17.8	18,4	89	92	67-138	3	20	
o-Xylene	ug/L	< 0.32	20	20	20.2	21,6	101	108	75-133	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.





QUALITY CONTROL DATA

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Date: 12/12/2018 06:33 AM

40180361

MATRIX SPIKE & MATRIX SF	PIKE DUPLIC	ATE: 18018:	24		1801825							
Parameter	Units	40180361001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Toluene a,a,a-Trifluorotoluene (S)	ug/L %	<0,49	20	20	21.7	22.3	109 107	112 107	76-134 80-120	3	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

40180361

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TN! - The NELAC Institute.

LABORATORIES

Date: 12/12/2018 06:33 AM

PASI-G Pace Analytical Services - Green Bay



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

P101399.40 DA SWAMP BAR

Pace Project No.:

Date: 12/12/2018 06:33 AM

40180361

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytica Batch
40180361001	MW-1	WI MOD GRO	308390		
40180361002	MW-3	WI MOD GRO	308390		
40180361003	MW-4	WI MOD GRO	308390	•	
40180361004	MW-11 .	WI MOD GRO	308390		
40180361005	PZ-1	· WI MOD GRO	308390		
40180361006	MW-21	WI MOD GRO	308390		
10180361007	MW-20	WI MOD GRO	308390	•	
10180361008	MW-10	WI MOD GRO	308390	•	
1 0180361009	MW-2	WI MOD GRO	308390	•	
10180361010	MW-5R	WI MOD GRO	308390		*
10180361011	TRIP BLANK	WI MOD GRO	308390		

(P)	lease Print Clearly)				-					\		R MIDW				Page 1	of $\sqrt{\frac{2}{8}}$
Company Name:	Endeaux - Env. Sew	ZA	íc.	,	79 1	200	Ann	sketin	od ®	13	MN: 6	12-607-	1700	W1: 920-469-2436	11.	CASII	9 16 0
Branch/Location:	Green Ray			/-		-act		llytic ecelebs.c		4					40	180361	bag(
Project Contact:	Vosel Ranches	<u>k</u> _]							•				Quote #:			
Phone:	920-437-299	7_		1		:HA	VIN	OF	- CU	ISTO	DY			Mail To Contact:	1/0500	Ranches	k
Project Number:	2101399,40			A=None	1=5 e	HCL C=	H2SO4	*Preserv: D=HNO:	ation Codes 3 E≕DIWa		nol G=N	laOH		Mail To Company:	Ender	nor Envi	Sow. Tac
Project Name:	Da Swams B	2		H≒Sodi	um Bisuli	fate Soluti	ion	I=Sodiur	n Thiosulfate	J≃Other				Mail To Address:		-B Salsch	7 - 7
Project State:	WI			FILTER!		Ŷ/N	N									Bay WI	
Sampled By (Print):	 		PI	RESERV.		Pick Latter	B				1			Invoice To Contact:			
Sampled By (Sign):	11000	-		(-7					- -				Invoice To Company:			
PO #:		Regulati Prograi				1 3	w \$							Invoice To Address:			
Data Package Or	otions MS/MSD		Matrix C	Codes	_	Requested	17.18	2									
(billable) EPA Leve	On your sample	= Air = Biota	DW:	Water = Drinking		2	6/1						<u> </u>				
☐ EPA Leve	(billable) C	= Charcos = Oil = Soil	SW =	≃ Ground = Surface '≃ Waste \	Water	Analyses	123					}		Invoice To Phone:			
	your sample (s	i ≈ Siudge	COLLECTIO	=Wipe		Ę	24	VI V						CLIENT	1	OMMENTS	Profile #
PACE LAB#	CLIENT FIELD ID	DA.	ATE T	TIME	MATRIX		1	 	-		 			COMMENTS	(Lab	Use Only)	1
001	MW-/	130	2/18 15	525	ربن		\times		 		 -			PECKA U?C)		
202	mw-3		1 15	3/5			X,		} -}		 		-		/		
003	MW-4		16	>/5			LX				 	ļ	ļ <u>.</u>			· · · · · · · · · · · · · · · · · · ·	
004	MW-11	4		30			X	<u> </u>	 		 						
	PZ-/	11	6	38	\perp		$\lor $				<u> </u>						
	MW-2/		12	1/5			\angle	<u> </u>			<u> </u>						
	nw-20		16	50			\geq	1				<u></u>				<u> </u>	
008 /	NW-10		1	250			\geq	1			<u> </u>						
009 ,	mw-2		15	355	V		\geq	1									
010 1	mw-5R		18	20	<i>V</i>		$1\times$						<u> </u>				
011 -	The Blank	V			This	泛蓝	\mathbb{Z}	1									
						1											
													10				
	und Time Requested - Prelin		Relinquish		2	3//		D و مر	alerTinyle:	2/3/	Receive	d By:	W	Date/Time:	115	PACE Pro	-
	ubject to approval/surcharge te Needed:		Reinquish	hed By:		-			ate/Time:	253	Receive	d By:	_1/_	Date/Time:	4177	140 1803	.61
Transmit Prelim Rus	sh Results by (complete what you w	ant):	<u> </u>								<u> </u>					Receipt Temp =	201 %
Email #1: Email #2:			Retinquish	hed By:				D	ate/Time;		Receive	d By:		Đạte/Time:		Sample R	- •
Telephone:			Reiinquish	ned By:				D	ate/Time:		Receive	d By:		Date/Time:		OK/Ad	
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1	s on HULD are subject to icing and release of Rability		Relinquish	ieu dy:	-				ate/Time:		Lecave	u py:		Date/⊓me:		Intact / N	
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		<u> </u>		Glass	·				L		Plasti	IC					Via					Jars		Ge	enera		9<) s	A 52	1 Act	≥12	23	after adjusted	Volume
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005]	<u></u>					<u> </u>]			Ī			13															2.5/5/10
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015		1				1					T														1								2.5/5/10
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Exce	ptions	s to p	resen	/ation	check	. VO/	A, Sol) iform,	TOC,	, тох	, ТОН	, 0&0	, WI [DRO, I	Pheno	dics, (Other:			Head	dspac	e in V	OA VI	als (>	6mm)	: ¤Yes	S 246	Zn//	\ *If ye	es loci	c in hea	dspace	column
AG1L						<u> </u>			P1U		er pla:						G9A		nL am						GFU				unpre				7
AG1F					ICL			ı	P2N		mL pl						G9T		nL am					4	/GFU			rjar u					
AG4S	125	mL a	mber	glass	H2SC			В	P2Z		mL pl				t	V	G9U	40 г	nL cle	ar vial	unpr	es		N	/PFU	4 oz	plast	tic jar	unpre	s			_
AG4U									P3U	1	mL pi		•				G9H	1	nL cle										,				
i seen	1400							1 0	חסר	1250			NAON			1 1/4	2084	140 -	-l -l-	احتياما	I MAGO	L		1 6	DET	1120	mi n	lactic	No Th	iosulfa	to.		1

VG9D

40 mL clear vial DI

ziploc bag

ZPLC

GN:

BP3N

BP3S

250 mL plastic HNO3

250 mL plastic H2SO4

AG2S 500 mL amber glass H2SO4

BG3U 250 mL clear glass unpres

Pace Analytical"

1241 Bellevue Street, Green Bay, WI 54302

Document Name:
Sample Condition Upon Receipt (SCUR)

Document Revised: 25Apr2018

Document No.:

F-GB-C-031-Rev.07

Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

		Project #:	
Client Name: Endlavor En	V·	MO	#:40180361
Courier: CS Logistics Fed Ex Spee		Malton	
Client Pace Other:			
Tracking #:		4018	0361
Custody Seal on Cooler/Box Present: yes	No Seals intac	t: yes no	
Custody Seal on Samples Present: 🏳 yes 🏌		t 「yes 「no	
Packing Material: Bubble Wrap 🗔 Bub			
Thermometer Used SR - NIT	A '	Blue Dry None	Samples on ice, cooling process has begun
Cooler Temperature Uncorr: /Corr:		Tingue is Fromen.	T-no
Temp Blank Present: Tyes TXDb	Biological	Tissue is Frozen: yes	Person examining contents:
Temp should be above freezing to 6°C. Blota Samples may be received at ≤ 0°C.			Initials:
Chain of Custody Present:	XYés DNO DNA	11	
Chain of Custody Filled Out:	DEXes ONO ON	2.	
Chain of Custody Relinquished:	XYes □No □N/	3.	
Sampler Name & Signature on COC;	Erres DNo DN/	4.	
Samples Arrived within Hold Time:	XiYes □No	5.	
- VOA Samples frozen upon receipt	□Yes □No	Date/Time:	
Short Hold Time Analysis (<72hr):	□Yes Down	6.	
Rush Turn Around Time Requested:	□Yes □Ŵ	7.	
Sufficient Volume:		8.	
For Analysis: 🎾 es ☐ No MS/MSI	D: 🗆 Yes 🖾 🗘 🗆 N//		
Correct Containers Used:	⊠Yes □No	9.	
-Pace Containers Used:	□X⊗ □Nº □N/	,	
-Pace IR Containers Used:	□Yes □No □A		
Containers Intact:	DYYOS 🗆 NO	10.	
Filtered volume received for Dissolved tests	Dyes DNo DAI	11.	
Sample Labels match COC:	Yes QNo DNA	12.	
-Includes date/time/ID/Analysis Matrix:	(N		
rip Blank Present:	Tryes ONO ONA	13.	
rip Blank Custody Seals Present	Pres ONO ONA	}	
Pace Trip Blank Lot # (if purchased): 4U	\		
Client Notification/ Resolution: Person Contacted: Comments/ Resolution:	Date	If checked, Time:	see attached form for additional comments
Project Manager Review:	(DA		Date: 1218118



APPENDIX E

Indoor Air Sample Laboratory Analytical Reports



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 08, 2014

Mike Ricker Synergy Environmental Lab, LLC 1990 Prospect Court Appleton, WI 54914

Date Received : January 02, 2014

:

Description

Air Sample

BASEMENT

Sample ID

Collected By : Collection Date :

Joseph Ramcheck 12/27/13 15:54

Site ID : DA SWAMP

ESC Sample # : L676283-01

Project # : P101399.40

Parameter	Cas#	Mol Wg	ht RDL1 RDL2	ppbv	ug/m3	Method	Date	Dil.
Volatile Organics								
Acetone	67-64-1	58.1	1.25 3.00	4.9	12.	TO-15	01/06/14	1
Allyl chloride	107-05-1	76.53		< 0.20	< 0.63	TO-15	01/06/14	$\ddot{1}$
Benzene	71-43-2	78.1	0.200 0.640	0.49	1.6	TO-15	01/06/14	1
Benzyl Chloride	100-44-7	127	0.200 1.00	< 0.20	< 1.0	TO-15	01/06/14	1
Bromodichloromethane	75-27-4	164	0.200 1.30	< 0.20	< 1.3	TO-15	01/06/14	1 1
Bromoform	75-25-2	253	0.600 6.20	< '0.60	< 6.2	TO-15	01/06/14	ī
Bromomethane	74-83-9	94.9	0.200 0.780	< 0.20	< 0.78	TO-15	01/06/14	ī
1,3-Butadiene	106-99-0	54.1	2.00 4.40	< 2.0	< 4.4	TO-15	01/06/14	ī
Carbon disulfide	75-15-0	76.1	0.200 0.620	< 0.20	< 0.62	TO-15	01/06/14	ī
Carbon tetrachloride	56-23-5	154	0.200 1.30	< 0.20	< 1.3	TO-15	01/06/14	ī
Chlorobenzene	108-90-7	113	0.200 0.920	< 0.20	< 0.92	TO-15	01/06/14	ī
Chloroethane	75-00-3	64.5	0.200 0.530	< 0.20	< 0.53	TO-15	01/06/14	ī
Chloroform	67-66-3	119	0.200 0.970	< 0.20	< 0.97	TO-15	01/06/14	ī
Chloromethane	74-87-3	50.5	0.200 0.410	0.28	0.58	TO-15	01/06/14	1
2-Chlorotoluene	95-49-8	126	0.200 1.00	< 0.20	< 1.0	TO-15	01/06/14	ī
Cyclohexane	110-82-7	84.2	0.200 0.690	< 0.20	< 0.69	TO-15	01/06/14	1
Dibromochloromethane	124-48-1	208	0.200 1.70	< 0.20	< 1.7	TO-15	01/06/14	$\overline{1}$
1,2-Dibromoethane	106-93-4	188	0.200 1.50	< 0.20	< 1.5	TO-15	01/06/14	ī
1,2-Dichlorobenzene	95-50-1	147	0.200 1.20	< 0.20	< 1.2	TO-15	01/06/14	ĩ
1,3-Dichlorobenzene	541-73-1	147	0.200 1.20	< 0.20	< 1.2	TO-15	01/06/14	i
1,4-Dichlorobenzene	106-46-7	147	0.200 1.20	< 0.20	< 1.2	TO-15	01/06/14	$\overline{1}$
1,2-Dichloroethane	107-06-2	99	0.200 0.810	< 0.20	< 0.81	TO-15	01/06/14	$\dot{1}$
1,1-Dichloroethane	75-34-3	98	0.200 0.800	< 0.20	< 0.80	TO-15	01/06/14	ĩ
1,1-Dichloroethene	75-35-4	96.9	0.200 0.790	< 0.20	< 0.79	TO-15	01/06/14	ī
cis-1,2-Dichloroethene	156-59-2	96.9	0.200 0.790	< 0.20	< 0.79	TO-15	01/06/14	î
trans-1,2-Dichloroethene	156-60-5	96.9	0.200 0.790	< 0.20	< 0.79	TO-15	01/06/14	i
1,2-Dichloropropane	78-87-5	113	0.200 0.920	< 0.20	< 0.92	TO-15	01/06/14	1
cis-1,3-Dichloropropene	10061-01-5		0.200 0.910	< 0.20	< 0.91	TO-15	01/06/14	1
trans-1,3-Dichloropropene	10061-02-6		0.200 0.910	< 0.20	< 0.91	TO-15	01/06/14	1
1,4-Dioxane	123-91-1	88.1	0.200 0.720	< 0.20	< 0.72	TO-15	01/06/14	1
Ethanol	64-17-5	46.1	15.8 30.0	500	940	TO-15	01/07/14	25
Ethylbenzene	100-41-4	106	0.200 0.870	< 0.20	< 0.87	TO-15	01/06/14	1
4-Ethyltoluene	622-96-8	120	0.200 0.980	< 0.20	< 0.98	TO-15	01/06/14	ī
Trichlorofluoromethane	75-69-4	137.4	0.200 1.10	< 0.20	< 1.1	TO-15	01/06/14	ī
Dichlorodifluoromethane	75-71-8		0.200 0.990	2.3	11.	TO-15	01/06/14	ĩ
1,1,2-Trichlorotrifluoroethane	76-13-1	187.4	0.200 1.50	< 0.20	< 1.5	TO-15	01/06/14	ī
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200 1.40	< 0.20	< 1.4	TO-15	01/06/14	ī
Heptane	142-82-5	100	0.200 0.820	0.24	0.98	TO-15	01/06/14	1
Hexachloro-1,3-butadiene	87-68-3	261	0.630 6.70	< 0.63	< 6.7	TO-15	01/06/14	1
n-Hexane	110-54-3	86.2	0.200 0.710	0.32	1.1	TO-15	01/06/14	1
Isopropylbenzene	98-82-8	120.2	0.200 0.710	< 0.20	< 0.98	TO-15	01/06/14	1
Methylene Chloride	75-09-2	84.9	0.200 0.690	1.1	3.8	TO-15	01/06/14	1
Methyl Butyl Ketone	591-78-6	100	1.25 5.10	< 1.3	< 5.1	TO-15	01/06/14	1
	352	200	_,40 0.10			10 10	/ / 4 1	-

RDL1 = ppbv , RDL2 = ug/m3

Note:

Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.

Reported: 01/08/14 09:17 Printed: 01/08/14 09:17



YOUR LAB OF CHOICE

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1~800~767~5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

January 08, 2014

Mike Ricker Synergy Environmental Lab, LLC 1990 Prospect Court Appleton, WI 54914

January 02, 2014 Air Sample Date Received

Description

Sample ID

BASEMENT

Collected By : Collection Date :

Joseph Ramcheck 12/27/13 15:54

ESC Sample # : L676283-01

Site ID : DA SWAMP

Project #: P101399.40

Parameter	Cas#	Mol Wgh	t RDL1	RDL2	ppbv	ug/m3	Method	Date	Dil.
2-Butanone (MEK) 7	8-93-3	72.1	1.25	3.70	< 1.3	< 3.7	TO-15	01/06/14	1
4-Methyl-2-pentanone (MIBK) 1	.08-10-1	100.1	1.25	5.10	< 1.3	< 5.1	TO-15	01/06/14	1
Methyl methacrylate 8	0-62-6	100.12	0.200	0.820	< 0.20	< 0.82	TO-15	01/06/14	1
MTBE 16	34-04-4	88.1	0.200	0.720	< 0.20	< 0.72	TO-15	01/06/14	1
Naphthalene 9	1-20-3	128	0.630	3.30	< 0.63	< 3.3	TO-15	01/06/14	1
2-Propanol 6	7-63-0	60.1	1.25	3.10	2.0	4.9	TO-15	01/06/14	1
Propene 1	15-07-1	42.1	0.400	0.690	< 0.40	< 0.69	TO-15	01/06/14	1
Styrene 1	00-42-5	104	0.200	0.850	< 0.20	< 0.85	TO-15	01/06/14	1
1,1,2,2-Tetrachloroethane 7	9-34-5	168	0.200	1.40	< 0.20	< 1.4	TO-15	01/06/14	1
Tetrachloroethylene 1	27-18-4	166	0.200	1.40	< 0.20	< 1.4	TO-15	01/06/14	1
Tetrahydrofuran 1	09-99-9	72.1	0.200	0,590	0,27	0.80	TO-15	01/06/14	1
Toluene 1	08-88-3	92.1	0.200	0.750	2.0	7.5	TO-15	01/06/14	1
1,2,4-Trichlorobenzene 1	20-82-1	181	0.630	4.70	< 0.63	< 4.7	TO-15	01/06/14	1.
1,1,1-Trichloroethane 7	1-55-6	133	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
1,1,2-Trichloroethane 7	9-00-5	133	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
Trichloroethylene 7	9-01-6	131	0.200	1.10	< 0.20	< 1.1	TO-15	01/06/14	1
1,2,4-Trimethylbenzene 9	5-63-6	120	0.200	0.980	0.34	1.7	TO-15	01/06/14	1
1,3,5-Trimethylbenzene 1	08-67-8	120	0.200	0.980	0.20	0.98	TO-15	01/06/14	1
2,2,4-Trimethylpentane 5	40-84-1	114.22	0.200	0.930	0.20	0.93	TO-15	01/06/14	1
Vinyl chloride 7	5-01-4	62.5	0.200	0.510	< 0.20	< 0.51	TO-15	01/06/14	1
Vinyl Bromide 5:	93-60-2	106.95	0.200	0.870	< 0.20	< 0.87	TO-15	01/06/14	1
Vinyl acetate 1	08-05-4	86.1	0.200	0.700	< 0.20	< 0.70	TO-15	01/06/14	1.
m&p-Xylene 133	30-20-7	106	0.400	1.70	1.6	6.9 .	TO-15	01/06/14	1
o-Xylene 95	5-47-6	106	0.200	0.870	0.20	0.87	TO-15	01/06/14	1
1,4-Bromofluorobenzene 4	60-00-4				94.6	% Rec.	TO-15	01/06/14	1

RDL1 = ppbv , RDL2 = ug/m3

Units are based on (STP) - Standard Temperature and Pressure
The reported analytical results relate only to the sample submitted.
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Reported: 01/08/14 09:17 Printed: 01/08/14 09:17

Summary of Remarks For Samples Printed 01/08/14 at 09:17:51

TSR Signing Reports: 341 R5 - Desired TAT

\$1.00 MINV added 6.17.10 - BV

Sample: L676283-01 Account: SYNENVWI Received: 01/02/14 09:00 Due Date: 01/13/14 00:00 RPT Date: 01/08/14 09:17



YOUR LAB OF CHOICE

Synergy Environmental Lab, LLC Mike Ricker 1990 Prospect Court

Appleton, WI 54914

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L676283

		The the control of the control of the		
Analyte	Result	Laboratory Blank Units & Rec	Limit	Batch Date Analyzed
1, 1, 1-Trichloroethane	< .2	f ppb A 12 His His His His His	en en grandet en grande	WG700423 01/06/14 12:4
1,1,2,2-Tetrachloroethane	< .2	ppb		WG700423 01/06/14 12:4
1,1,2-Trichloroethane	< .2	ppb		WG700423 01/06/14 12:4
1,1,2-Trichlorotrifluoroethane	< .2	ppb		WG700423 01/06/14 12:4
1,1-Dichloroethane	< .2	ppb		WG700423 01/06/14 12:4
1,1-Dichloroethene	< .2	ppb		WG700423 01/06/14 12:4
1,2,4-Trichlorobenzene	< .63	dad	e haye to Pinth	WG700423 01/06/14 12:4
1,2,4-Trimethylbenzene	< .2	ppb		WG700423 01/06/14 12:4
1,2-Dibromoethane	< .2 < .2	dqq	e e e e e e	WG700423 01/06/14 12:4
1,2-Dichlorobenzene 1,2-Dichloroethane	< .2	n ppb		WG700423 01/06/14 12:4
1,2-Dichloropropane	< .2	ppb		WG700423 01/06/14 12:4
1,2-Dichlorotetrafluoroethane	< .2	ppb	THE STATE OF THE	WG700423 01/06/14 12:4
1,3,5-Trimethylbenzene	< .2	ppb		WG700423 01/06/14 12:4
1,3-Butadiene	< 2	ppb		WG700423 01/06/14 12:4
1,3-Dichlorobenzene	< .2	ppb	 19.4 (#174-1947) 	WG700423 01/06/14 12:4
1,4-Dichlorobenzene	< .2	ppb		WG700423 01/06/14 12:4
1,4-Dioxane	< .2	ppb	The state of the s	WG700423 01/06/14 12:4
2,2,4-Trimethylpentane	< .2			WG700423 01/06/14 12:4
2-Butanone (MEK) 2-Chlorotoluene	< 1.25 < .2	ppb		WG700423 01/06/14 12:4 WG700423 01/06/14 12:4
z-chiolocoldene z-Propanal	< 1.25	ppb ppb	a comprehense	WG700423 01/06/14 12:4
4-Ethyltoluene	< .2	ppb	The second section of the second	WG700423 01/06/14 12:4
4-Methyl-2-pentanone (MIBK)	< 1.25	ppb		WG700423 01/06/14 12:43
Acetone	< 1.25	်စ်စုပ်		WG700423 01/06/14 12:4:
Allyl chloride	< .2	ppb		WG700423 01/06/14 12:4:
Benzene	< .2	ppb		WG700423 01/06/14 12:4:
Benzyl Chloride	< .2	gpb	The second of th	WG700423 01/06/14 12:4:
Bromodichloromethane	< ,2	ppb		WG700423 01/06/14 12:4:
Bromoform	< .6	ppb	The second second	WG700423 01/06/14 12:43
Bromomethane	< .2	pph		WG700423 01/06/14 12:4
Carbon disulfide Carbon tetrachloride	< .2 < .2	ppb		WG700423 01/06/14 12:43 WG700423 01/06/14 12:43
Chlorobenzene		ppb	a carparity of the account	WG700423 01/06/14 12:4:
Dibromochloromethane	< .2	ppb	Contains for the party and the	WG700423 01/06/14 12:43
Chloroethane	< .2	ppb		WG700423 01/06/14 12:43
hloroform	< .2	ppb		WG700423 01/06/14 12:43
Chloromethane	< .2	ppb		WG700423 01/06/14 12:43
is-1,2-Dichloroethene	< .2	ppb		WG700423 01/06/14 12:43
is-1,3-Dichloropropene	¢ .2	ppb		WG700423 01/06/14 12:43
Cyclohexane	< .2	ppb		WG700423 01/06/14 12:43
Dichlorodifluoromethane	< .2	ppb		WG700423 01/06/14 12:43
thylbenzene	< 13	ppb		WG700423 01/06/14 12:43
leptane	< .2	ppb		WG700423 01/06/14 12:43
exachloro-1,3-butadiene	< .63 < .2	ppb		WG700423 01/06/14 12:43 WG700423 01/06/14 12:43
	< 4	ppb ppb		WG700423 01/06/14 12:43
	< 1.25	ppp ppp		WG700423 01/06/14 12:43
4がまごうなごにはつぎ さいこうちゃくりょう コート・フィック・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	< .2	ppb		WG700423 01/06/14 12:43
	< .2	ppb		WG700423 01/06/14 12:43
	< .2	ppb		WG700423 01/06/14 12:43
and the second of the second o	< .2	pph		WG700423 01/06/14 12:43
aphthalene	< .63	ppb		WG700423 01/06/14 12:43
	< .2	ppb		WG700423 01/06/14 12:43
	< .4	ppb		WG700423 01/06/14 12:43
	< .2	ppb		WG700423 01/06/14 12:43
	< .2	ddd		WG700423 01/06/14 12:43
etrahydrofuran	< .2	ppb		WG700423 01/06/14 12:43
oluene	< .2	ppb	1	WG700423 01/06/14 12:43

ene < .2 ppb
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Synergy Environmental Lab, LLC Mike Ricker 1990 Prospect Court

Appleton, WI 54914

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L676283

Part Part			Laboratory Bla	ink.			
trans-1,3-Dichlozopopopopopopopopopopopopopopopopopopo	Analyte	Result			Limít	Batch Date	Analyzed
trans-1,3-Dichloropropene	trans-1,2-Dichloroethene	-< .2	daa	. Programme and the	er er er er er er er	WG700423 01/0	6/14 12:43
Trichlosofilioxymethane < 2		< .2		44 - 16 - 17 - 244		WG700423 01/0	6/14 12:43
Vinyly Brondee < 2							
Virtyl Bromide 2 ppb WG700423 01/06/14 12:43 1,4-Bromofliorobenzene 3 3 Rec. 93.60 60-140 WG700203 01/06/14 12:43 Ethanol 3 3 Ppb W 2000 60-140 WG700503 01/07/14 10:57 Analyte by Be 1 Laboratory Control Reset 4 Rec Limit Batt 1,1,2-Tetchilgrosthane ppb 3.75 3.63 96.8 70-130 WG700423 1,1,2-Tetchilgrosthane ppb 3.75 3.62 102. 70-130 WG700423 1,1,2-Tetchilgrosthane ppb 3.75 3.62 102. 70-130 WG700423 1,1,2-Tetchilgrosthane ppb 3.75 3.62 97.4 70-130 WG700423 1,1,2-Tetchilgrosthane ppb 3.75 3.62 97.4 70-130 WG700423 1,1,2-Tetchilgrosthane ppb 3.75 3.65 97.4 70-130 WG700423 1,2-Elbromoethane <td< td=""><th></th><td></td><td></td><td></td><td>Maria ett Maria ett in</td><td></td><td></td></td<>					Maria ett Maria ett in		
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1,4-Bronofluorobenzene			dea	and a subject to the	Andrew Programme Steeling		
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Analyte	make the state of	zii do	and the same of th		ing and the State of the State	ticanaras ai ta	1714 10.50
Analyte		. 2.303		89.80	60-140		
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pb 3.75 3.63 96.7 70-130 WG700423							
		7 E					

lbenzene ppb 3.75 3.84 103.

* Performance of this Analyte is outside of established criteria.

For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAS OF CHOICE

Synergy Environmental Lab, LLC Mike Ricker 1990 Prospect Court

Appleton, WI 54914

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814269

Est. 1970

Quality Assurance Report Level II

L676283

Analyte	Units	Laboratory Cor Known Val	trol Sample Result	% Rec	Limit	Batch
fleptane	ppb	3.75	3.94	105.	70-130	WG700423
Hexachloro-1,3-butadiene	ppb	3.75	3.47	92.5	55.7-144	WG700423
Isopropylbenzene	ppb	3.75	3.80	101.	70-130	WG700423
map-Xylene	ppb	7.5	7.44	99.2	70-130	WG700423
Methyl Butyl Ketone	ppb	3.75 3.75	3.53 3.85	94.2 103.	36.5-155 70-130	WG700423 WG700423
Methyl methacrylate MTBE	ppb ppb	3.75 3.75	3.78	101.	70-130	WG700423
Methylene Chloride	ppb	3.75	3.58	95.5	70-130	WG700423
n-Hexane	ppb	3.75	3.73	99.5	70-130	WG700423
Naphthalene	ppb	3,75	3.59	95.7	53.4-158	WG700423
o-Xylene	ppb	3.75	3.94	102.	70-130	WG700423
Propene	bbp	3.75	3.70	98.6	70-130	WG700423
Styrene	ppb:	3.75 3.75	3.82	102.	70-130 70-130	WG700423 WG700423
Tetrachloroethylene Tetrahydrofuran	ppb ppb	3.75	3.67 3.82	98.0 102.	70-130	WG700423
Toluene	ppb	3.75	3.86	103.	70-130	WG700423
trans-1,2-Dichloroethene	ppb	3.75	3.70	98.6	70-130	WG700423
trans-1,3-Dichloropropene	ppb	3.75	3.88	103.	70-130	WG700423
Trichloroethylene	dqq	3.75	3.73	99.5	70-130	WG700423
Trichlorofluoromethane	ppb	3.75	3.59	95.8	70-130	WG700423
Vinyl Bromide	dag	3.75 3.75	4.16 3.66	111. 97.6	70-130 70-130	WG700423
Vinyl chloride	ppp ppp	3.75	3.73	99.4	70-130	WG700423
1,4-Bromofluorobenzene	PPD	3173	0170	103.0	60-140	WG700423
일을 발판함으로 발표되는 Health 모든 20			Marin (graffika), interi			Ya. O. B
Ethanol	ppb	3.75	3.90	104.	52.6-145	WG700503
1,4-Bromofluorobenzene				101.0	60-140	WG700503
	Lake	water down to	Sample Duplicate			
*				rimik nen	T 3 3 E	D - 4 - 1-
Analyte	Onits Res		*Rec	Limit RPD	Limit	Batch
1,1,1-Trichloroethane	Units Res	ult Ref 9 3.63	%Rec 93.0	70-130 3.87	25	WG700423
1,1,1-Trichlorcethane 1,1,2,2-Tetrachlorcethane	onits Res	ult Ref 9 3.63 9 3.82	%Rec 93.0 98.0	70-130 3.87 70-130 3.34	25 25	NG700423 NG700423
1,1,1-Trichforcethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane	onits Res	ult Ref 9 3.63 9 3.82 0 3.81	%Red 93.0 98.0 96.0	70-130 3.87 70-130 3.34 70-130 5.52	25 25 25 25	MG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifluoroethane	Onits Res ppb 3.4 ppb 3.6 ppb 3.6 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65	%Red 93.0 98.0 96.0 93.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40	25 25 25 25 25	MG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorottifluoroethane 1,1,2-Trichlorottifluoroethane 1,1-Dichloroethane	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.6	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72	*Rec 93.0 98.0 96.0 93.0 96.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42	25 25 25 25 25 25	WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifiuoroethane 1,1-Dichloroethane 1,1-Dichloroethane	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75	\$Rec 93.0 98.0 96.0 93.0 96.0 95.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70	25 25 25 25 25 25 25	WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifiuoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-Trichloroethane	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59	*Rec 93.0 98.0 96.0 93.0 96.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42	25 25 25 25 25 25 25	WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.4 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76	\$Rec 93.0 98.0 96.0 93.0 96.0 95.0 96.0 95.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 59.7155 4.33 70-130 4.82 70-130 4.95	25 25 25 25 25 25 25 25 25 25	ÑG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2-M-Trichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichlorobenzene	Onits Res ppb 3,4 ppb 3,6 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5 ppb 3,5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 5 3.65	\$Rec 93.0 98.0 96.0 96.0 95.0 92.0 96.0 95.0 95.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 59.7-155 4.33 70-130 4.95 70-130 4.95 70-130 2.71	25 25 25 25 25 25 25 25 25 25 25	ÑG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
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1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethene 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloropenzene 1,2-Dichloropenzene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6	ult Ref 9 3.63 9 3.82 0 3.61 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 5 3.65 3 3.82 4 3.87	%Rec 93.0 96.0 96.0 93.0 96.0 95.0 95.0 96.0 95.0 95.0 97.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 79.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.53	25 25 25 25 25 25 25 25 25 25 25 25	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethyloenzene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.4	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 8 3.85 1 3.87	%Rec 93.0 96.0 96.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 4.70 59.7-155 4.33 70-130 4.95 70-130 4.95 70-130 6.53 70-130 6.53 70-130 6.53 70-130 4.91	25 25 25 25 25 25 25 25 25 25 25 25 25	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroetetrafluoroethane 1,2-Dichloroetetrafluoroethane 1,3,5-Trimethylbenzene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.4 ppb 3.4 ppb 3.4 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 6 3.65 3 3.87 1 3.87	%Rec 93.0 96.0 96.0 93.0 96.0 95.0 95.0 96.0 95.0 95.0 97.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 79.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.53	25 25 25 25 25 25 25 25 25 25 25 25	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-5-Trimethylbenzene 1,3-Butadiene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.4 ppb 3.4 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 5 3.65 9 3.82 1 3.87 3 3.67 3 3.67	\$Rec 93.0 98.0 96.0 95.0 96.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 4.70 59.7155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.00 70-130 4.91 70-130 4.91 70-130 4.93	25 25 25 25 25 25 25 25 25 25 25 25 25 2	ÑG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethyloenzene 1,2-Dibromoethane 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichloroethane 1,3-Dichlorobenzene 1,3-Dichlorobenzene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 8 3.76 3 3.82 1 3.87 9 3.67 3 3.87 9 3.67 3 3.87 9 3.67	\$Rec 93.0 98.0 96.0 93.8 96.0 92.0 96.0 95.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 94.0	70-130 3.87 70-130 3.87 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 59.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.53 70-130 4.91 70-130 4.92 70-130 3.14 70-130 3.14 70-130 3.14	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-A-Trichloroethane 1,2,4-Trichloroenzene 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroetetrafluoroethane 1,3-Dichloroetetrafluoroethane 1,3-Dichloroetetrafluoroethane 1,3-Dichloroetetrafluoroethane 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5	ult Ref 9 3,63 9 3,82 0 3,81 0 3,65 0 3,72 7 3,75 4 3,59 8 3,76 8 3,76 8 3,76 9 3,65 1 3,87 1 3,87 1 3,67 1 3,66 1 3,59	\$Rec 93.0 98.0 96.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 94.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 4.70 59.7155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.53 70-130 4.91 70-130 4.32 70-130 4.32 70-130 3.14 70-130 3.14 70-130 3.14 70-130 3.14 70-130 3.46 70-130 6.59	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorobenzene 1,2,4-Trimethylbenzene 1,2-Dichlorobenzene 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Trimethylbenzene 1,3-Dichloroethane 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dicklorobenzene 1,4-Trimethylpentane	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.3 ppb 3.3 ppb 3.5 ppb 3.5	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 5 3.65 9 3.82 1 3.87 3 3.73 3 3.87 3 3.67 1 3.66 1 3.67	*Rec 93.0 96.0 96.0 93.0 96.0 95.0 92.0 96.0 95.0 95.0 97.0 93.0 95.0 97.0 94.0 90.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 4.70 70-130 4.70 59.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 4.91 70-130 4.92 70-130 4.93 70-130 4.93 70-130 3.14 70-130 3.14 70-130 3.14 70-130 3.14 70-130 6.59 70-130 6.59 70-130 3.14	25 25 25 25 25 25 25 25 25 25 25 25 25 2	ÑG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifiuoroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trimethylbenzene 1,2,4-Trimethylbenzene 1,2-Dibnomoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Butadiene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Trimethylpentane 2-Butanone (MEK)	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.5 ppb	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 5 3.65 3 3.82 1 3.87 3 3.67 3 3.67 1 3.66 1 3.59 1 3.59 1 3.67	\$Rec 93.0 98.0 98.0 96.0 93.0 96.0 95.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 96.0 97.0 94.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 759.7-4.55 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 4.32 70-130 4.32 70-130 3.46 70-130 3.46 70-130 3.46 70-130 6.35 70-130 3.46 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Trichloroethane 1,2,4-Trimethyloenzene 1,2,4-Trimethyloenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Trimethylbenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,2,4-Trimethylpentane 2,2,4-Trimethylpentane 2-Butanne (MEK) 2-Chlorotoluene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.6 ppb 3.5 ppb	ult Ref 9 3.63 9 3.82 0 3.61 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 8 3.76 8 3.76 8 3.76 8 3.65 9 3.65 9 3.67 9 3.67 1 3.66 9 3.59 1 3.67 1 3.66 9 3.79	*Rec 93.0 98.0 98.0 96.0 93.0 96.0 95.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 90.0 90.0 90.0	70-130 3.87 70-130 3.87 70-130 3.34 70-130 4.40 70-130 3.42 70-130 4.70 75.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.53 70-130 4.91 70-130 6.53 70-130 6.53 70-130 6.55 70-130 3.69	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-Trichloroethane 1,2-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trimethyloenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Trimethylbenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Trimethylpentane 2-Butanone (MEK) 2-Chlorotoluene 2-Propano1	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 8 3.76 8 3.82 1 3.87 1 3.67 3 3.87 1 3.67 1 3.66 1 3.59 1 3.80 1 3.70 1 3.66 1 3.59 1 3.80 1 3.98	\$Rec 93.0 98.0 98.0 96.0 93.0 96.0 95.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 96.0 97.0 94.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 759.7-4.55 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 4.32 70-130 4.32 70-130 3.46 70-130 3.46 70-130 3.46 70-130 6.35 70-130 3.46 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32 70-130 4.32	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423 WG700423
1,1;1-Trichloroethane 1,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,2-A-Trichloroethane 1,2,4-Trichloroethane 1,2,4-Trichlorobenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroetrafluoroethane 1,3-S-Trimethylbenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,2,4-Trimethylpentane 2-Butanone (MEK) 2-Chlorotoluene 2-Propanol 2-Ethyltoluene	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.6 ppb 3.5 ppb	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 5 3.65 3 3.82 1 3.87 3 3.67	*Rec 93.0 98.0 96.0 93.0 96.0 95.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 90.0 94.0 90.0 94.0 97.0 97.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 4.70 70-130 4.70 59.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 4.91 70-130 4.32 70-130 4.32 70-130 3.14 70-130 3.14 70-130 3.14 70-130 7.27 70-130 7.27 70-130 7.27 70-130 3.46 70-130 7.27 70-130 7.27 70-130 7.27 70-130 7.27	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichlorotrifiuoroethane 1,1-Dichloroethane 1,2-Trichloroethane 1,2,4-Trimethyloenzene 1,2,4-Trimethyloenzene 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Trimethyloenzene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 1,4-Dichlorobenzene 2,2,4-Trimethylpentane 2-Butanone (MEK) 2-Chlorotoluene 2-Propanol 1-Ethyltoluene 1-Methyl-2-pentanone (MIBK) 1-Cetone	Onits Res ppb 3.4 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb	ult Ref 9 3.63 9 3.82 0 3.61 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 8 3.76 8 3.82 1 3.87 3 3.67 8 3.67 8 3.73 8 3.67 8 3.73 8 3.73 8 3.73 8 3.73 8 3.73 8 3.73 8 3.73 8 3.73 8 3.73 8 3.73 8 3.77 8 3.77 8 3.77 8 3.79 8 3.79 8 3.78 8 3.78 8 3.78 8 3.62 9 3.82	*Rec 93.0 98.0 98.0 96.0 93.0 96.0 95.0 95.0 95.0 95.0 97.0 93.0 95.0 97.0 95.0 97.0 95.0 97.0 95.0 97.0 96.0 97.0 97.0 98.0	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 759.7-155 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 6.53 70-130 6.53 70-130 6.53 70-130 6.53 70-130 6.53 70-130 70-130 6.59 70-130 70-130 70-130 6.59 70-130 3.14 70-130 3.69 70-130 3.69 62:2-137 0.750 70-130 3.74 70-130 3.69 62:2-137 0.750 70-130 3.74 70-130 3.69 62:2-137 0.750 70-130 3.74 70-130 3.74 70-130 3.74 70-130 3.69	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423
1,1,1-Trichloroethane 1,1,2,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1,2-Trichloroethane 1,1-Dichloroethane 1,1-Dichloroethane 1,2,4-Trichlorotenzene 1,2,4-Trichlorobenzene 1,2-Dibromoethane 1,2-Dibromoethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,3-Dichloroethane 1,3-Butadiene 1,3-Butadiene 1,3-Dichlorobenzene 1,4-Dichlorobene 1-Buthyl-2-pentanone (MIBK) 1-Buthyl-2-pentanone (MIBK) 1-Buthyl-2-pentanone (MIBK) 1-Buthyl-2-pentanone	Onits Res ppb 3.4 ppb 3.6 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.5 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb 3.6 ppb	ult Ref 9 3.63 9 3.82 0 3.81 0 3.65 0 3.72 7 3.75 4 3.59 8 3.76 8 3.76 8 3.76 8 3.76 8 3.87 9 3.67 9 3.67 9 3.67 1 3.66 7 3.59 1 3.70	*Rec 93.0 98.0 98.0 96.0 95.0 95.0 95.0 95.0 95.0 95.0 95.0 95	70-130 3.87 70-130 3.34 70-130 5.52 70-130 4.40 70-130 3.42 70-130 4.70 759.7-4.55 4.33 70-130 4.95 70-130 2.71 70-130 6.53 70-130 4.91 70-130 4.32 70-130 4.32 70-130 70-	25 25 25 25 25 25 25 25 25 25 25 25 25 2	MG700423 WG700423

ene ppb 3.63 3.83 97.0 70-130 !
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Synergy Environmental Lab, LLC Mike Ricker 1990 Prospect Court

Appleton, WI 54914

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Quality Assurance Report Level II

L676283

January 08, 2014

Analyte	Units	Laboratory Result	Control Ref	Sample Duplicate %Rec	Limit	RPD	Limit	Batch
Benzyl Chloride	ppb	3.54	3.69	94.0	70-130	4.01	25	WG700423
Bromodichloromethane	ppb	3.60	3.81	96.0	70-130	5.71	25	WG700423
Bromoform	ppb	3.58	3.73	96.0	70-130	3.94	2.5	WG700423
Bromomethane	ppb	3.52	3.68	94.0	70-130	4.20	2 5	WG700423
Carbon disulfide Carbon tetrachloride	ppb	3.52 3.53	3.68 3.67	94.0 94.0	70-130 70-130	4.37 3.87	25 25	WG700423 WG700423
Chlorobenzene	ppb dqq	3.57	3.75	95.0	70-130	5.14	25 25	WG700423
Dibromochloromethane	ppb	3.55	3.77	95.0	70-130	6.09	25	WG700423
Chloroethane	ppb	3.55	3.72	95.0	70-130	4.68	25	WG700423
Chloroform	ppb	3.56	3.69	95.0	70-130	3.78	25	WG700423
Chloromethane	ppb	3.64	3.79	97.0	70-130	4.07	25	WG700423
cis-1,2-Dichloroethene	ppb	3.59	3.76	96.0	70-130	4.64	25	WG700423
cls-1,3-Dichloropropene	dqq	3.61	3.82	96.0	70-130	5.75	25	WG700423
Cyclohexane Dichlorodifluoromethane	ppb ppb	3.51 3.46	3.69 3.63	94.0 92.0	70-130 70-130	4.86 4.82	25 25	WG700423 WG700423
Ethylbenzene	dqq	3.73	3.84	99.0	70-130	3.14	25	WG700423
Heptane	gad	3.71	3.94	99.0	70-130	5.96	25	WG700423
Hexachloro-1,3-butadiene	ppb	3.25	3.47	87.0	55.7-144	6.38	25	WG700423
Isopropylbenzene	ppb	3.68	3 80	98.0	70-130	3.24	25	WG700423
m&p-Xylene	dqq	7.17	7.44	96.0	70-130	3.60	25	WG700423
Methyl Butyl Ketone	dqq	3.34	3.53	89.0	36.5-155	5.43	25	WG700423
Methyl methacrylate MTBE	ppb	3.62	3.85	97.0 97.0	70-130 70-130	6.00 3.54	25 25	WG700423 WG700423
Methylene Chloride	ppb ppb	3.65 3.43	3.78 3.58	91.0	70-130	3.34 4.32	25 25	WG700423
n-Hexane	ppb	3.58	3 73	95.0	70-130		25	WG700423
Naphthalene	ppb	3.33	3.59	89.0	53.4-158	7.60	25	WG700423
o-Xylene	ppb	3.72	3.84	99.0	70-130	3.05	25	WG700423
Propene	dag	3.53	3.70	≥ 94.0	70-130	4.53	25	WG700423
Styrene	ppb	3.70	3.82	99.0	70-130	3.28	25	WG700423
Tetrachloroethylene	ppb	3.49	3.67	93.0	70-130	5.05	25	WG700423
Tetrahydrofuran Toluene	ppb	3.64 3.68	3.82	97.0 98.0	70-130 70-130	4.65 4.74	25 25	WG700423
trans-1,2-Dichloroethene	ppb dqq	3.58	3.80	95.0	70-130	3.47	25 25	WG700423
trans-1,3-Dichloropropene		3.61	3.88	96.0	70-130	7.11	25	WG700423
Trichloroethylene	ppb	3.49	3.73	93.0	70-130	6.62	25	WG700423
Trichlorofluoromethane	dqq	3.46	3.59	92.0	70-130	3.67	25	WG700423
Vinyl acetate	dqq	3.99	4.16	106.	70-130	4,23	25	WG700423
Vinyl Bromide		3.53	3.66	94.0	70-130	3,46	25	WG700423
Vinyl chloride	ppb	3.55	3.73	94.0	70-130	5.01	25	WG700423
1,4-Bromofluorobenzene	ing st			102.0	60-140	71.75 T. L. L. L.		WG700423
Ethanol	daa	4.09	3.90	109.	52.6-145	4.86	25	WG700503
1,4-Bromofinorobenzene	F-F	Hiji era		101.0	60-140			WG700503
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Batch number /Run number / Sample number cross reference

WG700423: R2874383: L676283-01 WG700503: R2874402: L676283-01

^{* *} Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'



YOUR LAB OF CHOICE

Synergy Environmental Lab, LLC Mike Ricker 1990 Prospect Court

Appleton, WI 54914

Quality Assurance Report Level II

L676283

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate — is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

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12065 Lebanon Rd. Mt. Juliet, TN 37122 (615) 758-5858 1-800-767-5859 Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

Mike Ricker Synergy Environmental Lab, LLC 1990 Prospect Court Appleton, WI 54914

Report Summary

Wednesday January 08, 2014

Report Number: L676283 Samples Received: 01/02/14 Client Project: P101399.40

Description: Air Sample

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Hawkins , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



25-Nov-2014

Joseph Ramcheck Endeavor Environmental Services, Inc. 2280-B Salscheider Court Green Bay, OH 54313

Tel:

(920) 437-2997

Fax:

(920) 437-3066

Re:

Da Swamp;Project#P101399.40

Work Order: 1411377

Dear Joseph,

ALS Environmental received 1 sample on 14-Nov-2014 10:13 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 13.

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

Sincerely,

Shawn Smythe

Electronically approved by: Shawn Smythe

Shawn Smythe Project Manager

> ADDRESS 4388 Glendale Milford Rd. Cincinnati, Ohio 45242- | PHONE (513) 733-5336 | FAX (513) 733-5347 ALS GROUP USA, CORP. Part of the ALS Group. An ALS Limited Company

ALS Environmental

Date: 25-Nov-14

Client:

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

Work Order:

1411377

Work Order Sample Summary

Lab Samp ID Client Sample ID

1411377-01 BASEMENT

Matrix

Air

Tag Number

11/13/2014 10:04 11/14/2014 10:13

Date: 25-Nov-14

Client:

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

Work Order:

1411377

Case Narrative

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested.

Results relate only to the items tested and are not blank corrected unless indicated.

QC sample results for this data met laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

Date: 25-Nov-14

Client:

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

Sample ID:

BASEMENT

I.ab

Lab ID: 1411377-01

Matrix: AIR

Work Order: 1411377

Collection Date: 11/13/2014 10:04 AM

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<u> </u>					Factor	
TO-15 BY GC/MS			ETO-1	5		Analyst: MRJ
1,1,1-Trichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1,2,2-Tetrachloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1,2-Trichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1-Dichloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,1-Dichloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2,4-Trichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2,4-Trimethylbenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dibromoethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dichlorcethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,2-Dichloropropane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,3,5-Trimethylbenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,3-Butadiene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,3-Dichlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
1,4-Dichlorobenzene	ND		0.50	ppbv	1 .	11/18/2014 04:14 PM
1,4-Dioxane	ND		1.0	ppbv	1	11/18/2014 04:14 PM
2-Butanone	1.5		0.50	ppbv	1	11/18/2014 04:14 PM
2-Hexanone	ND		0.50	ppbv	1	11/18/2014 04:14 PM
2-Propanol	1.6		1.0	ppbv	1	11/18/2014 04:14 PM
4-Ethyltoluene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
4-Methyl-2-pentanone	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Acetone	ND		1.0	ppbv	1	11/18/2014 04:14 PM
Benzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Benzyl chloride	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Bromodichloromethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Bromoform	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Bromomethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Carbon disulfide	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Carbon tetrachloride	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chlorobenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chloroethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chloroform	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Chloromethane	0.78		0.50	ppbv	1	11/18/2014 04:14 PM
cis-1,2-Dichloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
cis-1,3-Dichloropropene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Cumene	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Cyclohexane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Dibromochloromethane	ND		0.50	ppbv	1	11/18/2014 04:14 PM
Dichlorodifluoromethane	2.7		0.50	ppbv	1	11/18/2014 04:14 PM

Date: 25-Nov-14

Client:

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

Sample ID:

BASEMENT

Collection Date: 11/13/2014 10:04 AM

Work Order: 1411377

Lab ID: 1411377-01

Matrix: AIR

				Danaut							
Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed					
Ethyl acetate	1.9		0.50	ppbv	1	11/18/2014 04:14 PM					
Ethylbenzene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Freon 113	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Freon 114	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Heptane	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Hexachlorobutadiene	ND		0.50	ydqq	1	11/18/2014 04:14 PM					
Hexane	1.0		0.50	ppbv	1	11/18/2014 04:14 PM					
m,p-Xylene	0.72		0.50	ppbv	1	11/18/2014 04:14 PM					
Methylene chloride	2.5		0.50	ppbv	1	11/18/2014 04:14 PM					
MTBE	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Naphthalene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
o-Xylene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Propene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Styrene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Tetrachioroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Tetrahydrofuran	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
Toluene	5.1		0.50	ppbv	1	11/18/2014 04:14 PM					
trans-1,2-Dichloroethene	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
trans-1,3-Dichloropropene	ND		0,50	ppbv	1	11/18/2014 04:14 PM					
Trichloroethene	ND		0.20	ppbv	1	11/18/2014 04:14 PM					
Trichiorofluoromethane	ND		0.50	ppbv	. 1	11/18/2014 04:14 PM					
Vinyl acetate	0.93		0.50	ppbv	1	11/18/2014 04:14 PM					
Vinyl chloride	ND		0.50	ppbv	1	11/18/2014 04:14 PM					
TO-15 BY GC/MS			ETO-15			Analyst: MRJ					
1,1,1-Trichloroethane	ND	-	2.7	µg/m3	1	11/18/2014 04:14 PM					
1,1,2,2-Tetrachioroethane	ND		3.4	µg/m3	1	11/18/2014 04:14 PM					
1,1,2-Trichloroethane	ND		2.7	μg/m3	1	11/18/2014 04:14 PM					
1,1-Dichloroethane	ND		2.0	μg/m3	1	11/18/2014 04:14 PM					
1,1-Dichloroethene	ND		2.0	μg/m3	1	11/18/2014 04:14 PM					
1,2,4-Trichiorobenzene	ND		3.7	µg/m3	1	11/18/2014 04:14 PM					
1,2,4-Trimethylbenzene	ND		2.5	μg/m3	1	11/18/2014 04:14 PM					
1,2-Dibromoethane	ND		3.8	μg/m3	1	11/18/2014 04:14 PM					
1,2-Dichlorobenzene	ND		3,0	μg/m3	1	11/18/2014 04:14 PM					
1,2-Dichloroethane	ND		2.0	µg/m3	1	11/18/2014 04:14 PM					
1,2-Dichloropropane	ND		2.3	μg/m3	1	11/18/2014 04:14 PM					
1,3,5-Trimethylbenzene	ND		2.5	μg/m3	1	11/18/2014 04:14 PM					
1,3-Butadiene	ND		1.1	μg/m3	1	11/18/2014 04:14 PM					
1,3-Dichlorobenzene	ND		3.0	µg/m3	1	11/18/2014 04:14 PM					
1,4-Dichlorobenzene	ND		3.0	μg/m3	1	11/18/2014 04:14 PM					
1,4-Dioxane	ND		1,8	µg/m3	1	11/18/2014 04:14 PM					

Date: 25-Nov-14

Client:

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

Sample ID:

BASEMENT

Collection Date: 11/13/2014 10:04 AM

Work Order: 1411377

Lab ID: 1411377-01

Matrix: AIR

Conection Date: 11/13/2014 10.0	O-1 LTIAT	Marix: Alx								
Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed				
2-Butanone	4.4		1.5	μg/m3	1	11/18/2014 04:14 PM				
2-Hexanone	ND		2.0	µg/m3	1	11/18/2014 04:14 PM				
2-Propanol	3.9		2.5	μg/m3	1	11/18/2014 04:14 PM				
4-Ethyltoluene	ND		2.5	μg/m3	1	11/18/2014 04:14 PM				
4-Methyl-2-pentanone	ND		2.0	μg/m3	1	11/18/2014 04:14 PM				
Acetone	ND		2.4	μg/m3	1	11/18/2014 04:14 PM				
Benzene	ND		1.6	μg/m3	1	11/18/2014 04:14 PM				
Benzyl chloride	ND		2,6	μg/m3	1	11/18/2014 04:14 PM				
Bromodichloromethane	ND		3.4	µg/m3	1	11/18/2014 04:14 PM				
Bromoform	ND		5.2	μg/m3	1	11/18/2014 04:14 PM				
Bromomethane	ND		1.9	μg/m3	1	11/18/2014 04:14 PM				
Carbon disulfide	ND		1.6	μg/m3	1	11/18/2014 04:14 PM				
Carbon tetrachloride	ND		3.1	µg/m3	1	11/18/2014 04:14 PM				
Chlorobenzene	ND		2.3	µg/m3	1	11/18/2014 04:14 PM				
Chloroethane	ND		1.3	µg/m3	1	11/18/2014 04:14 PM				
Chloroform	ND		2.4	µg/m3	1	11/18/2014 04:14 PM				
Chloromethane	1.6		1.0	μg/m3	1	11/18/2014 04:14 PM				
cis-1,2-Dichloroethene	ND		2.0	µg/m3	1	11/18/2014 04:14 PM				
cis-1,3-Dichloropropene	ND		2.3	μg/m3	1	11/18/2014 04:14 PM				
Cumene	ND		2.5	μg/m3	1	11/18/2014 04:14 PM				
Cyclohexane	ND		1.7	µg/m3	1	11/18/2014 04:14 PM				
Dibromochloromethane	ND		4.3	µg/m3	1	11/18/2014 04:14 PM				
Dichlorodifluoromethane	13		2.5	μg/m3	1	11/18/2014 04:14 PM				
Ethyl acetate	6.9		1.8	μg/m3	1	11/18/2014 04:14 PM				
Ethylbenzene	ND		2.2	µg/m3	1	11/18/2014 04:14 PM				
Freon 113	ND		3.8	μg/m3	1	11/18/2014 04:14 PM				
Freon 114	ND		3.5	µg/m3	1	11/18/2014 04:14 PM				
Heptane	ND		2.0	μg/m3	1	11/18/2014 04:14 PM				
Hexachiorobutadiene	ND		5.3	µg/m3	1	11/18/2014 04:14 PM				
Hexane	3.6		1,8	μg/m3	1	11/18/2014 04:14 PM				
m,p-Xylene	3.1		2.2	μg/m3	1	11/18/2014 04:14 PM				
Methylene chloride	8.6		1.7	μg/m3	1	11/18/2014 04:14 PM				
MTBE	ND		1.8	µg/m3	1	11/18/2014 04:14 PM				
Naphthalene	ND		2.6	µg/m3	1	11/18/2014 04:14 PM				
o-Xylene	ND		2.2	μg/m3	1	11/18/2014 04:14 PM				
Propene	ND		0.86	μg/m3	1	11/18/2014 04:14 PM				
Styrene	ND		2.1	μg/m3	1	11/18/2014 04:14 PM				
Tetrachloroethene	ND		3.4	μg/m3	1	11/18/2014 04:14 PM				
Tetrahydrofuran	ND		1.5	μg/m3	1	11/18/2014 04:14 PM				
Toluene	19		1.9	μg/m3	1	11/18/2014 04:14 PM				

Date: 25-Nov-14

Client:

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

Sample ID:

BASEMENT

Collection Date: 11/13/2014 10:04 AM

Work Order: 1411377

Lab ID: 1411377-01

Matrix: AIR

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
trans-1,2-Dichloroethene	ND		2.0	μg/m3	1	11/18/2014 04:14 PM
trans-1,3-Dichloropropene	ND		2.3	µg/m3	1	11/18/2014 04:14 PM
Trichloroethene	ND		1.1	μg/m3	1	11/18/2014 04:14 PM
Trichlorofluoromethane	ND		2.8	µg/m3	1	11/18/2014 04:14 PM
Vinyl acetate	3.3		1.8	μg/m3	1	11/18/2014 04:14 PM
Vinyl chloride	ND		1.3	µg/m3	1	11/18/2014 04:14 PM

Date: 25-Nov-14

QC BATCH REPORT

Client:

Batch ID: R113968

Endeavor Environmental Services, Inc.

Work Order:

1411377

Project:

Da Swamp;Project#P101399.40

Instrument ID VMS3

Method: ETO-15

Datch ID. R113968 Instituti	SELLID AMOS		Method. ETO	10				
MBLK: Sample ID: B-R11396	58			Units: ppbv		Analysis	Date: 11/18/2014	11:18 AM
Client ID:	, , Run	ID: VMS3_	141118A	SeqNo: 95729	i0	Prep Date:	, die DF:	12.00000
			≠SPK Re		Control	RPD Ref	RPD	
Analyte	Result	PQL	SPK Val Value		Limit	Value	%RPD = Umit	Qual
1,1,1-Trichloroethane	ND	0.50						
1,1,2,2-Tetrachloroethane	ND	0.50						
1,1,2-Trichloroethane	ND	0.50						
1,1-Dichloroethane	ND	0.50						
1,1-Dichloroethene	ND	0.50						
1,2,4-Trichlorobenzene	ND	0.50						
1,2,4-Trimethylbenzene	ND	0,50						
1,2-Dibromoethane	ND	0.50						
1,2-Dichlorobenzene	ND	0.50						
1,2-Dichloroethane	ND	0.50				,		
1,2-Dichloropropane	ND	0.50						
1,3,5-Trimethylbenzene	ND	0.50						
1,3-Butadiene	ND	0.50						
1,3-Dichlorobenzene	ND	0.50						
1,4-Dichlorobenzene	ND	0.50						
1,4-Dioxane	ND	1.0						
2-Butanone	ND	0.50						
2-Hexanone	ND	0.50						
2-Propanol	ND	1.0						
4-Ethyltoluene	ND	0.50						
4-Methyl-2-pentanone	ND	0.50						
Acetone	ND	1.0						
Benzene	ND	0.50						
Benzyl chloride	ND	0.50						
3romodichloromethane	ND	0.50						
Bromoform	ND	0,50						
Bromomethane	ND	0.50						
Carbon disulfide	ND	0.50						
Carbon tetrachloride	ND	0.50						
Chlorobenzene	ND	0.50						
Chloroethane	ND	0.50						
Chloroform	ND	0.50						
Chloromethane	ND	0.50						
is-1,2-Dichloroethene	ND	0.50						
is-1,3-Dichloropropene	ND	0.50						
umene	ND	0.50						
yclohexane	ND	0.50						
ibromochloromethane	ND	0.50						
ichlorodifluoromethane	ND	0.50						
thyl acetate	ND	0.50						
thylbenzene	ND	0.50						

Client:

Endeavor Environmental Services, Inc.

Work Order:

1411377

Project:

Da Swamp;Project#P101399.40

QC BATCH REPORT

Batch ID: R113968	Instrument ID VMS3		Method:	ETO-15		
Freon 113	ND	0.50				
Freon 114	ND	0.50				
Heptane	ND	0.50				
Hexachlorobutadiene	ND	0.50				
Hexane	ND	0.50				
m,p-Xylene	ND	0.50				
Methylene chloride	ND	0.50				
MTBE	ND	0.50				
Naphthalene	ND	0.50				
o-Xylene	ND	0.50				
Propene	ND	0.50				
Styrene	ND	0.50				
Tetrachloroethene	ND	0.50				
Tetrahydrofuran	ND	0.50				
Toluene	ND	0.50				
trans-1,2-Dichloroethene	ND	0.50				
trans-1,3-Dichloropropene	ND	0.50				
Trichloroethene	ND	0.20				
Trichlorofluoromethane	ND	0.50				
Vinyl acetate	ND	0.50				
Vinyl chloride	ND	0.50				
Surr: Bromofluorobenzene	9.87	0	10	0	98.7	60-140

Client:

Endeavor Environmental Services, Inc.

Work Order:

1411377

Project:

Da Swamp;Project#P101399.40

Batch ID: R113968

Instrument ID VMS3

Method: ETO-15

LCS Sample ID: Ics-R1139	68			. Un	its: ppb\		Analysis Date: 11/18/2014 10:38 AM
Client D:	Run	D: VMS3_14	1118A 👑 .	. Seql	No: 9572	89 Pre	p Date: DF 1
	e de la Principa de la Comp		and the property of the second	PK Ref ∕alue			RPD Ref RPD Limit Qual
Analyte	Result	PQL:	SPK Val	value:	%REC	TO ENTITE OF	Value %RPD Limit Qual
1,1,1-Trichloroethane	10.41	0.50	10	0	104	58.8-163	0
1,1,2,2-Tetrachioroethane	9.84	0.50	10	0	98.4	60-140	0
1,1,2-Trichloroethane	10.59	0.50	10	0	106	60-140	0
f,1-Dichloroethane	9.97	0.50	10	0	99.7	60-140	0
1,1-Dichloroethene	9,58	0.50	10	0	95.8	60-140	0
1,2,4-Trichlorobenzene	10.8	0.50	10	0	108	49.3-150	0
,2,4-Trimethylbenzene	10.65	0.50	10	0	106	50.1-162	0
,2-Dibromoethane	11.16	0.50	10	0	112	60-140	0
,2-Dichlorobenzene	8.27	0.50	10	0	82.7	41.9-141	0
,2-Dichloroethane	8.62	0.50	10	0	86.2	60-140	0
,2-Dichloropropane	10.21	0.50	10	0	102	60-140	0
,3,5-Trimethylbenzene	10.47	0.50	10	0	105	60-140	0
,3-Butadiene	11.12	0.50	10	0	111	50.6-140	0
,3-Dichlorobenzene	10.61	0.50	10	0	106	60-140	0
,4-Dichlorobenzene	10.42	0.50	10	0	104	55.1-145	0
,4-Dioxane	11.64	1.0	10	0	116	60-140	0
-Butanone	11.78	0.50	10	0	118	60-140	0
-Hexanone	9.16	0.50	10	0	91.6	56.2-162	0
-Propanol	9.26	1.0	10	0	92.6	60-140	0
-Ethyltoluene	11.08	0.50	10	0	111	60-140	0
-Methyl-2-pentanone	8,67	0.50	10	0	86.7	60-140	0
cetone	8.77	1.0	10	0	87.7	60-140	0
enzene	11.29	0.50	10	0	113	60-140	0
enzyl chloride	12.67	0.50	10	0	127	31.9-174	0
romodichloromethane	9.65	0.50	10	0	96.5	60-140	0
romoform	11.15	0.50	10	0	112	60-140	0
romomethane	11.54	0.50	10	0	115	60-140	0
arbon disulfide	10.87	0.50	10	0	109	60-140	0
arbon tetrachloride	10.82	0.50	10	0	108	60-140	0
nlorobenzene	9.56	0.50	10	0	95.6	60-140	0
nloroethane	11.85	0.50	10	0	118	60-140	0
nloroform	10.05	0.50	10	0	100	60-140	0
Noromethane	11.48	0.50	10	0	115	60-140	0
:-1,2-Dichloroethene	9.53	0.50	10	0	95.3	60-140	0
:-1,3-Dichloropropene	11,83	0.50	10	0	118	60-140	0
imene	9.14	0,50	10	0	91.4	60-140	0
clohexane	11.97	0.50	10	0	120	60-140	0
promochloromethane	11.44	0.50	10	o	114	60-140	0
chlorodifluoromethane	9.55	0.50	10	0	95.5	60-140	0
nyl acetate	10.7	0.50	10	0	107	60-140	0
nylbenzene	9.97	0.50	10	0	99.7	60-140	0
eon 113	11.23	0.50	10	0	112	60-140	0

QC BATCH REPORT

Client:

Endeavor Environmental Services, Inc.

Work Order:

1411377

Project:

Da Swamp;Project#P101399.40

OC.	BAT	\mathbf{CH}	REP	ORT
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Batch ID: R113968	Instrument ID VMS3		Method:	ETO-15			
reon 114	10.08	0.50	10	0	101	60-140	0
leptane	8.96	0.50	10	0	89.6	60-140	0
lexachlorobutadiene	10.45	0.50	10	0	104	60-140	0
lexane	11.07	0.50	10	0	111	60-140	0
n,p-Xylene	19.43	0.50	20	0	97.2	60-140	0
fethylene chloride	8.55	0,50	10	0	85.5	60-140	. 0
ITBE	11.38	0.50	10	0	114	60.8-151	0
-Xylene	9.61	0.50	10	0	96.1	60-140	0
ropene	8.44	0.50	10	0	84.4	34.4-139	0
tyrene	11.32	0.50	10	0	113	60-140	0
trachloroethene	12.09	0.50	10	0	121	60-140	0
etrahydrofuran	9.87	0.50	10	0	98.7	60-140	0
oluene	11.45	0.50	10	0	114	60-140	0
ins-1,2-Dichloroethene	11.66	0.50	10	0	117	60-140	0
ans-1,3-Dichloropropene	10.66	0,50	10	0	107	60-140	0
ichloroethene	10.31	0.20	10	0	103	60-140	0
ichlorofluoromethane	8.65	0.50	10	0	86.5	60-140	0 .
nyl acetate	11.37	0.50	10	0	114	48.4-145	0
nyl chloride	11.71	0.50	10	0	117	60-140	0
Surr: Bromofluorobenzene	10.31	0	10	0	103	60-140	0

The following samples were analyzed in this batch:

1411377-01A

Date: 25-Nov-14

ALS Environmental

Client:

ppbv

Endeavor Environmental Services, Inc.

Project:

Da Swamp;Project#P101399.40

WorkOrder:

1411377

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited .
В	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
О	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
Acronym	Description
DUP	Method Duplicate
E	EPA Method
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SDL	Sample Detection Limit
SW	SW-846 Method
Units Reported	Description
μg/m3	

QF Page 1 of 1

Sample Receipt Checklist

Client Name:	ENDEAVOR-GREENBAY				Date/Time l	Received: 14	I-Nov-1	<u>14 10:13</u>		
Work Order:	1411377				Received b	λ: <u>π</u>	<u>1M</u>			
Checklist comple	Stephanie Harri Signature	ington	14-Nov-14 Date	<u>i</u>	Reviewed by:	Shawn Smy	the			25-Nov-14 Date
Matrices: Carrier name:	<u>FedEx</u>	·							·	
Shipping contain	er/cooler in good condition?		Yes	Y	No 🗌	Not Present				
Custody seals int	act on shipping container/cod	oler?	Yes		No 🗆	Not Present	V			
Custody seals int	act on sample bottles?		Yes		No 🗌	Not Present	V			
Chain of custody	present?		Yes	✓	No 🗌					
Chain of custody	signed when relinquished an	d received?	Yes	✓	No 🗌					
Chain of custody	agrees with sample labels?		Yes	V	No 🗌					
Samples in prope	r container/bottle?		Yes	¥	No 🗆					
Sample container	s intact?		Yes	V	No 🗌					
Sufficient sample	volume for indicated test?		Yes	✓	No 🗌					
All samples receiv	ed within holding time?		Yes (V	No 🗌					
Container/Temp B	Blank temperature in complian	nce?	Yes	✓	No 🗌					
Temperature(s)/T	hermometer(s):									
Cooler(s)/Kit(s):]			
Water - VOA vials	have zero headspace?		Yes		No 🗌 1	No VOA vials sub	mitted	\checkmark		
Water - pH accept	able upon receipt?		Yes [No 🗌 🕴					
pH adjusted? pH adjusted by:			Yes [No 🗌 N	√A 🗹				
Login Notes:										
			<u> </u>	==					<u> </u>	
Client Contacted:		Date Contacted:			Person C	ontacted:				
Contacted By:		Regarding:								
•										
Comments:										
CorrectiveAction:										
								SRC	: Page	1 of 1





April 12, 2018

Joe Ramcheck Endeavor Environmental 2280-B Salscheider Ct. Green Bay, WI 54313

RE: Project: P101399.40 DaSwamp Bar

Pace Project No.: 10424997

Dear Joe Ramcheck:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Carolynne That

Carolynne Trout carolynne.trout@pacelabs.com 1(612)607-6351 Project Manager

Enclosures







CERTIFICATIONS

Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

Minnesota Certification IDs

1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-

2485

A2LA Certification #: 2926.01 Alabama Certification #: 40770

Alaska Contaminated Sites Certification #: 17-009

Alaska DW Certification #: MN00064 Arizona Certification #: AZ0014 Arkansas Certification #: 88-0680 California Certification #: 2929 CNMI Saipan Certification #:MP0003 Colorado Certification #: MN00064 Connecticut Certification #: PH-0256

EPA Region 8+Wyoming DW Certification #: via MN 027-

053-137

Florida Certification #: E87605 Georgia Certification #: 959 Guam EPA Certification #: MN00064 Hawaii Certification #: MN00064 Idaho Certification #: MN00064

Illinois Certification #: 200011
Indiana Certification #: C-MN-01

Iowa Certification #: 368

Kansas Certification #: E-10167 Kentucky DW Certification #: 90062 Kentucky WW Certification #: 90062

Louisiana DEQ Certification #: 03086 Louisiana DW Certification #: MN00064

Maine Certification #; MN00064 Maryland Certification #; 322

Massachusetts Certification #: M-MN064

Michigan Certification #: 9909

Minnesota Certification #: 027-053-137 Mississippi Certification #: MN00064 Montana Certification #: CERT0092 Nebraska Certification #: NE-OS-18-06 Nevada Certification #: MN00064 New Hampshire Certification #: 2081 New Jersey Certification #: MN002

New York Certification #: 11647 North Carolina DW Certification #: 27700 North Carolina WW Certification #: 530 North Dakota Certification #: R-036 Ohio DW Certification #: 41244 Ohio VAP Certification #: CL101

Ohio VAP Certification #; CL10* Oklahoma Certification #; 9507

Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001

Oregon Secondary Certification #: MN200 Pennsylvania Certification #: 68-00563 Puerto Rico Certification #: MN00064 South Carolina Certification #:74003001 Tennessee Certification #: TN02818 Texas Certification #: T104704192 Utah Certification #: MN00064 Virginia Certification #: 460163

Washington Certification #: C486 West Virginia DW Certification #: 9952 C West Virginia DEP Certification #: 382

Wisconsin Certification #: 999407970





SAMPLE SUMMARY

Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10424997001	Basement	Air	03/24/18 11:40	03/27/18 10:50

REPORT OF LABORATORY ANALYSIS





SAMPLE ANALYTE COUNT

Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10424997001	Basement	TO-15	NCK	61	PASI-M



ANALYTICAL RESULTS

Project:

P101399.40 DaSwamp Bar

Pace Prolect No.:

10424997

Sample: Basement	Lab ID:	10424997001	Collecte	d: 03/24/1	18 11:40	Received: 03/27/18 10:50 Matrix: Air				
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qua	
TO15 MSV AIR	Analytical	Method: TO-15	;							
Acetone	12,3	ug/m3	3.5	2.2	1.44		04/11/18 21:27	67-64-1		
Benzene	0.44J	ug/m3	0.47	0.22	1.44		04/11/18 21:27	71-43-2		
Benzyl chloride	<0.34	ug/m3	3.8	0.34	1.44		04/11/18 21:27	100-44-7		
Bromodichloromethane	<0.51	ug/m3	2.0	0,51	1.44		04/11/18 21:27	75-27-4		
Bromoform	<1.0	ug/m3	7.6	1.0	1.44		04/11/18 21:27	75-25-2		
Bromomethane	<0.30	ug/m3	1.1	0.30	1.44		04/11/18 21:27	74-83-9		
f,3-Butadiene	<0.30	ug/m3	0,65	0.30	1.44		04/11/18 21:27	106-99-0		
2-Butanone (MEK)	3.6J	ug/m3	4.3	0.29	1.44		04/11/18 21:27	78-93-3		
Carbon disulfide	<0.26	ug/m3	0.91	0.26	1.44		04/11/18 21:27			
Carbon tetrachloride	<0.46	ug/m3	0.92	0.46	1.44		04/11/18 21:27			
Chlorobenzene	<0,26	ug/m3	1.3	0.26	1.44		04/11/18 21:27			
Chloroethane	<0.29	ug/m3	0.77	0,29	1.44		04/11/18 21:27			
Chloroform	<0.33	ug/m3	0.71	0.33	1.44		04/11/18 21:27			
Chloromethane	1.2	ug/m3	0.60	0.19	1.44		04/11/18 21:27			
Cyclohexane	<0.33	ug/m3	1.0	0.19	1.44		04/11/18 21:27			
Dibromochloromethane	<0.64	ug/m3 ug/m3	2.5	0.64	1.44		04/11/18 21:27			
,2-Dibromoethane (EDB)		ug/m3 ug/m3	2.2	0.48	1.44		04/11/18 21:27			
,2-Dichlorobenzene	<0.48 <0.47	_	1.8	0.45	1.44		04/11/18 21:27			
•		ug/m3								
,3-Dichlorobenzene	<0.67	ug/m3	1.8	0.67	1.44		04/11/18 21:27			
,4-Dichlorobenzene	<0.32	ug/m3	1.8	0.32	1.44		04/11/18 21:27			
Dichlorodifluoromethane	2.5	ug/m3	1.5	0.60	1.44		04/11/18 21:27			
,1-Dichloroethane	<0.31	ug/m3	1.2	0.31	1.44		04/11/18 21:27			
,2-Dichloroethane	<0.29	ug/m3	0.59	0.29	1.44		04/11/18 21:27			
,1-Dichloroethene	<0.34	ug/m3	1.2	0.34	1.44		04/11/18 21:27			
is-1,2-Dichloroethene	<0.49	ug/m3	1.2	0.49	1.44		04/11/18 21:27			
ans-1,2-Dichloroethene	<0.42	ug/m3	1.2	0.42	1.44		04/11/18 21:27			
,2-Dichloropropane	<0.44	ug/m3	1.4	0.44	1.44		04/11/18 21:27			
is-1,3-Dichloropropene	<0.35	ug/m3	1.3	0.35	1.44		04/11/18 21:27	10061-01-5		
ans-1,3-Dichloropropene	<0.60	ug/m3	1.3	0.60	1.44		04/11/18 21:27	10061-02-6		
Pichlorotetrafluoroethane	< 0.64	ug/m3	2.0	0.64	1.44		04/11/18 21:27	76-14-2		
thanol	1960	ug/m3	1.4	0.67	1.44		04/11/18 21:27	64-17-5	E.	
thyl acetate	6.2	ug/m3	1.1	0.28	1.44		04/11/18 21:27	14 1- 78-6		
thylbenzene	<0.25	ug/m3	1.3	0.25	1.44		04/11/18 21:27	100-41-4		
-Ethyltoluene	< 0.31	ug/m3	1.4	0.31	1.44		04/11/18 21:27	622-96-8		
-Heptane	< 0.30	ug/m3	1.2	0.30	1.44		04/11/18 21:27	142-82-5		
exachloro-1,3-butadiene	<1.3	ug/m3	3.1	1.3	1.44		04/11/18 21:27	87-68-3		
-Hexane	<0.48	ug/m3	1.0	0.48	1.44		04/11/18 21:27			
Hexanone	<0.88	ug/m3	6.0	0.88	1.44		04/11/18 21:27			
ethylene Chloride	<2.2	ug/m3	5.1	2.2	1.44		04/11/18 21:27			
Methyl-2-pentanone (MIBK)	<0.51	ug/m3	6,0	0.51	1.44		04/11/18 21:27			
ethyl-tert-butyl ether	< 0.96	ug/m3	5.3	0.96	1.44		04/11/18 21:27		-50	
aphthalene	<0.86	ug/m3	3.8	0.86	1.44		04/11/18 21:27			
Propanol	3,9	ug/m3	3.6	1.8	1.44		04/11/18 21:27			
	<0.23	ug/m3 ug/m3	0.50	0.23	1.44		04/11/18 21:27			
ropylene										
yrene	<0.24	ug/m3	1.2	0.24	1.44	÷	04/11/18 21:27			

REPORT OF LABORATORY ANALYSIS

1.0

<0.42

ug/m3

0.42

1.44

1,1,2,2-Tetrachloroethane

04/11/18 21:27 79-34-5

04/11/18 21:27 95-47-6



ANALYTICAL RESULTS

Project:

o-Xylene

Date: 04/12/2018 04:42 PM

P101399.40 DaSwamp Bar

<0.53

ug/m3

Pace Project No.:

10424997

Sample: Basement	Lab ID:	10424997001	Collecte	d: 03/24/1	8 11:40	Received: 03	3/27/18 10:50 M	atrix: Air	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
TO15 MSV AIR	Analytical	Method: TO-15							
Tetrachloroethene	<0.41	ug/m3	0.99	0.41	1.44		04/11/18 21:27	127-18-4	
Tetrahydrofuran	< 0.39	ug/m3	0.86	0.39	1.44		04/11/18 21:27	109-99-9	
Toluene	2.2	ug/m3	1.1	0.23	1.44		04/11/18 21:27	108-88-3	
1,2,4-Trichlorobenzene	<1.4	ug/m3	10.9	1.4	1.44		04/11/18 21:27	120-82-1	
1,1,1-Trichloroethane	< 0.49	ug/m3	1.6	0.49	1.44		04/11/18 21:27	71-55-6	
1,1,2-Trichloroethane	<0.32	ug/m3	0.80	0.32	1.44		04/11/18 21:27	79-00-5	
Trichloroethene	< 0.39	ug/m3	0.79	0.39	1.44		04/11/18 21:27	79-01-6	
Trichlorofluoromethane	1.4J	ug/m3	1.6	0.60	1.44		04/11/18 21:27	75-69-4	
1,1,2-Trichlorotrifluoroethane	<0.53	ug/m3	2.2	0.53	1.44		04/11/18 21:27	76-13-1	
1,2,4-Trimethylbenzene	0.67J	ug/m3	1.4	0.25	1.44		04/11/18 21:27	95-63-6	
1,3,5-Trimethylbenzene	<0.59	ug/m3	1.4	0.59	1.44		04/11/18 21:27	108-67-8	
Vinyl acetate	2.5	ug/m3	1.0	0.24	1.44		04/11/18 21:27	108-05-4	
Viny! chloride	<0.18	ug/m3	0.37	0.18	1.44		04/11/18 21:27	75-01-4	
n&p-Xylene	0.84J	ug/m3	2.5	0.50	1.44		04/11/18 21:27	179601-23-1	

1.3

0.53

1.44



Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

QC Batch:

531822

JJ 1022

Analysis Method:

TO-15

QC Batch Method: TO-15

Analysis Description:

TO15 MSV AIR Low Level

Associated Lab Samples:

Date: 04/12/2018 04:42 PM

10424997001

METHOD BLANK: 2887883

Associated Lab Samples: 10424997001

Matrix: Air

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualiflers
1,1,1-Trichloroethane	ug/m3	<0.34	1.1	04/11/18 15:28	
1,1,2,2-Tetrachloroethane	ug/m3	<0.29	0.70	04/11/18 15:28	
1,1,2-Trichloroethane	ug/m3	<0.22	0.56	04/11/18 15:28	
1,1,2-Trichlorotrifluoroethane	ug/m3	< 0.37	1.6	04/11/18 15:28	
1,1-Dichloroethane	ug/m3	<0.21	0.82	04/11/18 15:28	
1,1-Dichloroethene	ug/m3	<0.24	0.81	04/11/18 15:28	
1,2,4-Trichlorobenzene	ug/m3	< 0.96	7.5	04/11/18 15:28	
1,2,4-Trimethylbenzene	ug/m3	<0.17	1.0	04/11/18 15:28	
1,2-Dibromoethane (EDB)	ug/m3	< 0.33	1.6	04/11/18 15:28	
1,2-Dichlorobenzene	ug/m3	< 0.33	1.2	04/11/18 15:28	
1,2-Dichloroethane	ug/m3	<0.20	0.41	04/11/18 15:28	
1,2-Dichloropropane	ug/m3	<0.31	0.94	04/11/18 15:28	
1,3,5-Trimethylbenzene	ug/m3	<0.41	1.0	04/11/18 15:28	
1,3-Butadiene	ug/m3	<0.21	0.45	04/11/18 15:28	
1,3-Dichlorobenzene	ug/m3	<0.47	1.2	04/11/18 15:28	
1,4-Dichlorobenzene	ug/m3	<0.22	1.2	04/11/18 15:28	
2-Butanone (MEK)	ug/m3	<0.20	3.0	04/11/18 15:28	
2-Hexanone	ug/m3	<0.61	4.2	04/11/18 15:28	
?-Propanol	ug/m3	<1.2	2.5	04/11/18 15:28	
-Ethyltoluene	ug/m3	<0.21	1,0	04/11/18 15:28	
-Methyl-2-pentanone (MIBK)	ug/m3	<0,36	4.2	04/11/18 15:28	
cetone	ug/m3	<1.5	2.4	04/11/18 15:28	
enzene	ug/m3	<0.15	0.32	04/11/18 15:28	
enzyl chloride	ug/m3	<0.24	2.6	04/11/18 15:28	
romodichloromethane	ug/m3	< 0.36	1.4	04/11/18 15:28	
romoform	ug/m3	.<0.69	5.3	04/11/18 15:28	
romomethane	ug/m3	<0.21	0,79	04/11/18 15:28	
Carbon disulfide	ug/m3	<0.18	0.63	04/11/18 15:28	
Carbon tetrachloride	ug/m3	<0.32	0.64	04/11/18 15:28	
hlorobenzene	ug/m3	<0.18	0.94	04/11/18 15:28	
hloroethane	ug/m3	<0.20	0.54	04/11/18 15:28	
Chloroform	ug/m3	<0.23	0.50	04/11/18 15:28	•
Chloromethane	ug/m3	<0.13	0.42	04/11/18 15:28	
ls-1,2-Dichloroethene	ug/m3	<0.34	0.81	04/11/18 15:28	
is-1,3-Dichloropropene	ug/m3	<0.24	0.92	04/11/18 15:28	
cyclohexane	ug/m3	<0.23	0.70	04/11/18 15:28	
bloromochloromethane	ug/m3	<0.44	1.7	04/11/18 15:28	
ichlorodifluoromethane	ug/m3	<0.42	1.0	04/11/18 15:28	
ichlorotetrafluoroethane	ug/m3	<0.44	1.4	04/11/18 15:28	
thanol	ug/m3	<0.46	0.96	04/11/18 15:28	
thyl acetate	ug/m3	<0,20	0.73	04/11/18 15:28	

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REPORT OF LABORATORY ANALYSIS



Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

METHOD BLANK: 2887883

7727001

Matrix: Air

Associated Lab Samples: 10424997001

		Blank	Reporting		
Parameter	Units	Result	Limit	Analyzed	Qualifiers
Ethylbenzene	ug/m3	<0.17	0.88	04/11/18 15:28	
Hexachloro-1,3-butadiene	ug/m3	<0.87	2.2	04/11/18 15:28	
m&p-Xylene	ug/m3	<0.35	1.8	04/11/18 15:28	
Methyl-tert-butyl ether	ug/m3	<0.67	3.7	04/11/18 15:28	
Methylene Chłoride	ug/m3	<1.5	3.5	04/11/18 15:28	
n-Heptane	ug/m3	<0.21	0.83	04/11/18 15:28	
n-Hexane	ug/m3	< 0.33	0.72	04/11/18 15;28	
Naphthalene	ug/m3	<0.60	2.7	04/11/18 15:28	
o-Xylene	ug/m3	< 0.37	0.88	04/11/18 15:28	
Propylene	ug/m3	< 0.16	0.35	04/11/18 15:28	
Styrene	ug/m3	<0.17	0.87	04/11/18 15:28	
etrachloroethene	ug/m3	<0.29	0.69	04/11/18 15:28	
etrahydrofuran	ug/m3	<0.27	0.60	04/11/18 15;28	
oluene	ug/m3	<0.16	0.77	04/11/18 15:28	
rans-1,2-Dichloroethene	ug/m3	< 0.30	0.81	04/11/18 15:28	
rans-1,3-Dichloropropene	ug/m3	< 0.42	0.92	04/11/18 15:28	
Trichloroethene	ug/m3	<0.27	0.55	04/11/18 15:28	
Trichlorofluoromethane	ug/m3	<0.42	1.1	04/11/18 15:28	
Vinyl acetate	ug/m3	<0.17	0.72	04/11/18 15:28	
Vinyl chloride	ug/m3	<0.13	0,26	04/11/18 15:28	

LABORATORY CONTROL SAMPLE	: 2887884					
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/m3	55.5	57.7	104	70-135	
1,1,2,2-Tetrachloroethane	ug/m3	69.8	75.0	107	70-146	
1,1,2-Trichloroethane	ug/m3	55.5	63,1	114	70-135	
1,1,2-Trichlorotrifluoroethane	ug/m3	77.9	75. 9	97	63-139	
1,1-Dichloroethane	ug/m3	41.1	41.3	100	70-134	
1,1-Dichloroethene	ug/m3	40.3	41.2	102	70-137	
1,2,4-Trichlorobenzene	ug/m3	75.4	72.3	96	60-133	
1,2,4-Trìmethylbenzene	ug/m3	50	60.2	120	70-137	
1,2-Dibromoethane (EDB)	ug/m3	78.1	90.7	116	70-140	
1,2-Dichlorobenzene	ug/m3	61.1	63.0	103	70-137	
1,2-Dichloroethane	ug/m3	41.1	42.8	104	70-136	
1,2-Dichloropropane	ug/m3	47	50.8	108	70-136	
1,3,5-Trimethylbenzene	ug/m3	50	58.3	117 ·	70-133	
1,3-Butadiene	ug/m3	22.5	26.5	118	64-141	
1,3-Dichlorobenzene	ug/m3	61.1	59.8	98	70-137	
1,4-Dichlorobenzene	ug/m3	61.1	61.9	101	70-134	
2-Butanone (MEK)	ug/m3	30	31.0	103	65-143	
?-Hexanone	ug/m3	41.6	52.5	126	60-148	
2-Propanol	ug/m3	125	137	109	65-135	
4-Ethyltoluene	ug/m3	50	49.3	99	70-132	

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REPORT OF LABORATORY ANALYSIS

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Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

LABORATORY CONTROL SAMPLE:	2887884					
		Spike	LCS	LCS	% Rec	
Parameter	Units	Conc.	Result	% Rec	Limits	Qualifiers
4-Methyl-2-pentanone (MIBK)	ug/m3	41.6	48.2	116	70-135	
Acetone	ug/m3	121	109	90	59-132	
Senzene ·	ug/m3	32.5	33.6	103	70-134	
enzyl chloride	ug/m3	52.6	48,5	92	56-150	
romodichloromethane	ug/m3	68.1	79.5	117	70-142	
romoform	ug/m3	105	101	96	69-150	
romomethane	ug/m3	39,5	41.7	106	61-141	
arbon disulfide	ug/m3	31.6	36,0	114	66-134	
arbon tetrachloride	ug/m3	64	66.4	104	60-145	
nlorobenzene	ug/m3	46.8	49,2	105	70-130	
nloroethane	ug/m3	26.8	28.3	106	65-143	
nloroform	ug/m3	49.6	49,6	100	70-132	
nloromethane	ug/m3	21	22.5	107	58-140	
s-1,2-Dichloroethene	ug/m3	40.3	45,0	112	70-136	
s-1,3-Dichloropropene	ug/m3	46.1	47.4	103	70-136	
/clohexane	ug/m3	35	39.0	112	70-133	
oromochloromethane	ug/m3	86.6	88.7	102	68-149	
chlorodifluoromethane	ug/m3	50.3	48.7	97	69-130	
chlorotetrafluoroethane	ug/m3	71	71.8	101	68-130	
nanol	ug/m3	91.6	115	126	65-146	
yl acetate	ug/m3	36.6	38,3	105	68-136	
ylbenzene	ug/m3	44.1	49.7	112	70-133	
xachloro-1,3-butadiene	ug/m3	108	128	118	59-140	
kp-Xylene	ug/m3	88.3	99.0	112	70-133	
thyl-tert-butyl ether	ug/m3	36.6	35.9	98	70-132	
thylene Chloride	ug/m3	177	177	100	67-132	
leptane	ug/m3	41.6	47.5	114	64-136	
l exane	ug/m3	35.8	37.7	105	70-130	
phthalene	ug/m3	53.3	52.1	98	55-136	
(ylene	ug/m3	44.1	48.3	109	70-132	
opylene .	ug/m3	17.5	20.4	117	37-150	
/rene	ug/m3	43.3	43.0	99	70-139	
rachloroethene	ug/m3	68.9	71.0	103	70-133	
rahydrofuran	ug/m3	30	33.7	112	62-141	
uene	ug/m3	38.3	42.5	· 111	70-130	
ns-1,2-Dichloroethene	ug/m3	40.3	44.1	109	70-132	
ns-1,3-Dichloropropene	ug/m3	46.1	46.4	101	70-135	
chloroethene	ug/m3	54.6	61.6	113	70-135	
chlorofluoromethane	ug/m3	57.1	54.6	96	59-140	
ıyl acetate	ug/m3	35,8	31.9	89	57-150	
yl chloride	ug/m3	26	29.4	113	70-141	

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Project:

P101399.40 DaSwamp Bar

Pace Project No.:

Date: 04/12/2018 04:42 PM

10424997

		10424907001	Dup		Max
Parameter	Units	Result	Result	RPD	RPD Qualifier
1,1-Trichloroethane	ug/m3	ND	<0.53		25
1,2,2-Tetrachloroethane	ug/m3	ND	< 0.45		25
1,2-Trichloroethane	ug/m3	ND	< 0.35		25
1,2-Trichlorotrifluoroethane	ug/m3	ŅD	<0.57		25
1-Dichloroethane	ug/m3	ND	< 0.33		25
1-Dichloroethene	ug/m3	МD	< 0.37		25
2,4-Trichlorobenzene	ug/m3	ND	<1.5		25
2,4-Trimethylbenzene	ug/m3	ND	1.3J		25
2-Dibromoethane (EDB)	ug/m3	ND	< 0.52		25
2-Dichlorobenzene	ug/m3	ND	<0.51		. 25
2-Dichloroethane	ug/m3	ND	<0.31		25
2-Dichloropropane	ug/m3	ND	<0.47		25
3,5-Trimethylbenzene	ug/m3	ND	<0.64		25
3-Butadlene	ug/m3	ND	<0.32		25
3-Dichlorobenzene	ug/m3	ND	<0.72		25
4-Dichlorobenzene	ug/m3	ND	<0.34		25
Butanone (MEK)	ug/m3	ND	2.5J		25
Hexanone	ug/m3	ND	<0.95		25
Propanol	ug/m3	ND	3.7J		25
Ethyltoluene	ug/m3	1.7	<0.33		25
Methyl-2-pentanone (MIBK)	ug/m3	ND	<0.55		25
etone	ug/m3	9.6	6.7	36	25 R1
nzene	ug/m3	0.69	0.71	3	25
nzyl chloride	ug/m3	ND	<0.37	Ü	25
omodichloromethane	ug/m3	ND	<0.55		25
omoform	ug/m3	ND	<1.1		25
omomethane	ug/m3	ND	<0.32		25
rbon disulfide	ug/m3	ND	<0.28		25
rbon tetrachloride	ug/m3	ND	<0.49		25
lorobenzene	ug/m3	ND	<0.28	•	25
loroethane	ug/m3	· ND	<0.32		25
loroform	ug/m3	ND	<0.36		25
oromethane	ug/m3	ND ND	<0.21		25
เอเอกายแกลกe -1,2-Dichloroethene	ug/m3	ND	<0.53		25 25
-1,2-Dichloropropene	ug/m3	ND ND	<0.38		25
olohexane	ug/m3	ND	<0.35		25 25
oromochloromethane	ug/m3	ND	<0.69		25
hlorodifluoromethane	ug/ma ug/m3	2.2	2.3	1	25 25
				ı	
hlorotetrafluoroethane	ug/m3	ND 16.7	<0.69	A	25 25
anol	ug/m3	ND	16.1	4	25 25
yl acetate	ug/m3	ND ND	< 0.30		
ylbenzene	ug/m3	ND ND	0,4 0 J		25
kachloro-1,3-butadiene	ug/m3		<1.3		25 25
p-Xylene	ug/m3	ND	1.4J		25
lhyl-tert-butyl ether ihylene Chloride	ug/m3 ug/m3	ND ND	<1.0 5.2J		25 · 25

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REPORT OF LABORATORY ANALYSIS



Project:

P101399.40 DaSwamp Bar

Pace Project No.:

10424997

SAMPLE DUPLICATE: 2889028		10424907001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
-Hexane	ug/m3	1.8	1.9	1	25	
laphthalene	ug/m3	ND	< 0.93		25	
-Xylene	ug/m3	ND	<0.58		25	
ropylene	ug/m3	ND	<0.24		25	
tyrene	ug/m3	ND	< 0.26		25	
trachloroethene	ug/m3	ND	< 0.44		25	
rahydrofuran	ug/m3	ND	< 0.42		25	
uene	ug/m3	4.2	4.2	1	25	
ns-1,2-Dichloroethene	ug/m3	ND	< 0.46		25	
ns-1,3-Dichloropropene	ug/m3	ND	<0.65		25	
chloroethene	ug/m3	ND	< 0.42		25	
chlorofluoromethane	ug/m3	ND	<0.65		25	
yl acetate	ug/m3	ND	< 0.26		25	
nyl chloride	ug/m3	ND	<0.20		25	

SAMPLE DUPLICATE: 2889044						
Parameter	Units	10424997001 Result	Dup Result	RPD	Max RPD	Qualifiers
1.1.1-Trichloroethane	ug/m3	<0.49	<0.49		25	
1,1,2,2-Tetrachloroethane	ug/m3	<0.42	<0.49		25 25	
1,1,2-Trichloroethane	ug/m3 ug/m3	<0.32	<0.32		25 25	
1,1,2-Trichlorotrifluoroethane	ug/m3	<0.53	<0.52 <0.53		25 25	
1,1-Dichloroethane	ug/m3	<0.31	<0.33		25 25	
1.1-Dichloroethene	ug/m3	<0.34	<0.34		25	
1,1-Dichloroethene 1,2,4-Trichlorobenzene	ug/m3	<1.4	<1.4		25	
1,2,4-Trimethylbenzene	ug/m3	0.67J	0.65J		25 25	
	_	<0.48	<0.48		25	
1,2-Dibromoethane (EDB)	ug/m3 ug/m3	<0.47	<0.47		25 25	
1,2-Dichlorobenzene 1,2-Dichloroethane	ug/ni3 ug/m3	<0,29	<0.47		25 25	
1,2-Dichloropropane	ug/m3	<0.44	<0.44		25 25	
1,3,5-Trimethylbenzene	ug/m3 ug/m3	<0.59	<0. 44 <0.59		25 25	
•	ug/ma ug/m3	<0.30	<0.39		25 25	
1,3-Butadiene	•	<0.67	<0.30 <0.67			
1,3-Dichlorobenzene	ug/m3	<0.32	<0.87		25 25	
1,4-Dichlorobenzene	ug/m3	3.6J	<0.3∠ 3.8J		25 25	
2-Butanone (MEK) 2-Hexanone	ug/m3	<0.88	-0.88 <0.88		25 25	
	ug/m3 ug/m3	3.9	4,0	5	25 25	
2-Propanol	ug/m3	<0.31	4.0 <0.31	ວ	25 25	
4-Ethyltoluene	_	<0,51 <0,51	<0.51 <0.51		25 25	
4-Methyl-2-pentanone (MIBK)	ug/m3	12.3	12.6	9	25 25	
Acetone	ug/m3	0.44J		3		
Benzene Benzene	ug/m3	0.44J <0,34	0.41J		25	
Benzyl chloride	ug/m3		<0.34		25	
Bromodichloromethane	ug/m3	<0.51 <1.0	<0.51		25	
Bromoform	ug/m3		<1.0		25	
Bromomethane	ug/m3	<0.30	<0.30	•	25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS



Project:

P101399.40 DaSwamp Bar

Pace Project No.: 10424997

Date: 04/12/2018 04:42 PM

SAMPLE DUPLICATE: 2889044						
		10424997001	Dup		Max	
Parameter	Units	Result	Result	RPD	RPD	Qualifiers
Carbon disulfide	ug/m3	<0.26	<0.26		25	
arbon tetrachloride	ug/m3	<0.46	<0.46		25	
hiorobenzene	ug/m3	<0.26	<0.26		25	
hloroethane	ug/m3	<0.29	<0.29		25	
nloroform	ug/m3	< 0.33	<0.33		25	
loromethane	ug/m3	1.2	1.1	8	25	
-1,2-Dichloroethene	ug/m3	<0.49	< 0.49		25	
-1,3-Dichloropropene	ug/m3	<0.35	< 0.35		25	
clohexane	ug/m3	<0.33	< 0.33		25	
romochloromethane	ug/m3	<0.64	< 0.64		25	
hlorodifluoromethane	ug/m3	2.5	2.4	1	25	
hlorotetrafluoroethane	ug/m3	< 0.64	< 0.64		25	
anol	ug/m3	1960	1980	1	25	E
/l acetate	ug/m3	6.2	6.4	3	25	
/lbenzene	ug/m3	<0.25	< 0.25		25	
achloro-1,3-butadiene	ug/m3	<1.3	<1.3		25	
-Xylene	ug/m3	0.84J	0.87J		25	
hyi-tert-butyl ether	ug/m3	< 0.96	< 0.96		25	
hylene Chloride	ug/m3	<2,2	<2.2		25	
- eptane	ug/m3	<0.30	< 0.30		25	
exane	ug/m3	<0.48	<0.48		25	
hthalene	ug/m3	<0.86	< 0.86		25	
/lene	ug/m3	< 0.53	< 0.53		25	
oylene	ug/m3	<0.23	< 0.23		25	
ene	ug/m3	<0.24	<0.24		25	
rachloroethene	ug/m3	<0.41	<0.41		25	•
rahydrofuran	ug/m3	<0.39	< 0.39		25	
ene	ug/m3	2.2	2.2	1	25	
s-1,2-Dichloroethene	ug/m3	<0.42	< 0.42		25	
s-1,3-Dichloropropene	ug/m3	<0.60	<0.60		25	
nloroethene	ug/m3	<0.39	< 0.39		25	
nlorofluoromethane	ug/m3	1.4J	1.4J		25	
l acetate	ug/m3	2.5	2.5	0	25	
	ug/m3	<0.18	<0.18		25	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.



QUALIFIERS

Project:

P101399.40 DaSwamp Bar

Pace Project No.: 10424997

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-M

Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

Date: 04/12/2018 04:42 PM

E Analyte concentration exceeded the calibration range. The reported result is estimated.

R1 RPD value was outside control limits.





QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project:

P101399.40 DaSwamp Bar

Pace Project No,:

Date: 04/12/2018 04:42 PM

10424997

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10424997001	Basement	TO-15	531822		

ndition Client Name:	Project #:	出:1042490
Pace Analytical*	Document No.; F-MN-A-106-rev.14	Issuing Authority: Pace Minnesota Quality Office
The state of the s	Document Name: Air Sampie Condition Upon Receipt	Document Revised: 28Dec2O17 Page 1 of 1

				F-MN-A-106-rev	.14	Pace Minnesota Quality Office											
Air Sample Condition Upon Receipt	Sicrions	Proj	ect #:	WO#: 10424997													
	Commercial	UPS Pace	Speed Other	ee Cllent		PM: M CLIEN	EM1 T: Endeav		e: 04/09	/18							
Tracking Number:	7476 3	<u>006 22</u>	66		<u> </u>												
Custody Seal on Coole	er/Box Present?	Yes	□No	Seals Intact?	☐ Yes	□No	Optional: Pr	oj. Due Date;	Proj. Name:								
Packing Material:]Bubble Wrap	Bubble B	ags 🗆 Foar	n None	Tin Can	Othe	r:	Temp l	Blank rec: 🗌]Yes 🗆 No							
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Temp should be above fa		***************************************					erson Examinin	z Contents:	☐ G87A9155								
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Chain of Custody Relin	···		□¥es			***************************************											
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Project Manager Review: Manager Review: Date: 3/28/18

Note: Whenever there is a discrepancy affecting North Carolina compiliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)





WO#:10424997

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant f

	d Client Information:	Section B Required Project Inform	setion:			Section Invoice In	C formation:													1	31	.9	6	7	Page:	of	Z
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# 10	'Section D Required Client Information AIR SAMPLE ID Sample IDs MUST BE UNIQUE	Valid Media Codes MEDIA CODE Tedlar Bag T8 1 Lizer Summa Con 1LC 6 Liter Summa Con 1LV High Volume Puff LVP Other PM10	VIEDIA CODE	PID Reading (Client only)	COMPOSITE STAF	COLLE	COMP	POSITE - GRAS	Summa Flow Summa Flow Summa Flow Summa Flow Summa Flow Number Number		roi		hod:	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					Sept In California Sept In Calif	Telegraphic Control of the Control o	7						
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Page 15	ORIG	INAL					PRINT Name	R NAME A of SAMPLER	be /	77	ches	J.		DATE	Signer	(MM/1	P21 (7)	. /	F					Тетр М °С	Received on Ice	Custody Sealed Cooler	Samples Intact
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