SITE INVESTIGATION REPORT

For

Old Dutch Mill
N2271 Hwy 45
Campbellsport, Wisconsin 53010

WDNR BRRTS No. 03-20-183944

Prepared For

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Project No. P101393.40

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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 and hydraulic conductivity testing.

The Old Dutch Mill is located in the NW1/4 of the SW1/4, Section 4, Township 13 North, Range 19 East, Township of Auburn, Fond du Lac County, Wisconsin. The subject property address is N2271 Hwy 45, Campbellsport, WI. The site is currently occupied by a private residence. A two-stall detached garage is located north/northeast of the residence. A private potable well is located between the residence and the detached garage.

A closure assessment soil sample collected during a UST closure assessment in the early 1990s reported a gasoline range organics (GRO) detection of 492 ppm.

On August 6, 2006, Environmental Compliance Consultants, Inc. (ECCI) oversaw the installation of ten Geoprobe soil borings in the vicinity of a former dispenser island and UST. A total of 24 soil samples were submitted for laboratory analysis of diesel range organics (DRO), GRO, volatile organic compounds (VOCs) and polycyclic aromatic hydrocarbons (PAHs). Geoprobe borings GP-1 thru GP- 3, GP-5 and GP-7 thru GP-10 were constructed as temporary monitoring wells and groundwater samples were collected. The groundwater samples were submitted for laboratory analysis of VOCs and PAHs.

Soil sample laboratory analytical results reported detections of analyzed constituents above Wisconsin Administrative Code (WAC), NR 720.09 residual contaminant levels in soil samples GP-1-6, GP-2-4, GP-2-6, GP-3-6, GP-8-4 and GP-8-6. Contaminants reported at concentrations exceeding their respective WAC, NR 720.09 residual contaminant levels included DRO, GRO, ethylbenzene, toluene, total xylenes and naphthalene.

Groundwater sample laboratory analytical results reported detections of analyzed constituents above WAC, NR 140 enforcement standards or preventive action limits in groundwater samples GP-1 thru GP-3 GP-5, and GP-8 thru GP-10. Constituents reported at concentrations exceeding their respective WAC, NR 140 enforcement standards or preventive action limits included benzene, ethylbenzene, toluene, total xylenes, total trimethylbenzenes (TMBs), naphthalene, benzo(a) pyrene, benzo(b) fluoranthene and chrysene.

The petroleum release was reported to the Wisconsin Department of Natural Resources (WDNR) on March 26, 1998. An initial Responsible Party letter was issued dated March 31, 1998. An amended Responsible Party letter was issued to William & Tracy Ostrander, dated March 5, 2002, outlining the obligation to restore the environment at the property.

Endeavor was retained under an Agent Contract with the Responsible Party (William & Tracy Ostrander) and WDNR on September 29, 2011, to complete a site investigation and/or remedial activities associated with the confirmed petroleum release. Endeavor prepared a Site Investigation Work Plan (SIWP) that was submitted to the WDNR on October 31, 2011.

As part of the site investigation, on January 25, 2016, a total of five Geoprobe soil borings (GP-10 thru GP-14) and five monitoring wells (MW-1 thru MW-5) via hollow-stem auger were installed by Geiss Soil & Samples, LLC. A total of fifteen samples were preserved and submitted to Synergy Environmental Lab, Inc. (Synergy), for laboratory analysis of petroleum volatile organic compounds (PVOCs) plus naphthalene, PVOCs and/or PAHs.

Five soil borings were constructed as Wisconsin Administrative Code (WAC), NR 141 groundwater monitoring wells (MW-1 thru MW-5). Endeavor performed five groundwater sampling events during which groundwater samples were collected from monitoring wells and submitted for laboratory analysis of VOCs. The groundwater sample laboratory analytical results reported contaminant concentrations exceeding WAC, NR 140 enforcement standards (ESs) or preventive action limits (PALs) in groundwater monitoring well MW-5 and temp well GP-13. Contaminants reported at concentrations exceeding their respective WAC, NR 140 ESs or PALs included: benzene, ethylbenzene, toluene, total xylenes, total trimethylbenzenes (TMBs), 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 does not remain on-site.

Site soils observed during soil boring activities consisted primarily of loamy clay and loamy silt. Bedrock was encountered at soil boring MW-3 and GP-10 at a depth of 4 and 8 feet bgs, respectively.

The groundwater table has been measured during well sampling activities and indicates the depth to the groundwater table to be located between 0.98 to 8.00 feet below ground surface (bgs). The groundwater monitoring well network was surveyed and the groundwater flow direction was recently observed to extend southeast/east. Hydraulic conductivity testing was performed on two monitoring wells (MW-2 and MW-5). Hydraulic conductivity at the subject property ranges between 13.0 ft/day and 12.9 ft/day, respectively.

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 below the existing asphalt. Assessment activities have not identified a concern for vapor intrusion to site buildings or contaminant migration along any known utility corridors. Endeavor implemented a natural attenuation monitoring program to address the dissolved contaminant plume.

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1.0 INTRODUCTION AND BACKGROUND

1.1 Responsible Party Information

William & Tracy Ostrander
N2271 STH 45
Campbellsport, Wisconsin 53010

1.2 Consultant Information

Endeavor Environmental Services, Inc.
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1.3 Site Location and Description

The subject property is described as the following:

The subject property is located in the NW ¼, of the SW ¼, Section 04, Township 13 North, Range 19 East, Town of Auburn, Fond du Lac County, Wisconsin. Figure 1 illustrates the site location.

The 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 Winnebago 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 northernmost corner and proceed clockwise are:

661,970 (x), 351,358 (y)
661,981 (x), 351,350 (y)
661,952 (x), 351,296 (y)
661,945 (x), 351,295 (y)
661,945 (x), 351,327 (y)

The site is located on a 0.3-acre parcel (Parcel ID No.: T03-13-19-04-10-007-00). The property is residentially developed and operated as a residence. Two residential structures are located on the subject property. The subject property is serviced by public utilities including electric and telephone. A potable well is located between the house and garage structures.

FIGURE 1 - SITE LOCATION

Legend

0.0 0 0.02 0.0 Miles

NAD_1983_HARN_Wisconsin_TM

1: 990

Note: Not all sites are mapped.

Notes

Dashed yellow line denotes the approximate subject property boundary.

The site is bordered by undeveloped wetlands to the east/southeast and residential properties to the north and west across the road right-of-ways. Figure 2 illustrates the site plan view.

1.4 Previous Environmental Activities

On March 26, 1998, the WDNR was notified of the confirmed petroleum soil and groundwater contamination.

On March 31, 1998, the WDNR issued a "Responsible Party" letter.

On March 5, 2002, the WDNR issued a "Responsible Party" letter to William and Tracy Ostrander, outlining their responsibility to restore the environment.

On August 6, 2006, Environmental Compliance Consultants, Inc. (ECCI) oversaw the installation of ten Geoprobe soil borings in the vicinity of a former dispenser island and UST. A total of 24 soil samples were submitted for laboratory analysis of DRO, GRO, VOCs and PAHs. Geoprobe borings GP-1 thru GP- 3, GP-5 and GP-7 thru GP-10 were constructed as temporary monitoring wells and groundwater samples were collected. The groundwater samples were submitted for laboratory analysis of VOCs and PAHs. Figure 3 illustrates the soil boring configuration.

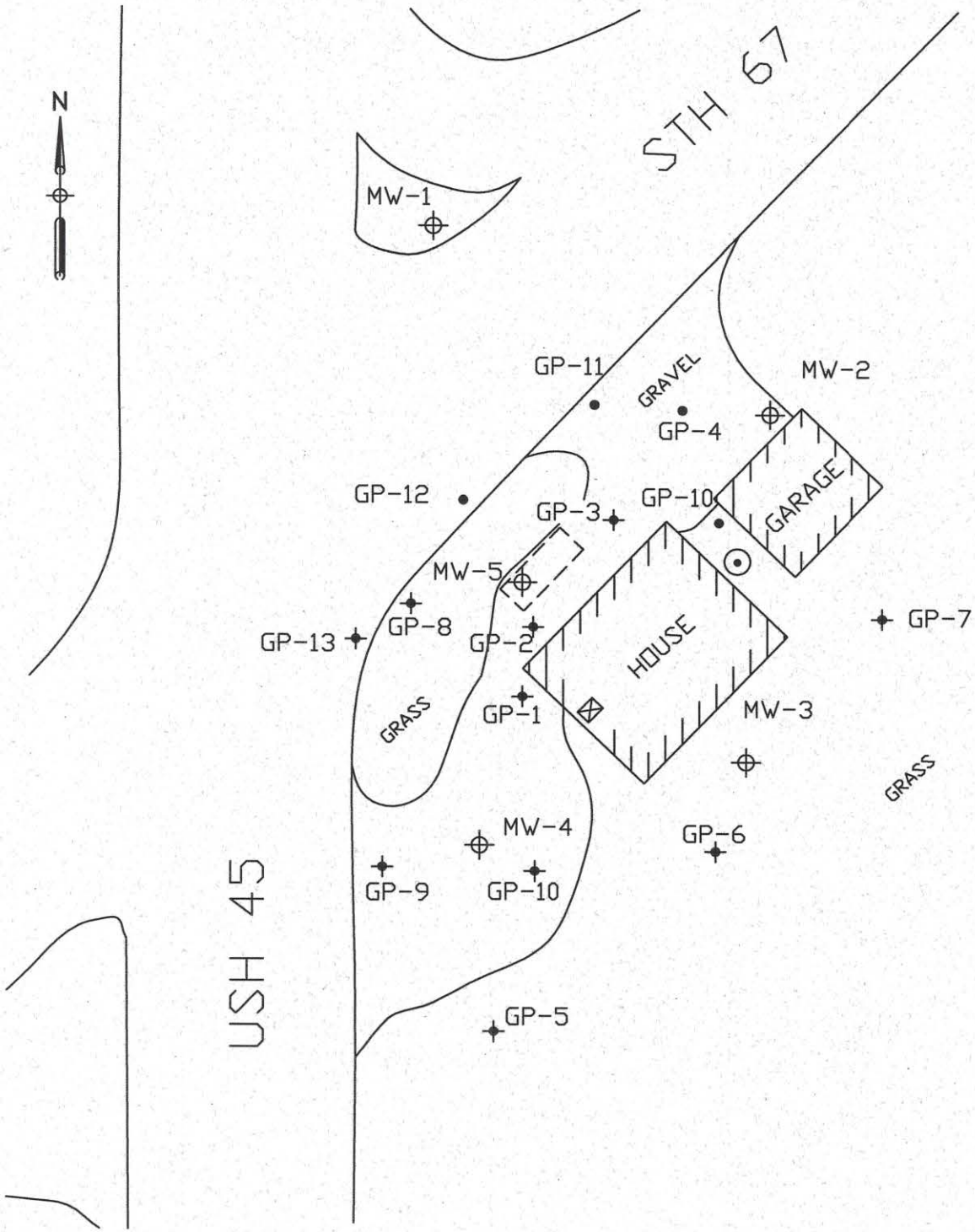
Soil sample laboratory analytical results reported detections of analyzed constituents above Wisconsin Administrative Code (WAC), NR 720.09 residual contaminant levels in soil samples GP-1 -6, GP-2-4, GP-2-6, GP-3-6, GP-8-4 and GP-8-6. Contaminants reported at concentrations exceeding their respective WAC, NR 720.09 residual contaminant levels included DRO, GRO, ethylbenzene, toluene, total xylenes and naphthalene. Soil sample laboratory analytical results are summarized in Table A.1.

Groundwater sample laboratory analytical results reported detections of analyzed constituents above WAC, NR 140 enforcement standards or preventive action limits in groundwater samples GP-1 thru GP-3 GP-5, and GP-8 thru GP-10. Constituents reported at concentrations exceeding their respective WAC, NR 140 enforcement standards or preventive action limits included benzene, ethylbenzene, toluene, total xylenes, total trimethylbenzenes (TMBs), naphthalene, benzo(a) pyrene, benzo(b) fluoranthene and chrysene. Groundwater sample laboratory analytical results are summarized in Table A.2.

On February 15, 2007, Wisconsin Department of Safety and Professional Services (DSPS) granted PECFA eligibility to the aforementioned USTs and their associated contamination.

On September 29, 2011, Endeavor executed an Agent Contract to provide professional consulting services for site investigation and/or remedial activities associated with the confirmed petroleum release.

On October 31, 2011, Endeavor submitted a SIWP to the WDNR.



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LEGEND

- POTABLE WELL
- GEOPROBE SOIL BORING
- GEOPROBE SOIL BORING WITH TEMP WELL
- APPROXIMATE LOCATION OF FORMER UST BASIN
- GROUND WATER MONITORING WELL
- BASEMENT SUMP

FIGURE 2
SITE PLAN VIEW - OVERVIEW
OLD DUTCH MILL
CAMPBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 40'	1 OF 1	P101393.40.2.100	6/28/19	A	SVD	360	SVD	6/28/19

Table A.1
Soil Analytical Table
Old Dutch Mill
Campbellsport, Wisconsin

Sample ID	Sample Date	Sample Depth (feet bgs)	PID (ppm eq)	Saturated / Unsaturated	DRO	GRO	Benzene	Ethyl-benzene	Toluene	Total Xylenes	1,2,4-TMB	1,3,5-TMB	Naphthalene	Isopropyl-benzene	p-Isopropyl-toluene	s-Butyl-benzene	n-Propyl-benzene	Lead
GP-1-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<3.7	<3.1	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	**84**
GP-1-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	<4.1	40	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	8.1
GP-1-6	8/24/2006	10.0 - 12.0	NA	Saturated	15	140	<25	<25	<25	<75	990	420	53	120	430	150	230	4.2
GP-2-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<3.7	<2.7	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	3.1
GP-2-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	100	720	<100	**4,500**	**2,500**	**14,600**	**14,000**	**5,200**	**3,000**	610	600	420	2,400	8.1
GP-2-6	8/24/2006	10.0 - 12.0	NA	Saturated	9	38	<25	1,100	**1,500**	**3,100**	**2,100**	**990**	**950**	160	270	130	430	5.7
GP-3-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	20	<2.6	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	19
GP-3-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	<4.9	20	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	7.2
GP-3-6	8/24/2006	10.0 - 12.0	NA	Saturated	170	810	<25	160	<25	442	**3,900**	**2,600**	630	670	2,400	1,200	1,500	4.5
GP-4-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<4.1	<3.0	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	9.3
GP-4-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	<4.2	<3.1	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	4.9
GP-5-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<4.5	<2.9	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	6.1
GP-5-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	<3.3	<2.6	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	2.5
GP-6-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<3.9	<2.7	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	8.2
GP-7-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<4.2	<2.8	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	5.2
GP-7-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	<3.6	<2.7	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	1.8
GP-8-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	<4.4	<2.9	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	7.4
GP-8-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	230	340	<50	100	<50	<150	1,200	930	530	210	450	210	430	5.7
GP-8-6	8/24/2006	10.0 - 12.0	NA	Saturated	300	760	<120	150	<120	<370	860	780	200	310	660	320	520	3.2
GP-9-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	10	<2.7	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	25
GP-9-4	8/24/2006	6.0 - 8.0	NA	Unsaturated	<4.6	<3.3	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	12
GP-9-6	8/24/2006	10.0 - 12.0	NA	Saturated	<4.1	<3.0	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	6.3
GP-10-2	8/24/2006	2.0 - 4.0	NA	Unsaturated	6.2	<2.7	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	**28**
GP-10-6	8/24/2006	10.0 - 12.0	NA	Saturated	<4.4	<2.7	<25	<25	<25	<75	<25	<25	<25	<25	<25	<25	<25	1.8
GP-10 S-2	1/25/2016	2.0-4.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<20.3	NA	NA	NA	NA	NA
GP-10 S-3	1/25/2016	4.0-6.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-10 S-4	1/25/2016	6.0-8.0	0.7	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-11 S-2	1/25/2016	2.0-4.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-11 S-4	1/25/2016	6.0-8.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-12 S-2	1/25/2016	2.0-4.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-12 S-3	1/25/2016	4.0-6.0	0.7	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-12 S-4	1/25/2016	6.0-8.0	1.4	Unsaturated	NA	NA	<25	<25	25.2 J	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-13 S-3	1/25/2016	4.0-6.0	0.7	Unsaturated	NA	NA	<25	<25	29.7 J	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-13 S-4	1/25/2016	6.0-8.0	2.2	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-14 S-3	1/25/2016	4.0-6.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
GP-14 S-4	1/25/2016	6.0-8.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
MW-1 S-3	1/25/2016	4.0-6.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
MW-1 S-4	1/25/2016	6.0-8.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
MW-3 S-2	1/25/2016	2.0-4.0	0	Unsaturated	NA	NA	<25	<25	<25	<75	<25	<25	<25	NA	NA	NA	NA	NA
Calculated RCLs (groundwater protection)					NS	NS	5.1	1,570	1,107	3,960	1387.7		658	NS	NS	NS	NS	27
Calculated RCLs (direct contact/non-industrial site)					NS	NS	1,600	8,020	818,000	260,000	219,000	182,000	5,520	NS	162,000	145,000	NS	400
Calculated RCLs (direct contact/industrial site)					NS	NS	7,070	35,400	818,000	260,000	219,000	182,000	24,100	NS	NS	145,000	NS	800
Cancer RCL (non-industrial site)					NS	NS	1,600	8,020	NS	NS	NS	NS	5,520	NS	NS	NS	NS	NS
Non Cancer RCL (non-industrial)					NS	NS	106,000	4,080,000	5,240,000	818,000	373,000	339,000	178,000	NS	NS	7,820,000	NS	400
Cancer RCL (industrial site)					NS	NS	7,070	35,400	NS	NS	NS	NS	24,100	NS	NS	NS	NS	NS
Non Cancer RCL (industrial)					NS	NS	587,000	27,400,000	55,300,000	3,570,000	2,390,000	2,060,000	830,000	NS	NS	117,000,000	NS	80

Notes: All concentrations reported are in parts per billion (ug/kg) except DRO, GRO and Lead reported in parts per million (mg/kg)
Calculated RCLs were found on WDNR on-line RCL spreadsheet updated December 2018
Bold value represents an exceedance of calculated RCLs (groundwater protection)

bgs: below ground surface
PID: photoionization detector
ppm eq: parts per million equivalent
DRO: diesel range organics
GRO: gasoline range organics
TMB: trimethylbenzene
MTBE: methyl tert-butyl ether
NA: not analyzed/not applicable
NS: no standard

Table A.1 (continued)
Soil Analytical Table
Old Dutch Mill
Campbellsport, 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
GP-1-2	8/24/2006	2.0 - 4.0	<3.7	<3.6	6.2	8.9	8.5	21	16	16	11	4	8.6	<4.3	13	<3.8	<3.9	<5.0	4.8	7.3
GP-1-4	8/24/2006	6.0 - 8.0	<3.6	<3.5	<4.3	<6.4	<3.5	<3.4	<4.3	<3.7	<5.3	<3.3	<3.5	<4.1	<3.0	<3.7	<3.8	<4.9	<3.6	<3.0
GP-1-6	8/24/2006	10.0 - 12.0	<3.5	<3.4	<4.2	<6.3	<3.4	<3.3	<4.2	<3.6	<5.2	<3.3	<3.4	<4.0	<3.0	12	18	11	<3.5	<2.9
GP-2-2	8/24/2006	2.0 - 4.0	<3.2	7	4.8	<5.6	4.2	4.3	6.2	4.8	5	<2.9	3.7	<3.6	<2.7	<3.2	<3.3	6	<3.1	4
GP-2-4	8/24/2006	6.0 - 8.0	<7.2	<7.0	<8.6	<13	<7.0	<6.8	<8.6	<7.4	<11	<6.7	<7.0	<8.3	<6.1	690	1,600	**1,100**	7.2	<6.0
GP-2-6	8/24/2006	10.0 - 12.0	<3.6	<3.5	<4.3	<6.5	<3.5	<3.4	<4.3	<3.7	<5.3	<3.4	<3.5	<4.2	<3.1	79	200	240	<3.6	<3.0
GP-3-2	8/24/2006	2.0 - 4.0	11	110	190	*980*	*1,300*	*1,200*	630	*1,400*	1,200	*220*	1,800	14	*600*	<11	<11	<14	330	1,600
GP-3-4	8/24/2006	6.0 - 8.0	<3.6	<3.5	<4.3	<6.4	<3.5	<3.4	<4.3	<3.7	<5.3	<3.3	<3.5	<4.1	<3.0	<3.7	<3.8	16	<3.6	<3.0
GP-3-6	8/24/2006	10.0 - 12.0	<3.5	14	17	62	*74*	65	44	73	72	12	110	5.9	36	190	480	180	53	120
GP-4-2	8/24/2006	2.0 - 4.0	<3.6	<3.5	<4.3	<6.5	<3.5	<3.4	<4.3	<3.7	<5.3	<3.4	3.9	<4.2	<3.1	<3.7	<3.8	<4.9	<3.6	3.4
GP-4-4	8/24/2006	6.0 - 8.0	<3.6	<3.5	<4.4	<6.5	<3.5	<3.4	<4.4	<3.8	<5.3	<3.4	<3.5	<4.2	<3.1	<3.7	<3.8	<4.9	<3.6	<3.0
GP-5-2	8/24/2006	2.0 - 4.0	<3.4	<3.3	<4.1	<6.1	4.1	4.5	5.6	4.2	<5.0	<3.2	4.2	<3.9	4.2	<3.5	<3.6	<4.6	<3.4	3.8
GP-5-4	8/24/2006	6.0 - 8.0	<3.1	<3.0	<3.8	<5.6	<3.0	<3.0	<3.8	<3.2	<4.6	<2.9	<3.0	<3.6	<2.7	<3.2	<3.3	<4.2	<3.1	<2.6
GP-6-2	8/24/2006	2.0 - 4.0	<3.2	<3.1	<3.8	<5.7	<3.1	<3.0	<3.8	<3.3	<4.7	<3.0	4	<3.7	<2.7	<3.2	<3.4	2.1	7.4	3.2
GP-7-2	8/24/2006	2.0 - 4.0	<3.3	<3.2	<3.9	<5.8	<3.2	<3.1	<3.9	<3.4	<4.8	<3.0	<3.2	<3.8	<2.8	<3.3	<3.4	<4.4	<3.2	<2.7
GP-7-4	8/24/2006	6.0 - 8.0	<3.2	<3.1	<3.9	<5.8	<3.1	<3.1	<3.9	<3.3	<4.8	<3.0	<3.1	<3.7	<2.7	<3.3	<3.4	<4.4	<3.2	<2.7
GP-8-2	8/24/2006	2.0 - 4.0	<3.5	<3.4	<4.2	12	*24*	21	26	20	16	6.7	13	<4.0	19	<3.6	<3.7	<4.7	<3.5	17
GP-8-4	8/24/2006	6.0 - 8.0	<3.4	<3.3	<4.0	<6.0	5	4.5	4.9	5	<5.0	<3.1	<3.3	<3.9	4.2	270	730	340	3.5	4
GP-8-6	8/24/2006	10.0 - 12.0	<3.2	<3.1	<3.9	<5.7	<3.1	<3.0	<3.9	<3.3	<4.7	<3.0	<3.1	<3.7	<2.7	230	430	<4.3	3.4	<2.7
GP-9-2	8/24/2006	2.0 - 4.0	4.6	23	43	*190*	*270*	*230*	200	230	220	*69*	360	13	*180*	<3.2	<3.3	4.9	80	290
GP-9-4	8/24/2006	6.0 - 8.0	<4.0	<3.8	<4.7	<7.1	<3.8	<3.7	<4.7	<4.1	<5.8	<3.7	<3.8	<4.5	<3.3	<4.0	<4.2	<5.3	<3.9	<3.3
GP-9-6	8/24/2006	10.0 - 12.0	<3.6	<3.5	<4.3	<6.4	<3.5	<3.4	<4.3	<3.7	<5.3	<3.3	<3.5	<4.1	<3.0	<3.6	<3.8	<4.8	<3.6	<3.0
GP-10-2	8/24/2006	2.0 - 4.0	<3.3	7.7	20	*110*	*140*	*140*	81	130	130	*27*	220	<3.8	78	<3.3	<3.4	<4.4	64	190
GP-10-6	8/24/2006	10.0 - 12.0	<3.2	<3.1	<3.9	<5.8	<3.1	<3.1	<3.9	<3.3	<4.7	<3.0	<3.1	<3.7	<2.7	<3.3	<3.4	<4.4	<3.2	<2.7
GP-11 S-2	1/25/2016	2.0-4.0	<20.1	<19.8	<17.1	<19.1	<14.3	<19.0	<20.0	<17.4	<19.2	<15.0	<19.2	<18.4	<16.5	<20.5	<19.9	<20.3	<19.8	<19.2
WDNR Suggested RCL (groundwater Pathway)			38,000	700	3,000,000	17,000	48,000	360,000	6,800,000	870,000	37,000	38,000	100,000	500,000	680,000	23,000	20,000	400	1,800	8,700,000
WDNR Suggested RCL (non-industrial direct contact)			900,000	18,000	5,000,000	88	8.8	88	1,800	880	8,800	8.8	600,000	600,000	88	1,100,000	600,000	20,000	18,000	500,000
WDNR Suggested RCL (industrial direct contact)			60,000,000	360,000	300,000,000	3,900	390	3,900	39,000	3,900	390,000	390	40,000,000	40,000,000	3,900	70,000,000	40,000,000	110,000	390,000	30,000,000

Notes: **Bold** values represent an exceedance of WDNR Suggested RCLs (groundwater pathways)
Italic values represent an exceedance of WDNR Suggested RCLs (non-industrial direct contact)
All concentrations reported are in parts per billion (ug/kg)
bgs: below ground surface
RCL: residual contaminant level

Table A.2
Groundwater Analytical Table
Old Dutch Mill
Campbellsport, Wisconsin

Volatile Organic Compounds

Sample ID	Sample Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	Total TMBs	MTBE	Naphthalene	sec-Butylbenzene	p-isopropyl-toluene	n-Propyl-benzene	Chloroform	Lead	GW Depth (ft bgs)	Groundwater elevation
GP-1-W	8/24/2006	<2.0	12	<3.4	29.5	*323*	<3.0	17	<4.4	39	44	<1.8	7.2	--	--
GP-2-W	8/24/2006	**92**	**900**	**6,100**	**2,750**	**1,010**	<30	**390**	<44	47	120	<18	4.0	--	--
GP-3-W	8/24/2006	<8.2	49	<13	131	*450*	<12	*69*	<18	54	77	<7.4	0.5	--	--
GP-5-W	8/24/2006	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.74	<0.89	<0.67	<0.81	<0.37	<0.40	--	--
GP-7-W	8/24/2006	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.74	<0.89	<0.67	<0.81	<0.37	<0.40	--	--
GP-8-W	8/24/2006	<0.82	41	<1.3	15.7	131	<1.2	*26*	5.4	17	33	<0.74	**100 ***	--	--
GP-9-W	8/24/2006	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.74	<0.89	<0.67	<0.81	<0.37	<0.40	--	--
GP-10-W	8/24/2006	<0.41	<0.54	20	<2.63	<1.80	<0.61	1.0	<0.89	0.78	<0.81	<0.37	<0.40	--	--
PW-N2271	1/1/2016	<0.50	<0.50	<0.50	<1.50	<1.0	<0.17	<2.5	<2.2	<0.50	<0.50	<2.5	NA	--	--
	8/23/2016	<0.41	<0.54	<0.67	<2.63	<1.80	<0.61	<0.74	<0.89	<0.67	<0.81	<0.35	0.46	--	--
	9/27/2017	<0.11	<0.14	0.67	<0.24	NA	NA	NA	NA	<0.088	NA	*1.6*	NA	--	--
GP-13	2/2/2016	*1.78*	16.9	13.4	130	*98.4*	<0.49	NA	NA	NA	NA	NA	NA	6.15	--
	8/23/2016	<0.46	<0.73	<0.39	<2.06	<1.51	<0.49	<2.6	NA	NA	NA	NA	NA	6.96	--
	11/3/2016	<0.30	<0.40	<0.37	<1.3	<0.66	<0.12	<0.18	NA	NA	NA	NA	NA	6.29	--
MW-1	2/2/2016	<0.46	<0.73	0.40 J	<2.06	<1.51	<0.49	0.030 J	NA	NA	NA	NA	NA	7.66	998.62
	5/10/2016	<0.44	<0.71	<0.44	<3.1	<3.1	<1.1	<1.6	NA	NA	NA	NA	NA	6.79	999.49
	8/23/2016	<0.46	<0.73	<0.39	<2.06	<1.51	<0.49	<2.6	NA	NA	NA	NA	NA	8.00	998.28
	11/3/2016	<0.30	<0.40	<0.37	<1.3	<0.66	<0.12	<0.18	NA	NA	NA	NA	NA	7.36	998.92
	9/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	7.98	998.30
MW-2	2/2/2016	<0.46	<0.73	0.39 J	<2.06	<1.51	<0.49	0.021 J	NA	NA	NA	NA	NA	4.75	998.41
	5/10/2016	<0.44	<0.71	<0.44	<3.1	<3.1	<1.1	<1.6	NA	NA	NA	NA	NA	3.89	999.27
	8/23/2016	<0.46	<0.73	0.42 J	<2.06	<1.51	<0.49	<2.6	NA	NA	NA	NA	NA	5.09	998.07
	11/3/2016	<0.30	<0.40	<0.37	<1.3	<0.66	<0.12	<0.18	NA	NA	NA	NA	NA	4.50	998.66
	9/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5.09	998.07
MW-3	2/2/2016	<0.46	<0.73	0.49 J	<2.06	<1.51	<0.49	0.025 J	NA	NA	NA	NA	NA	1.86	998.46
	5/10/2016	<0.44	<0.71	<0.44	<3.1	<3.1	<1.1	<1.6	NA	NA	NA	NA	NA	0.98	999.34
	8/23/2016	<0.46	<0.73	<0.39	<2.06	<1.51	<0.49	<2.6	NA	NA	NA	NA	NA	2.21	998.11
	11/3/2016	<0.37	<0.40	<0.37	<1.3	<0.66	<0.12	<0.18	NA	NA	NA	NA	NA	1.57	998.75
	9/27/2017	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	2.13	998.19
MW-4	2/2/2016	<0.46	<0.73	2.19	<2.06	<1.51	<0.49	0.031 J	NA	NA	NA	NA	NA	4.62	998.48
	5/10/2016	<0.44	<0.71	<0.44	<3.1	<3.1	<1.1	<1.6	NA	NA	NA	NA	NA	3.73	999.37
	8/23/2016	<0.46	<0.73	0.62 J	<2.06	<1.51	<0.49	<2.6	NA	NA	NA	NA	NA	4.95	998.15
	11/3/2016	<0.30	<0.40	<0.37	<1.3	<0.66	<0.12	<0.18	NA	NA	NA	NA	NA	4.31	998.79
	9/27/2017	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	NA	NA	NA	NA	NA	NA	4.93	998.17
MW-5	2/2/2016	<23	*410*	*370*	*837*	**847**	<24.5	**268**	NA	NA	NA	NA	NA	5.03	998.45
	5/10/2016	<22	*163*	73	294 J	**598 J**	<55	**304**	NA	NA	NA	NA	NA	4.12	999.36
	8/23/2016	*4.8 J*	*183*	56	292	**579**	<4.9	**173**	NA	NA	NA	NA	NA	5.37	998.11
	11/3/2016	*0.63 J*	*88*	29	170	*330*	<0.12	*89*	NA	NA	NA	NA	NA	4.28	999.20
	9/27/2017	<2.0	79.1	30.3	135.6	*189.3*	<2.4	NA	NA	NA	NA	NA	NA	5.33	998.15
Sump	9/27/2017	<0.40	<0.39	<0.39	<1.25	<0.84	<0.48	NA	NA	NA	NA	NA	NA	--	--
NR 140 enforcement standard		5	700	800	2,000	480	60	100	NS	NS	NS	6	15	--	--
NR 140 preventive action limit		0.5	140	160	400	96	12	10	NS	NS	NS	0.6	1.5	--	--

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/L)
(*) - unfiltered sample
Bold value represents exceedance of NR 140 enforcement standard
Italic value represents exceedance of NR 140 preventive action limit
TMB: trimethylbenzene NA: not analyzed/not applicable
MTBE: methyl tert-butyl ether NS: no standard

Table A.2 (continued)
Groundwater Analytical Table
Old Dutch Mill
Campbellsport, 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-1-W	8/24/2006	<0.86	<0.85	<1.2	<1.6	<1.9	<1.6	<2.0	<2.0	<2.0	<2.0	<1.6	<0.95	<2.0	64	85	*44*	<1.2	<1.5
GP-2-W	8/24/2006	4.5	<3.9	<5.6	<7.5	<8.8	<7.5	<9.3	<9.3	<9.1	<9.1	<7.5	6.7	<9.1	2,500	5,900	**5,200**	10	<7.0
GP-3-W	8/24/2006	<0.82	1.5	1.4	3.2	**3.8**	**3.5**	2.5	3.4	**4**	<1.9	9.5	1.1	<1.9	370	850	**320**	4.4	7
GP-5-W	8/24/2006	<0.0082	0.048	0.034	0.13	**0.25**	**0.28**	0.26	0.19	*0.17*	0.061	0.29	<0.0091	0.2	0.088	0.2	0.11	0.089	<0.24
GP-7-W	8/24/2006	<0.0082	<0.0081	<0.012	<0.016	<0.018	0.016	<0.019	<0.019	<0.019	<0.019	0.033	<0.0091	<0.019	0.039	0.079	0.06	0.018	0.025
GP-8-W	8/24/2006	<1.1	2.4	2.4	16	**21**	**20**	13	16	**16**	2.7	25	<1.2	10	97	210	110	3.1	24
GP-9-W	8/24/2006	0.051	0.071	0.14	0.38	**0.75**	**0.44**	0.38	0.36	**0.36**	0.099	0.82	0.084	0.31	0.037	0.08	0.099	0.4	0.61
GP-10-W	8/24/2006	0.19	0.046	0.047	0.1	**0.74**	*0.14*	0.12	0.12	*0.12*	<0.075	0.24	0.066	0.096	0.71	0.12	0.97	0.28	0.2
PW-N2271	8/24/2006	<0.0082	<0.0081	<0.012	<0.016	**0.21**	<0.016	0.019	<0.019	<0.019	<0.019	<0.015	<0.0091	<0.019	<0.010	0.015	0.029	<0.011	<0.015
	1/1/2016	<0.0050	<0.0049	<0.0040	<0.0051	<0.0044	<0.0053	0.010 J	<0.0056	<0.0042	0.016 J	<0.0094	<0.0040	0.016 J	<0.0031	0.0037 J	0.012 J	<0.0077	<0.0077
	9/27/2017	<0.0061	<0.0050	<0.010	<0.0076	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	<0.011	<0.0080	<0.018	<0.0059	<0.0049	<0.018	<0.014	<0.0076
MW-1	2/2/2016	<0.02	<0.021	0.024 J	0.042 J	*0.032 J*	*0.054 J*	0.031 J	0.020 J	*0.035 J*	<0.025	0.082	0.019 J	0.022 J	0.029 J	0.029 J	0.030 J	0.055	0.071
MW-2	2/2/2016	<0.02	<0.021	<0.02	<0.019	<0.019	<0.019	<0.024	<0.018	<0.017	<0.025	<0.018	<0.017	<0.018	<0.018	<0.017	0.021 J	0.026 J	<0.018
MW-3	2/2/2016	<0.02	<0.021	<0.02	0.033 J	*0.026 J*	*0.039 J*	0.036 J	0.039 J	*0.031 J*	<0.025	0.026 J	<0.017	0.033 J	<0.018	0.022 J	0.025 J	0.025 J	0.024 J
MW-4	2/2/2016	<0.02	<0.021	<0.02	<0.019	<0.019	<0.019	<0.024	<0.018	<0.017	<0.025	<0.018	<0.017	<0.018	<0.018	0.020 J	0.031 J	0.028 J	<0.018
	9/27/2017	<0.0061	<0.0050	<0.010	<0.0076	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	<0.011	<0.0080	<0.018	<0.0059	<0.0049	<0.018	<0.014	<0.0076
MW-5	2/2/2016	<2	<2.1	<2	<1.9	<1.9	<1.9	<2.4	<1.8	<1.7	<2.5	<1.8	<1.7	<1.8	70	152	**268**	<1.7	<1.8
	9/27/2017	<0.018	<0.015	<0.031	<0.023	<0.032	<0.017	<0.020	<0.023	<0.039	<0.030	<0.032	<0.024	<0.053	9.9	15.3	*37.3*	<0.041	<0.023
Sump	9/27/2017	<0.0061	0.0070 J	<0.010	<0.0076	<0.011	<0.0057	<0.0068	<0.0076	<0.013	<0.010	<0.011	<0.0080	<0.018	0.013 J	0.0064 J	0.036 J	<0.014	<0.0076
NR 140 enforcement 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 preventive action limit		NS	NS	600	NS	0.02	0.02	NS	NS	0.02	NS	80	80	NS	NS	NS	10	NS	50

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/L)
Bold value represents exceedance of NR 140 enforcement standard
NS: no standard

On December 8, 2011, WDNR notified Endeavor, via email, with approval to proceed with investigative activities proposed in the aforementioned SIWP.

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 Sebewa silt loam. Sebewa silt loam has 0 – 2 percent slopes and consists of very deep, poorly to very poorly drained soils. Sebewa silt loam is composed of loam and clay loam over gravely sands. Permeability of this soil ranges from moderate to very high. Depth to groundwater is 1 foot or less below ground surface.

Site investigation activities found site soils consisted primarily of loamy clay and loamy silt.

The WDNR Web View revealed that Virgin Creek is less than one half mile to the east of the site.

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 Silurian System. The bedrock is composed of undivided dolomite that includes the Cayugan, Niagaran, and Alexandrian Series. The underlying bedrock is estimated to range from 15 to 30 meters below ground surface.

Site investigation activities encountered bedrock in the areas of monitoring well MW-3 and soil boring GP-10 at 4 and 8 feet bgs, respectively.

Figures 3 and 4 provide a cross-sectional view of site soils along transects A-A' and B-B', respectively.

On-site depth to groundwater measurements has shown groundwater to be located between 0.98 ft bgs (monitoring well MW-3) to 8.00 ft bgs (monitoring well MW-1). Hydraulic conductivity at the subject property ranges between 12.9 ft/day and 13.0 ft/day. Figures 5 and 6 illustrate the potentiometric surface associated with the September 27, 2017, and November 3, 2016, sampling events, respectively.

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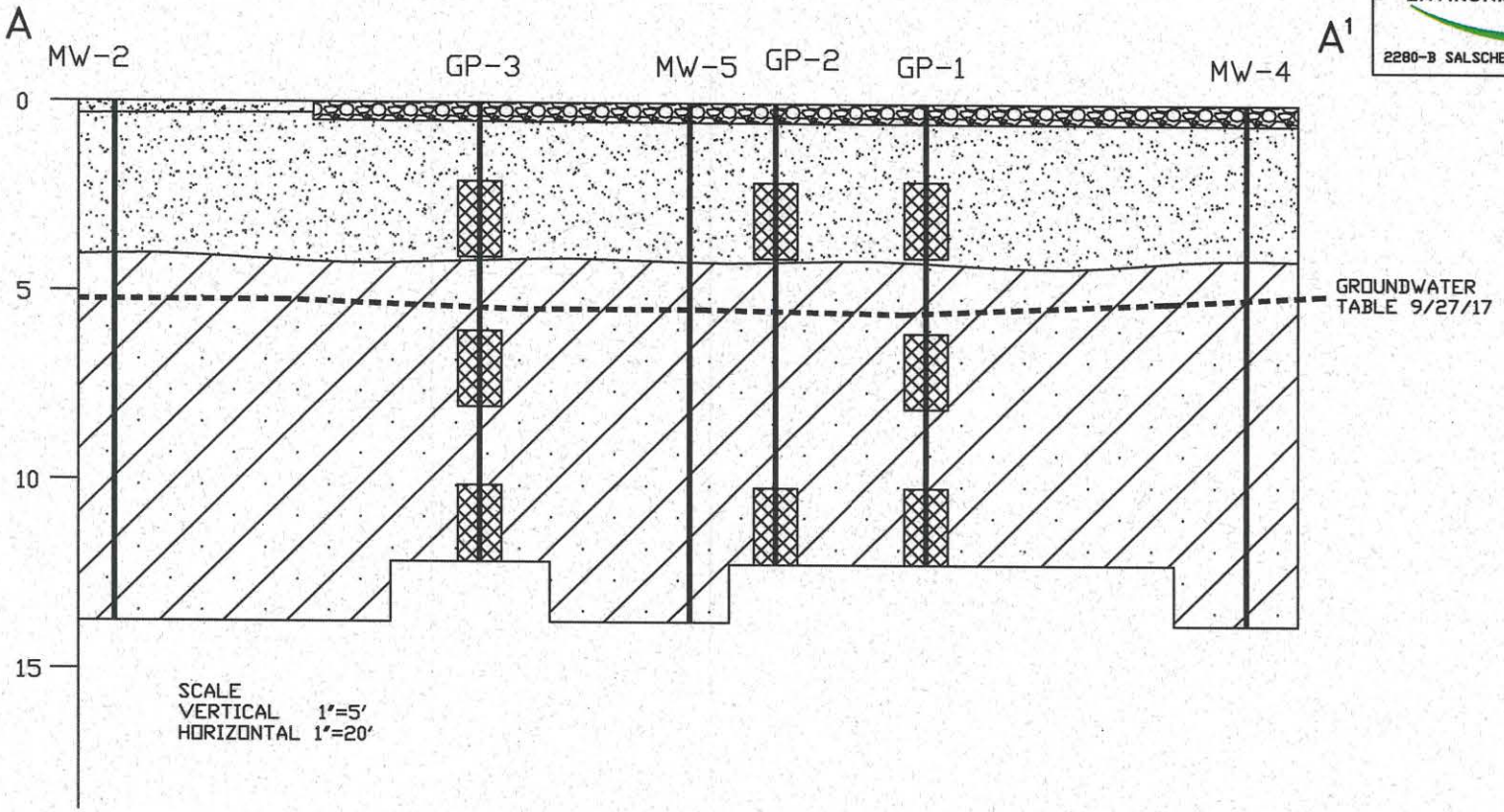

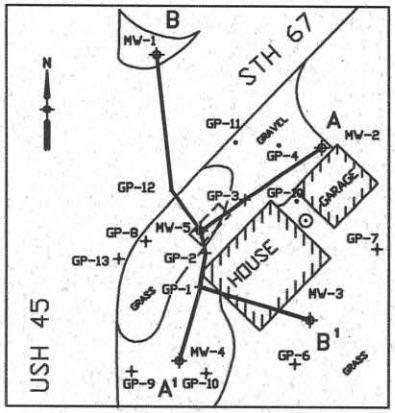

SECTION DETAIL

LEGEND

- LOAMY CLAY
- CONCRETE
- GRAVELLY SAND
- GRAVEL
- SOIL SAMPLE LOCATION

FIGURE 3
GEOLOGIC CROSS-SECTION A-A^1
OLD DUTCH MILL
CAMBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
SEE NOTE	1 OF 1	P101393.40.3.1	6/28/19	A	SVD	360		

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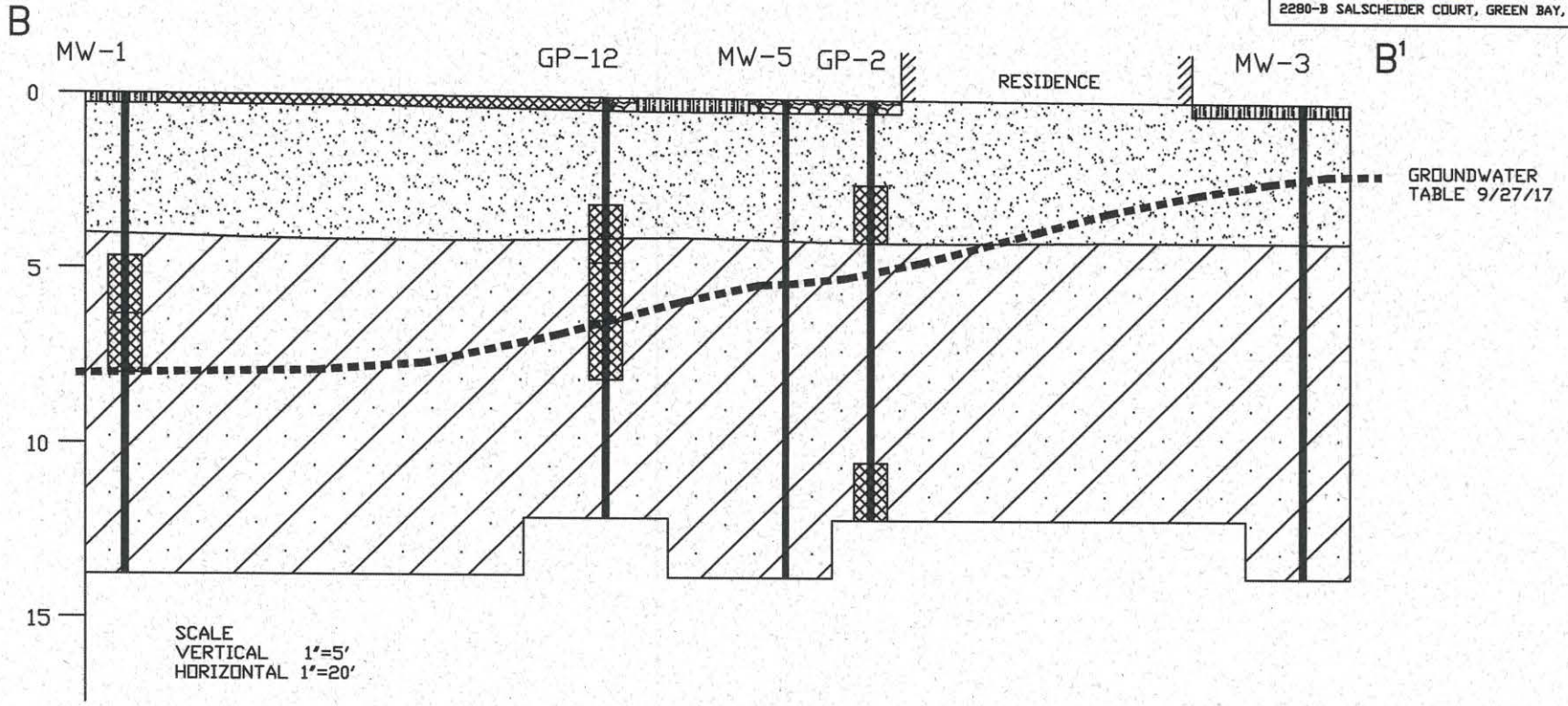
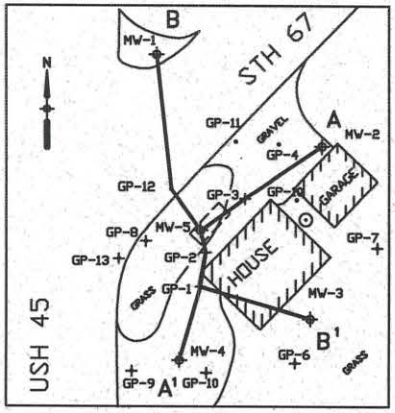




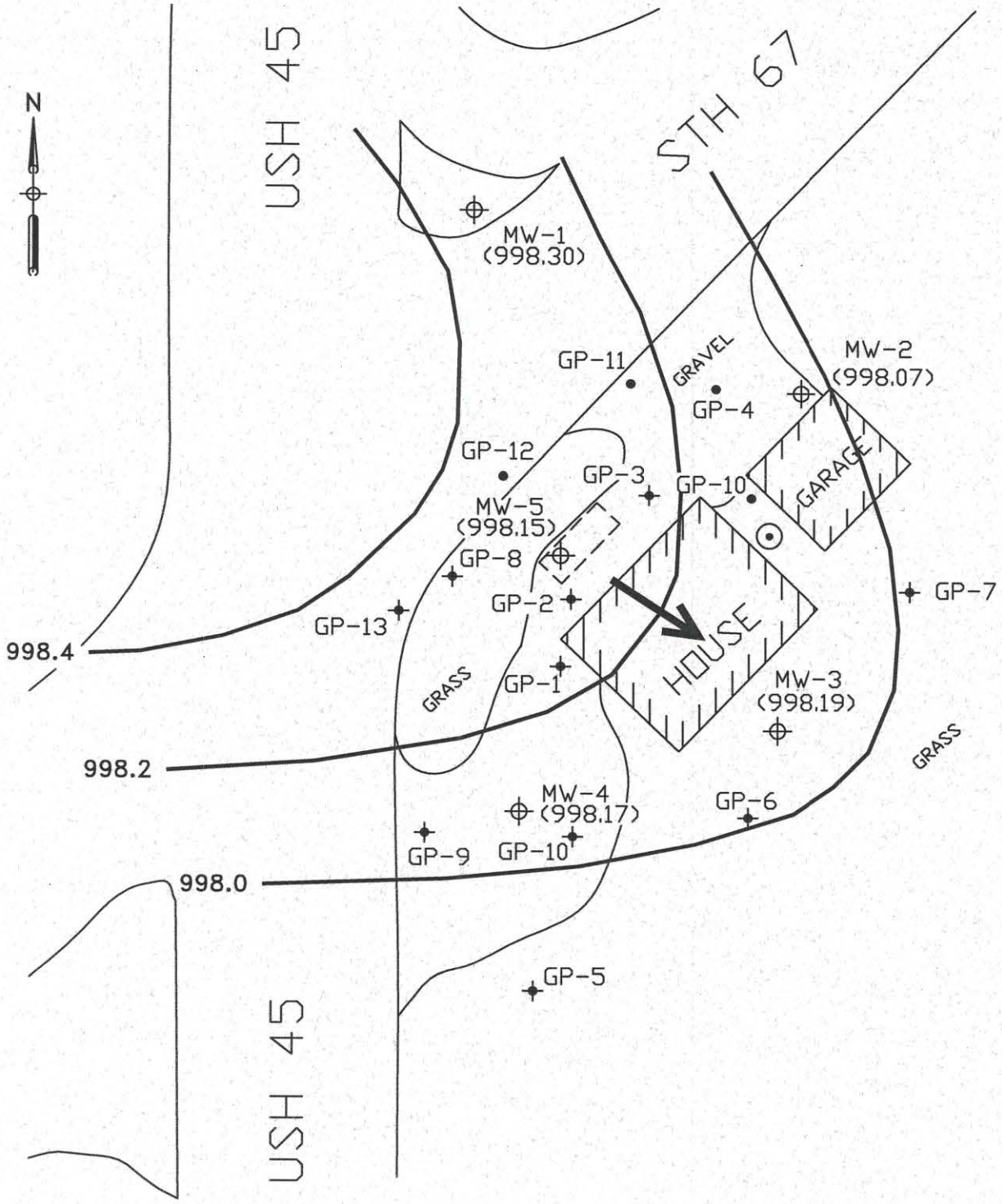
SECTION DETAIL

LEGEND

- LOAMY CLAY
- ASPHALT
- GRAVELLY SAND
- GRAVEL
- GRASS
- SOIL SAMPLE LOCATION

FIGURE 4
GEOLOGIC CROSS-SECTION (B-B^1)
OLD DUTCH MILL
CAMBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
SEE NOTE	1 OF 1	P101393.40.4.1	6/28/19	A	SVO	360		



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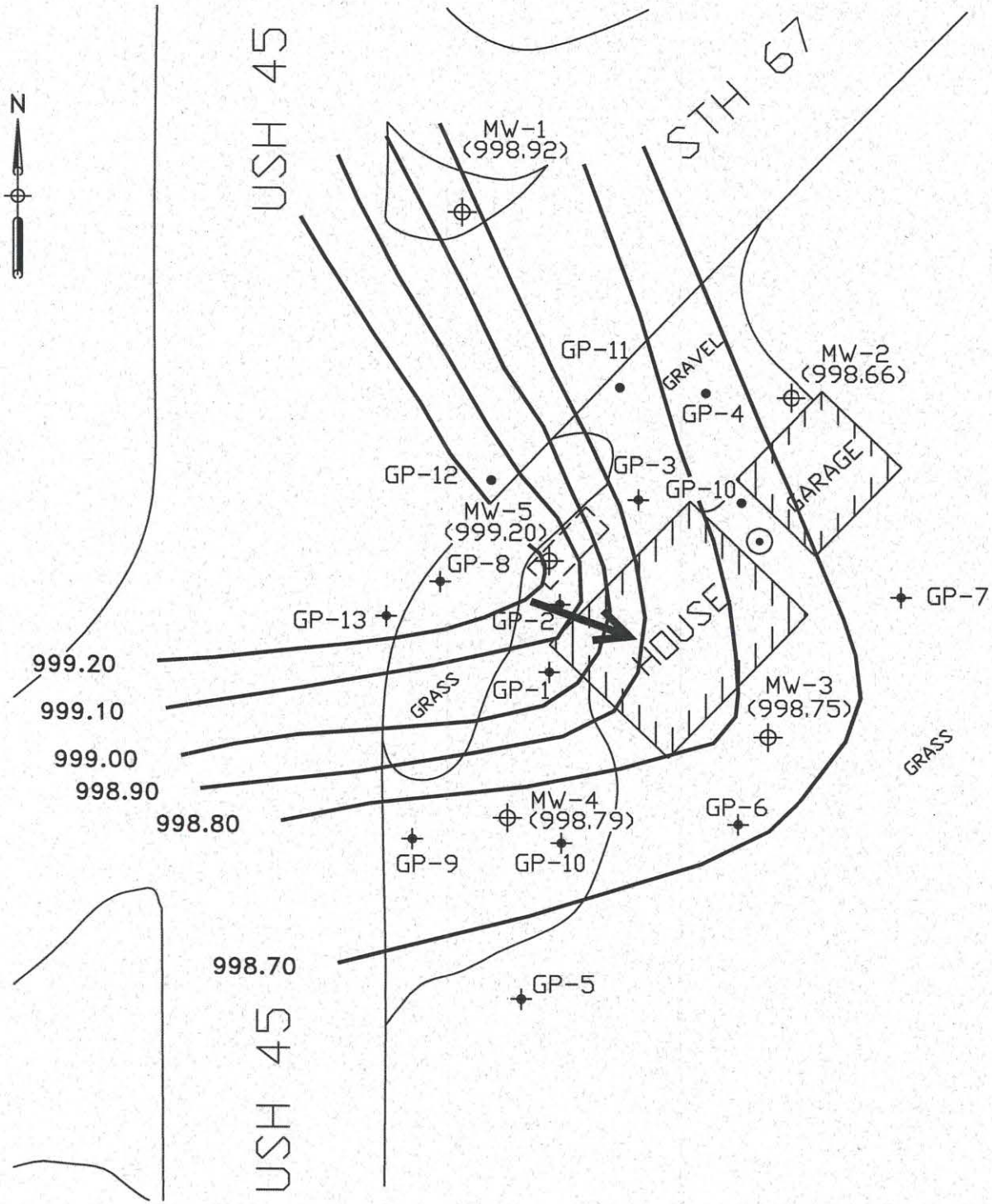
LEGEND

- POTABLE WELL
- GEOPROBE SOIL BORING
- GEOPROBE SOIL BORING WITH TEMP WELL
- APPROXIMATE LOCATION OF FORMER UST BASIN
- GROUND WATER MONITORING WELL
- (998.17) GROUNDWATER ABOVE MEAN SEA LEVEL
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW DIRECTION

FIGURE 5
POTENTIOMETRIC SURFACE
(9/27/2017)
OLD DUTCH MILL
CAMPBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 40'	1 OF 1	P101393.40.5.100	6/28/19	A	SVD	360		



Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313

LEGEND

- ⊙ POTABLE WELL
- • GEOPROBE SOIL BORING
- ✦ GEOPROBE SOIL BORING WITH TEMP WELL
- APPROXIMATE LOCATION OF FORMER UST BASIN
- ⊕ GROUND WATER MONITORING WELL
- (998.66) GROUNDWATER ABOVE MEAN SEA LEVEL
- GROUNDWATER ELEVATION CONTOUR
- GROUNDWATER FLOW

FIGURE 6
POTENTIOMETRIC SURFACE
(11/3/2016)
OLD DUTCH MILL
CAMPBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 40'	1 OF 1	P101393.40.6.100	6/28/19	A	SVD	360		

2.2 Receptors

Utilities

The subject property is serviced by the following utilities: electric and telephone. The subject property is serviced by an on-site potable well. Site investigation activities have confirmed that the utility corridors will not serve for contaminant migration.

Potable Wells

The subject property is serviced by an on-site potable well. Well construction specifications are unconfirmed.

Wisconsin Geologic and Natural History Survey (WGNHS) well records identified four wells in the quarter section surrounding the subject property. Based upon the reviewed information, the identified potable wells range from a depth of 56 to 187 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 submitted a SIWP to the WDNR dated October 31, 2011.

On January 1, 2016, Endeavor personnel were on-site to collect a groundwater sample from the on-site potable well (PW-N2271). The potable well was purged for twenty minutes and a water sample was collected from the basement pressure tank. Potable water sample was appropriately preserved and submitted to Pace Analytical (Pace) for VOC and PAH analysis.

On January 25, 2016, a total of five Geoprobe soil borings (GP-10 thru GP-14) and five monitoring wells (MW-1 thru MW-5) via hollow-stem auger were installed by Geiss Soil & Samples, LLC. A total of fifteen samples were preserved and submitted to Synergy Environmental Lab, Inc. (Synergy), for laboratory analysis of PVOCs or PVOCs plus naphthalene and/or PAHs.

All WDNR Soil Boring Logs, Borehole Abandonment Forms and Well Construction Forms are provided in Appendix C.

On February 2, 2016, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-5 and temp well GP-13. Depth to groundwater measurements were collected from the entire monitoring network. Each monitoring point sampled was purged via bailer. The groundwater samples collected were submitted to Synergy for PVOC and PAH analysis, except GP-13 was only analyzed for PVOCs.

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On May 10, 2016, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-5. Depth to groundwater measurements were collected from the monitoring well network. Each monitoring point sampled was purged via bailer. The groundwater samples collected were submitted to Synergy for PVOC plus naphthalene analysis.

On August 10, 2016, Endeavor personnel performed hydraulic conductivity testing on monitoring wells MW-2 and MW-5 using Bouwer and Rice hydraulic conductivity test. A copy of the tests can be found in Appendix D.

On August 23, 2016, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-5 and temporary well GP-13. Depth to groundwater measurements were collected from the monitoring well network. Each monitoring point sampled was purged via bailer. The groundwater samples collected were submitted to Synergy for PVOC plus naphthalene analysis. The site potable well was also purged for twenty minutes and a potable sample was submitted to Synergy for VOCs by EPA 524.2 analysis.

On November 3, 2016, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-1 thru MW-5 and temporary well GP-13. Depth to groundwater measurements were collected from the monitoring well network. Each monitoring point sampled was purged via bailer. The groundwater samples collected were submitted to ALS for PVOC plus naphthalene analysis.

Endeavor prepared and submitted a Site Status Update to the WDNR dated December 16, 2016.

Endeavor prepared and submitted a Bid Deferment to the WDNR dated May 16, 2017.

WDNR issued a Public Bidding Deferment approval dated May 31, 2017.

On September 27, 2017, Endeavor personnel were on-site to collect groundwater samples from monitoring wells MW-4 and MW-5, site potable well and the basement sump. Depth to groundwater measurements were collected from the monitoring well network. The two referenced monitoring wells were purged via bailer. Groundwater samples, along with the basement sump sample, were submitted to Pace for PVOC and PAH analysis. The site potable was purged for twenty minutes and a sample collected which was submitted to Pace for VOCs by EPA 524.2 analysis.

A copy of all soil and groundwater sample laboratory analytical reports associated with the aforementioned activities and not previously provided to the WDNR are provided in Appendix E and F, respectively.

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3.2 Soil Contaminant Investigation

Site investigation soil sample laboratory analytical results identified an isolated area in the vicinity of boring GP-2 with detections of ethylbenzene, toluene, total xylenes, 1,2,4-TMB, 1,3,5-TMB and naphthalene above their respective WAC, NR720 RCLs (groundwater protection. All remaining analyzed detections were either saturated soil conditions or below their respective WAC, NR720 RCLs (groundwater protection). 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 groundwater protection). Figures 8 and 9 illustrate the vertical extent of petroleum soil contamination exceeding the calculated RCLs (groundwater protection).

As illustrated, the extent of petroleum soil contamination has been adequately defined on the subject property.

3.3 Groundwater Contaminant Investigation

The site investigation activates included collecting water samples from the monitoring wells, temporary monitoring well, site potable well and basement sump during five sampling events. Historical sampling activities have previously identified benzene, ethylbenzene, toluene, total xylenes, total TMBs, naphthalene, benzo(a)pyrene, benzo(b)fluoranthene and chrysene above their respective WAC, NR140 ES. However, the most recent groundwater sampling activities have not identified analyzed constituents above their respective WAC, NR140 ES. Table A.2 provides a complete summary of the groundwater sample laboratory analytical results. Figure 10 illustrates the historical extent of residual groundwater contamination exceeding WAC, NR 140 ESs and PALs

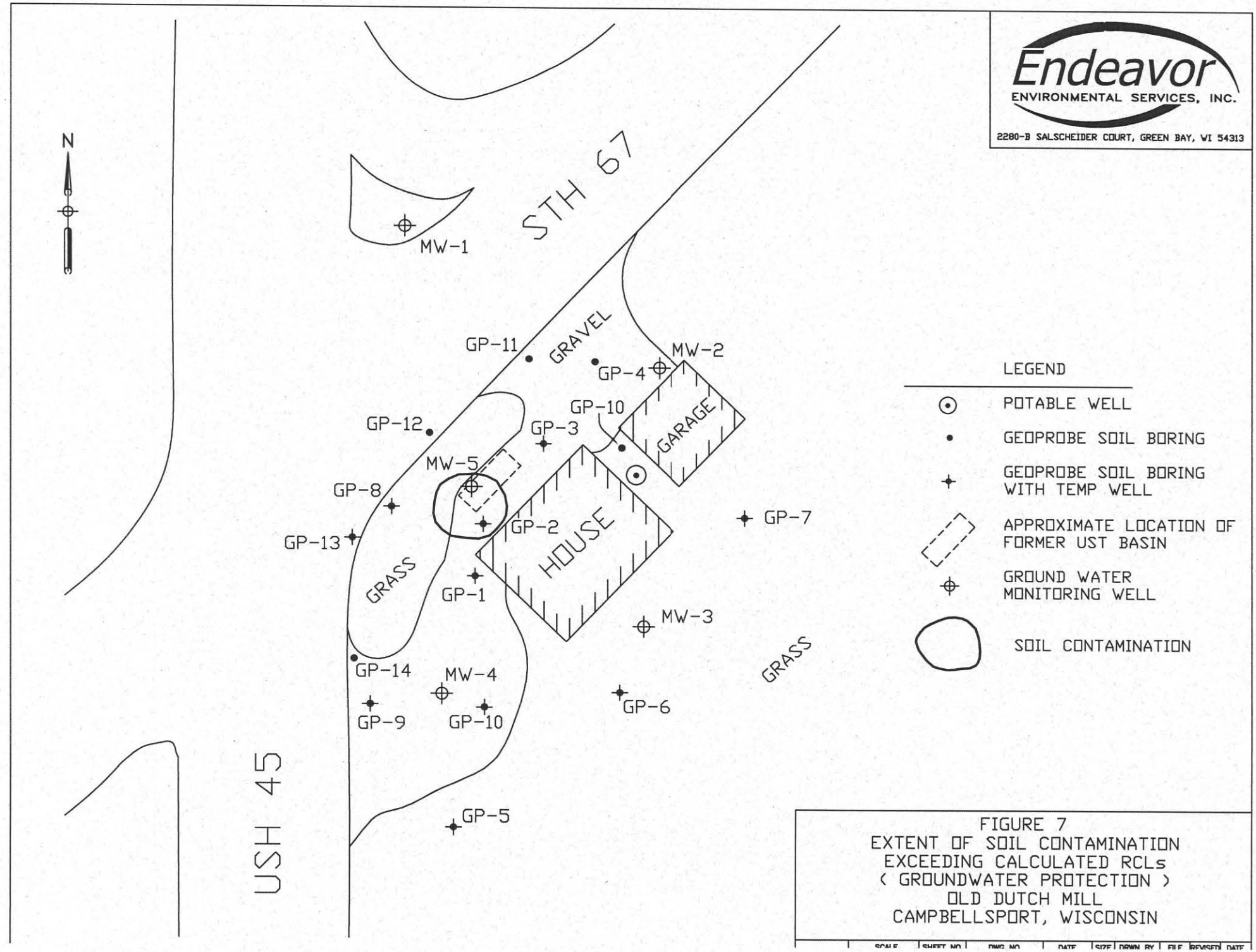
As illustrated, the extent of dissolved petroleum contamination has been adequately defined by the well network at the subject property.

3.4 Free Product Assessment

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

3.5 Contaminant Migration

The on-site depth to groundwater ranges between 0.98 (monitoring well MW3) to 8.00 feet bgs (monitoring well MW-1). Soil sample laboratory analytical results have confirmed that there is only a localized presence of soil contamination within the unsaturated zone near the source monitoring well (MW-5) and soil boring GP-2. Information obtained during site investigation activities does not place any underground public utility corridors within the area of dissolved petroleum contamination. Therefore, site utility corridors are not acting as preferential pathways for contaminant migration.



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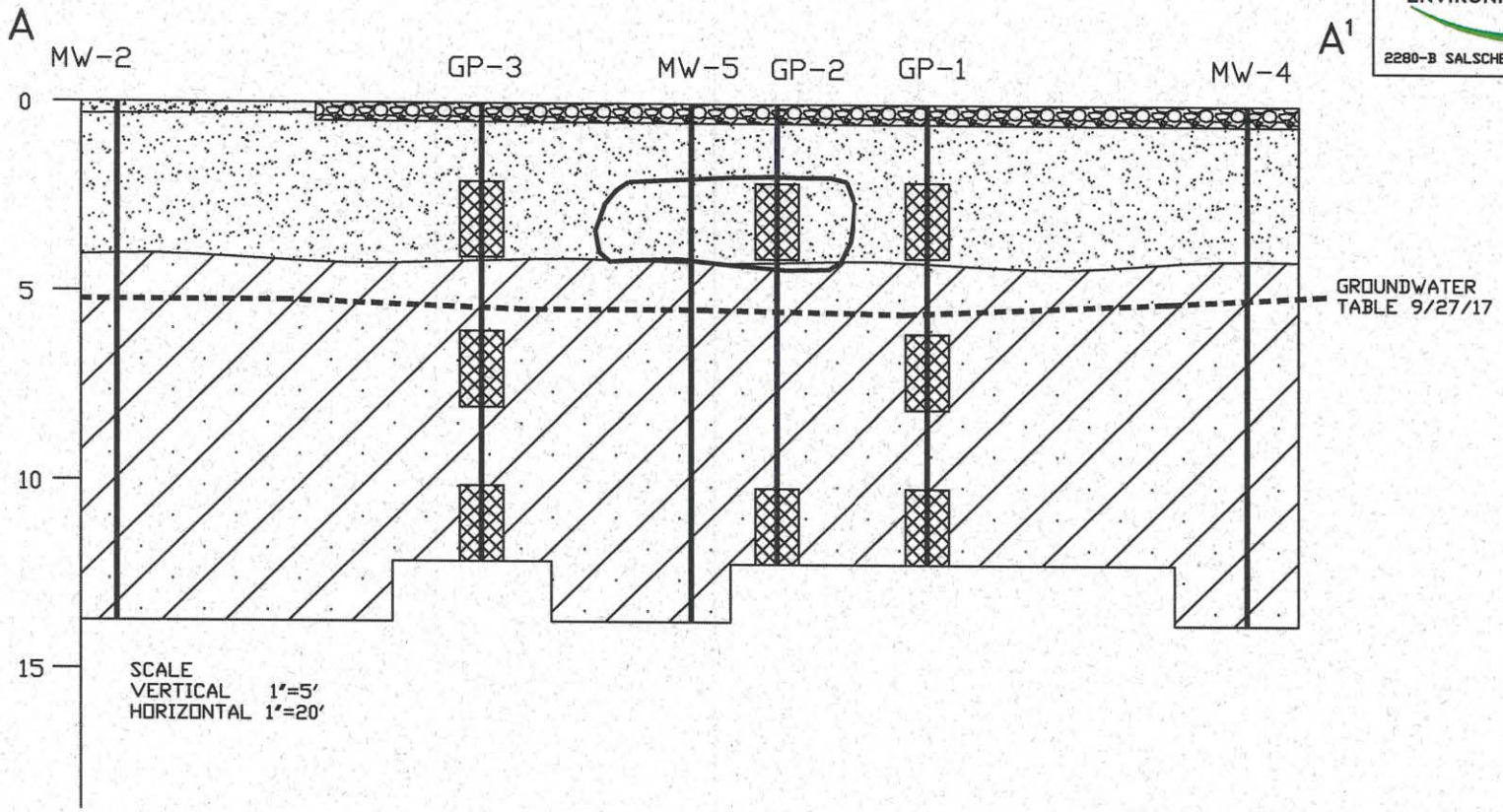
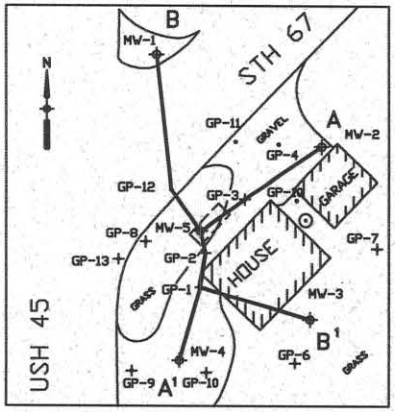
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313

FIGURE 7
EXTENT OF SOIL CONTAMINATION
EXCEEDING CALCULATED RCLs
(GROUNDWATER PROTECTION)
OLD DUTCH MILL
CAMPBELLSPORT, WISCONSIN

SCALE	SHEET NO	DWG NO	DATE	SIZE	DRWN BY	FILE	REVISED	DATE

Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313





SECTION DETAIL

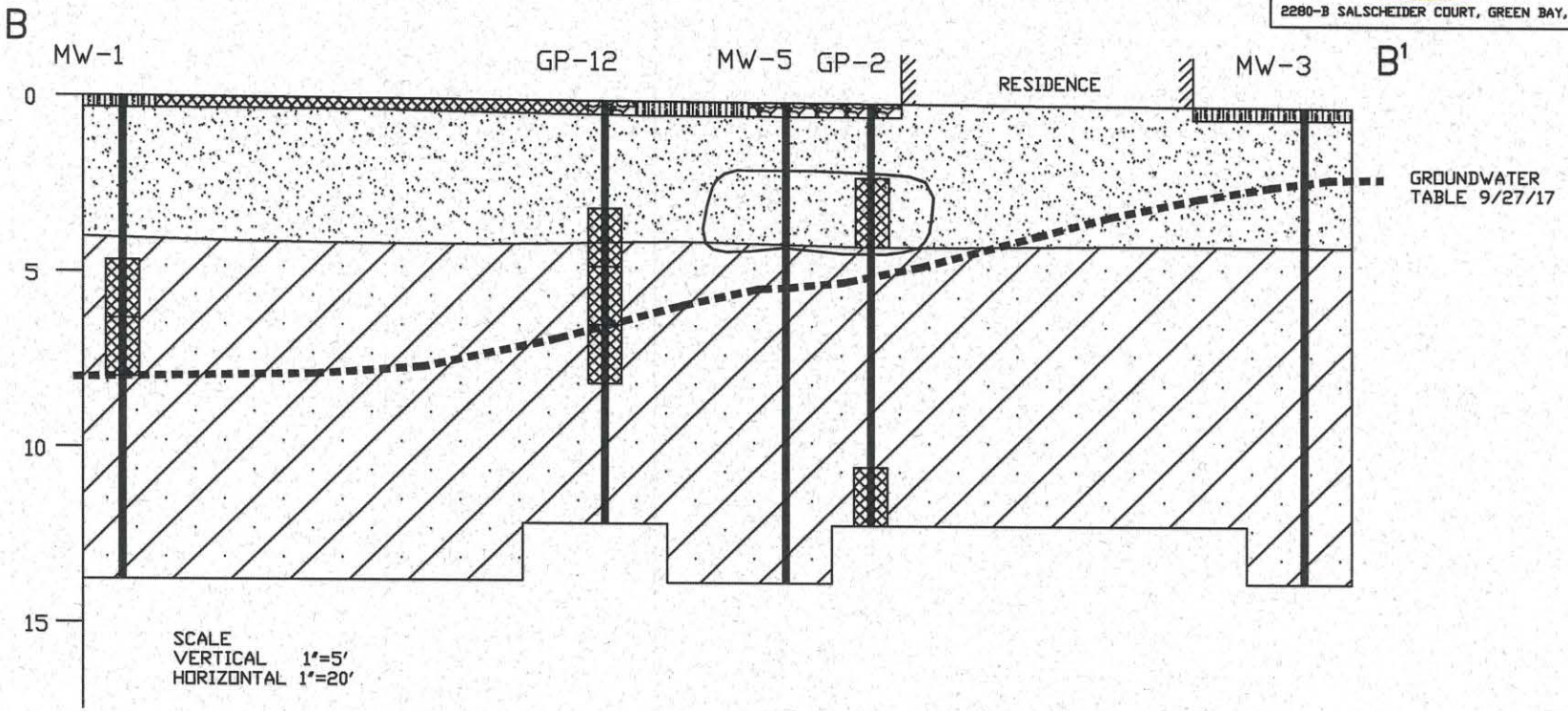
LEGEND

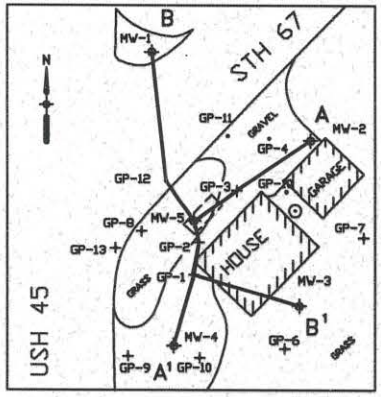
- LOAMY CLAY
- CONCRETE
- GRAVELLY SAND
- GRAVEL
- SOIL SAMPLE LOCATION
- SOIL CONTAMINATION

FIGURE 8
VERTICAL EXTENT SOIL CONTAMINATION
EXCEEDING CALCULATED RCLs (A-A^1)
OLD DUTCH MILL
CAMBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
SEE NOTE	1 OF 1	P101393.40.8.1	6/28/19	A	SVD	360		

Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313





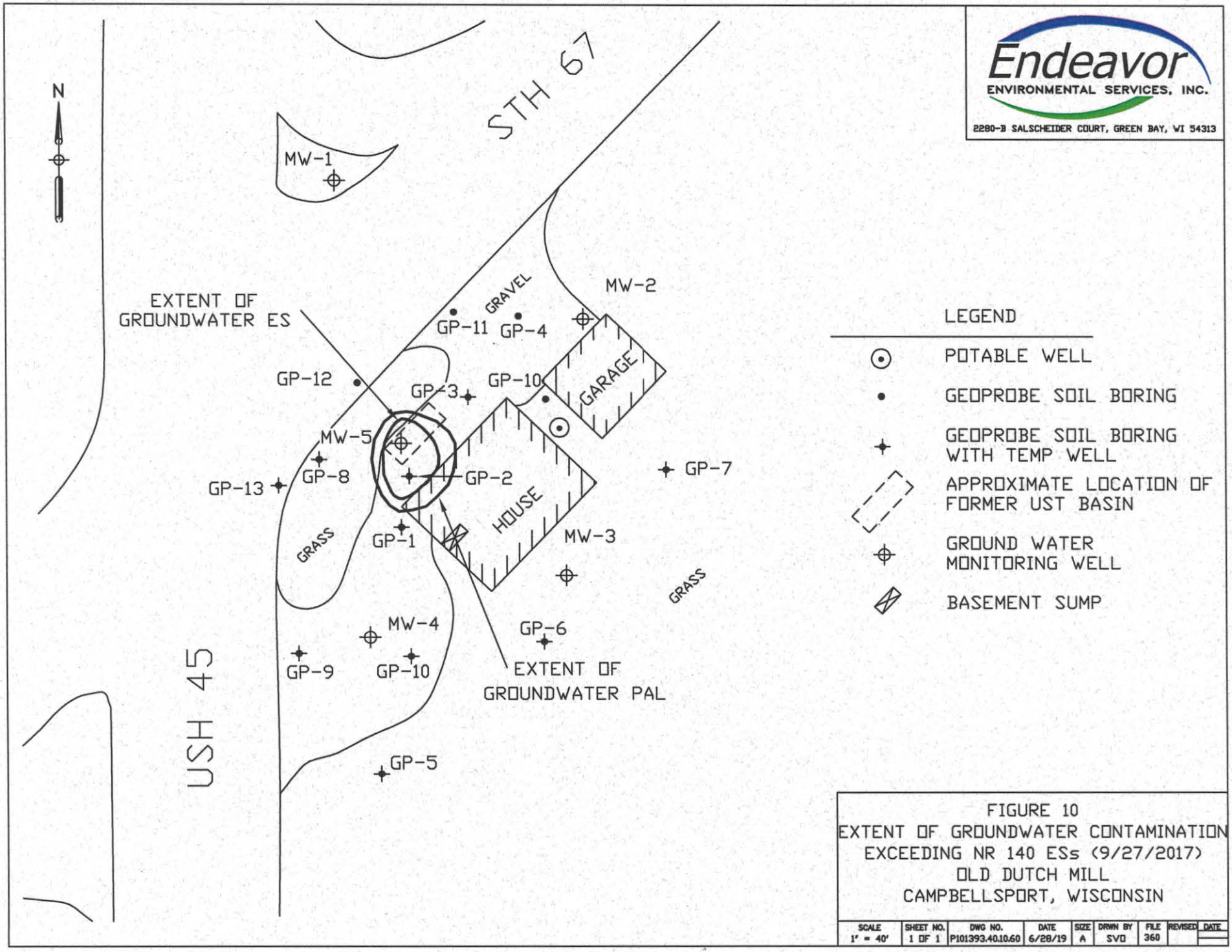
SECTION DETAIL

LEGEND

- LOAMY CLAY
- ASPHALT
- GRAVELLY SAND
- GRAVEL
- GRASS
- SOIL SAMPLE LOCATION
- SOIL CONTAMINATION

FIGURE 8
VERTICAL EXTENT SOIL CONTAMINATION
EXCEEDING CALCULATED RCLs (A-A^1)
OLD DUTCH MILL
CAMBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
SEE NOTE	1 OF 1	P101393.40.8.1	6/28/19	A	SVD	360		



Endeavor
ENVIRONMENTAL SERVICES, INC.
2280-B SALSCHEIDER COURT, GREEN BAY, WI 54313

FIGURE 10
EXTENT OF GROUNDWATER CONTAMINATION
EXCEEDING NR 140 ESs (9/27/2017)
OLD DUTCH MILL
CAMPBELLSPORT, WISCONSIN

SCALE	SHEET NO.	DWG NO.	DATE	SIZE	DRWN BY	FILE	REVISED	DATE
1" = 40'	1 OF 1	P101393.40.10.60	6/28/19	A	SVD	360		

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 reviewed and compared the hydrogeological information, soil and groundwater contaminant concentrations and interpreted extent of the soil and groundwater contaminant plume, to the provided screening criteria. This comparison illustrates that none of the screening criteria are present at the site; therefore, there is minimal risk of vapor intrusion into the existing 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 isolated area of unsaturated petroleum soil contamination is near the exterior northwest corner of the residence. The most recent groundwater sampling event confirmed the lack of an NR140 ES exceedance at the subject property. The basement sump has not reported detections of analyzed petroleum constituents. The site potable well has not reported significant detections of analyzed constituents. Assessment activities have not identified a concern for vapor intrusion to site building or contaminant migration along any known utility corridors. Natural attenuation has had a positive impact on the dissolved contaminant plume at the subject property. Therefore, Endeavor recommends that a closure packet be prepared for the subject property.

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX A

Property Deed

681225
DOCUMENT NO.

STATE BAR OF WISCONSIN FORM 2 – 1982
WARRANTY DEED

RECORDED ... COUNTY
VOL 1477 PAGE 148-149

99 OCT 27 AM 11:14

REGISTER OF DEEDS
FOND DU LAC COUNTY, WI

Edward J. Kreuser, Jr.

conveys and warrants to William L. Ostrander and Tracy R. Ostrander, husband and wife, as survivorship marital property

the following described real estate in Fond du Lac County, State of Wisconsin:

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS

National Exchange Bank and Trust
Fond du lac, Wisconsin 54935

T03-13-19-04-10-007
PARCEL IDENTIFICATION NUMBER

SEE EXHIBIT A

TRANSFER
$ 120.00
FEE

This is (is) (is not) homestead property.

Exception to warranties: easements and restrictions of record, applicable building and zoning ordinances.

Dated this 22 day of October, A.D., 19 99.

_____ (SEAL)
* _____

Edward J. Kreuser Jr. (SEAL)
* Edward J. Kreuser, Jr.

_____ (SEAL)
* _____

_____ (SEAL)
* _____

AUTHENTICATION

Signature(s) _____

authenticated this ____ day of _____, 19____

* _____

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by §706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Attorney Kathryn M. Bullon

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

ACKNOWLEDGMENT

State of Wisconsin, } ss.
Fond du Lac County.

Personally came before me this 22 day of October, 19 99, the above named Edward J. Kreuser, Jr.

to me known to be the person ____ who executed the foregoing instrument and acknowledge the same.

* John J Cooper

Notary Public Fond du Lac County, Wis.
My commission is permanent. (If not, state expiration date: 2/22/2000, 19____.)

* Names of persons signing in any capacity should be typed or printed below their signatures.

EXHIBIT TO WARRANTY DEED
Kreuser to Ostrander

That part of the Northwest 1/4 Southwest 1/4 of Section 4, Township 13 North, Range 19 East, Town of Auburn, Fond du Lac County, Wisconsin, described as follows:

Beginning at a cross mark cut in the concrete paving slab, at the intersection of the center line of USH "45", with the center line of State Trunk Highway No. 67, said point being over the center of a culvert, and at the Southern end of the curve joining said Highway 67 with said USH "45", said point being also 767.80 feet South of the West quarter post of said Section 4; thence assuming the West line of said Northwest Quarter of the Southwest Quarter (NW 1/4 SW 1/4) as a North and South base line and referring all courses to said base line by a transit vernier measurement of angles; running thence North 63 degrees 32 minutes East 83.80 feet to an iron stake; thence North 29 degrees 32 minutes East 200 feet to an iron stake; thence North 48 degrees 42 minutes West 83 feet to the center line of said Highway 67, and meeting said center line at right angles; thence Southwesterly and Southerly along said center line to the place of beginning.

Excepting therefrom that portion conveyed to Fond du Lac County by Deed recorded in Vol. 411 of Deeds on page 230.

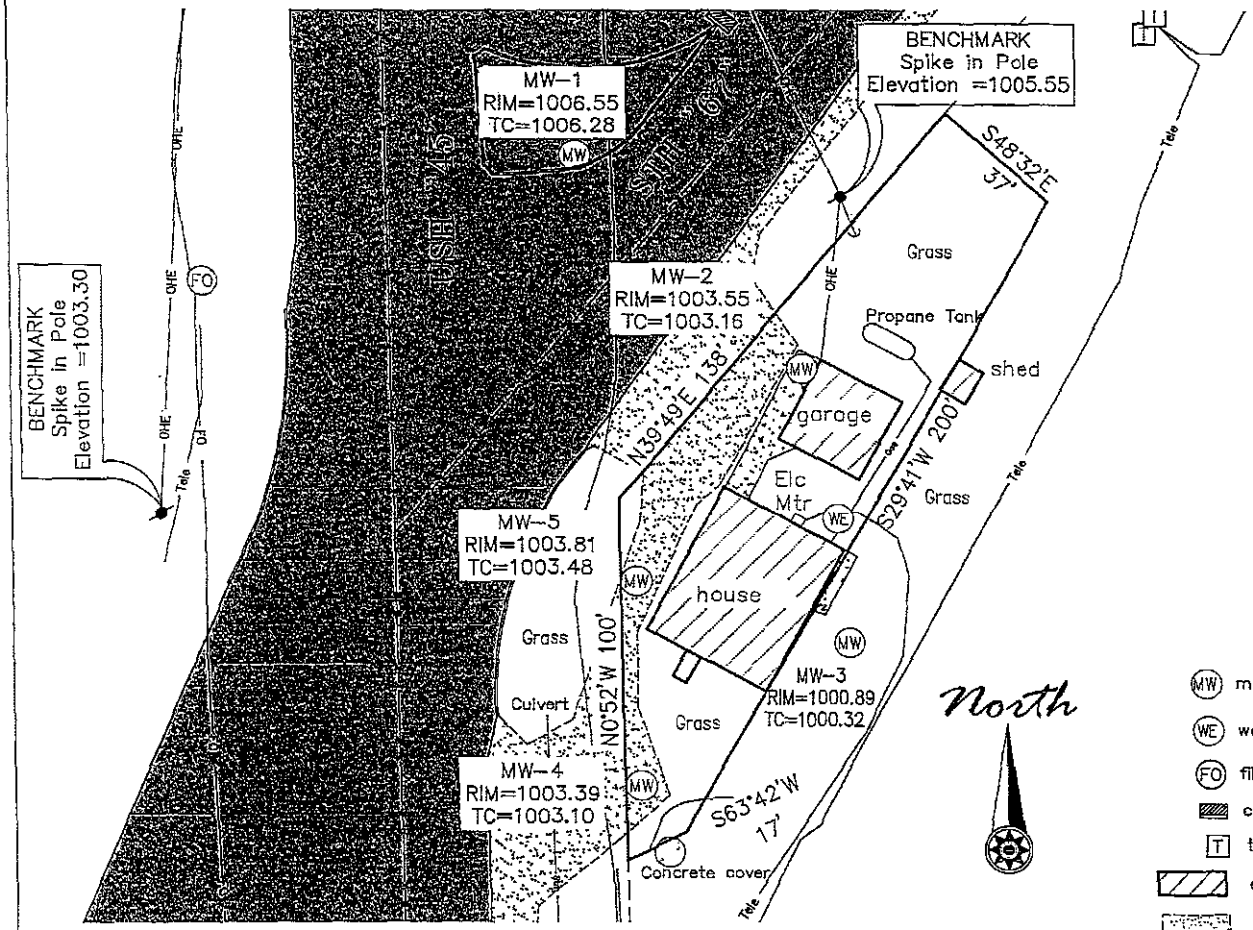
Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX B

Property Survey

Endeavor Environmental Services, Inc.

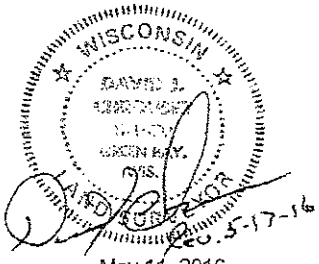
2280-B Salscheider Court
Green Bay, WI 54313



0 40 80 120

Graphic Scale

NW 1/4 of the SW 1/4, Section 4, T13N–R19E
Benchmark & elevations referenced to NAVD88 Elevation Datum. Boundary is approximate.
*Monitoring Well Information:
RIM = Top of flush mount
TC = Top of PVC pipe



May 11, 2016

Legend

- MW monitoring well
- WE well
- FO fiber optic manhole
- curb inlet
- T telephone pedestal
- existing building
- gravel
- Gas underground gas line
- Tele underground telephone line
- FO underground fiber optic line
- power pole
- anchor wire
- OHE overhead wires
- concrete curb & gutter line
- blacktop
- concrete

Mau & Associates
LAND SURVEYING & PLANNING
CIVIL & WATER RESOURCE ENGINEERING
Phone: 920-434-9670 Fax: 920-434-9672

Drawing Number L-9597

Old Dutch Mill

N2271 USH 45 Project P101393.40
Campbellsport, WI May 4, 2016

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX C

WDNR Forms

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 ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-11

Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Cross Soil Samples LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y)	Drilling Method: Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name: GP-11	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	18	N/A	0-2	Gravel				0						
S-2	20		2-4	" brown, loamy clay (4")				0						lab
S-3	24		4-6	"				0						lab
S-4	24		6-8	gray loamy silt				0						lab
S-5	16		8-10	"				0						
S-6	18		10-12	"				0						
				EOB @ 12 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-10	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Spoils LLC	Date Drilling Started: 01/25/2016	Date Drilling Completed: 01/25/2016	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name: GP-10	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	24	N/A	0-2	Gravel (6") brown, loamy clay				0						
S-2	24		2-4	"				0						lab
S-3	20		4-6	"				0						lab
S-4	24		6-8	" 2" weathered bedrock				0.7						lab
S-5	10		8-10	"				—						
S-6	12		10-12	"				—						
				EOB @ 12 ft 6 in										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

Page _____ of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Old Dutch Mill		GP-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Septics LLC	01/25/2016 (m m d d y y y y)	01/25/2016 (m m d d y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	GP-12	_____ Feet MSL	_____ Feet MSL	_____ inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19

Lat ° ' "
Long ° ' "

Local Grid Location
_____ Feet ☐ N _____ Feet ☐ E
_____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	10	N/A	0-2	Topsoil gravel fill				0						
S-2	12		2-4	same				0						16
S-3	8		4-6	brown loamy clay				0.7						11
S-4	10		6-8	fine loamy sand				1.4						11
S-5	12		8-10	same				–						11
S-6	14	↓	10-12	same				–						
				EOB @ 12 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Septics LLC	01/25/2016 (m m d d y y y y)	01/25/2016 (m m d d y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _	GP-13	_____ Feet MSL	_____ Feet MSL	2 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Auburn

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	8	N/A	0-2	Topsoil (5") sand fill (3")				0						
S-2	10		2-4	Same				0						
S-3	24		4-6	gray loamy clay				0.7						1&5
S-4	24		6-8	Loamy, silt				2.2						1&5
S-5	8		8-10	Same				0						
S-6	8		10-12	Same				0						
				EOB @ 12 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-14	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Sples LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name: GP-14	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W	
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19	Long ° ' "		
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	20	N/A	0-2	gravel				1						
S-2	24		2-4	"				1						
S-3	18		4-6	grey, loamy clay				0						1&5
S-4	20		6-8	loamy silt				0						1&5
S-5	20		8-10	same trace sand				0						
S-6	20	↓	10-12	"				0						
				EOB @ 12ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env Services Inc.

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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 ☐ ?

Page ____ of ____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number:	Boring Number: MW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Septics LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016	Drilling Method: HSA
WI Unique Well No.: VQ035	DNR Well ID No.:	Well Name: MW-1	Final Static Water Level: ____ Feet MSL
Surface Elevation: ____ Feet MSL	Borehole Diameter: 6.25 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane ____ N, ____ E — NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19	Lat ° ' " — Long ° ' "	Local Grid Location: ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W	
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	20	NA	0-2	Topsoil gravel				–						
S-2	24		2-4	gravel				–						
S-3	16		4-6	brown, loamy clay				0						
S-4	18		6-8	"				0						
S-5	18		8-10	"				–						
S-6	18	↓	10-12	" lace sand				–						
				Earth drill 12-13.5 ft EOB @ 13.5 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env Services Inc.

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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 ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: MW-2
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Slope LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y) — Drilling Method: HSA
WI Unique Well No.: VP036 — DNR Well ID No.: — Well Name: MW-2	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL — Borehole Diameter: 6.25 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19		
Facility ID	County: Fond du Lac	County Code: 20 — Civil Town/City/ or Village: Auburn

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Soil Properties: Moisture Content	Soil Properties: Liquid Limit	Soil Properties: Plasticity Index	Soil Properties: P 200	RQD/ Comments
				Earth drill to 13.5 ftbgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env Services Inc.

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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 ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: MW-3	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Septics LLC	Date Drilling Started: 01/25/2016	Date Drilling Completed: 01/25/2016	Drilling Method: HSA
WI Unique Well No.: VV037	DNR Well ID No.:	Well Name: MW-3	Final Static Water Level: ____ Feet MSL
Surface Elevation: ____ Feet MSL	Borehole Diameter: ____ inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane ____ N, ____ E	Lat ° ' " — Long ° ' "	Local Grid Location: ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W	
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19			
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	16	NA	0-2	Topsoil/ dark brown loamy clay				0						
S-2	18		2-4	Same				0						
S-3	20		4-6	weathered bedrock				—						
S-4	24		6-8	"				—						
S-5	24		8-10	"				—						
S-6	24		10-12	"				—						
				Earth drill 2-13.5ft bgs EOB @ 13.5ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env Services Inc.

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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 ☐ _____

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: MW-4	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Cross Soil & Septic LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016	Drilling Method: HSA
WI Unique Well No.	DNR Well ID No.	Well Name: MW-4	Final Static Water Level: _____ Feet MSL
Surface Elevation: _____ Feet MSL	Borehole Diameter: 6.25 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19			
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth drill to 13.5 Hbgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: Endeavor Env Services Inc.

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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 ☐ ?

Page _____ of _____

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Old Dutch Mill		MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Prentice Firm: Geiss Soil Styles LLC	01/25/2016 (m m d d y y y y)	01/25/2016 (m m d d y y y y)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _ _	_ _ _ _	MW-5	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19

Lat ° ' "
Long ° ' "

Local Grid Location ☐ N ☐ E
_____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth drill @ 13.5ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env Services Inc.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Dutch Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐	Wis. Unique Well No.: VC035 / DNR Well ID No.: _____
Facility ID: _____	Lat. ° ' " Long. ° ' " or	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well: Well Code _____ / _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Slope LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	
	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1006.55 ft. MSL

B. Well casing, top elevation 1006.28 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3.0 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

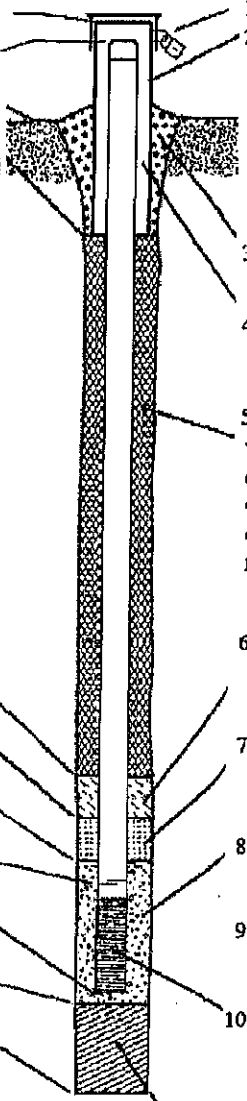
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env. Services Inc.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Dutch Mill	Local Grid Location of Well ☐ N. ☐ S. ____ ft. ☐ E. ☐ W. ____ ft.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ____ ° ____ ' ____ " Long. ____ ° ____ ' ____ " or	Wis. Unique Well No.: VJ036 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 02/25/2016 (m m d d y y y y)
Type of Well: Well Code ____ / ____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒ E ☐ W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil Solutions LLC
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation 1003.55 ft. MSL

B. Well casing, top elevation 1003.16 ft. MSL

C. Land surface elevation ____ ft. MSL

D. Surface seal, bottom ____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top ____ ft. MSL or 0.5 ft.

F. Fine sand, top ____ ft. MSL or 2.0 ft.

G. Filter pack, top ____ ft. MSL or 2.5 ft.

H. Screen joint, top ____ ft. MSL or 2.5 ft.

I. Well bottom ____ ft. MSL or 12.5 ft.

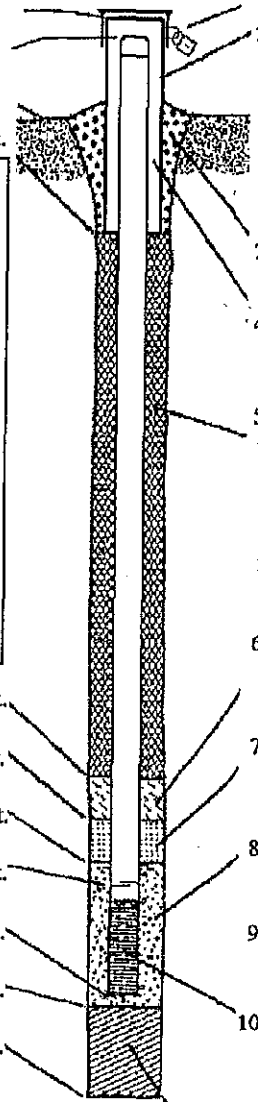
J. Filter pack, bottom ____ ft. MSL or 13.5 ft.

K. Borehole, bottom ____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ____ in.
b. Length: ____ ft.
c. Material: Steel ☒ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: ____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. ____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. ____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐ 1/4 in. ☒ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. ____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. ____
b. Volume added ____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: ____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer ____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env. Services Inc.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ ____________

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

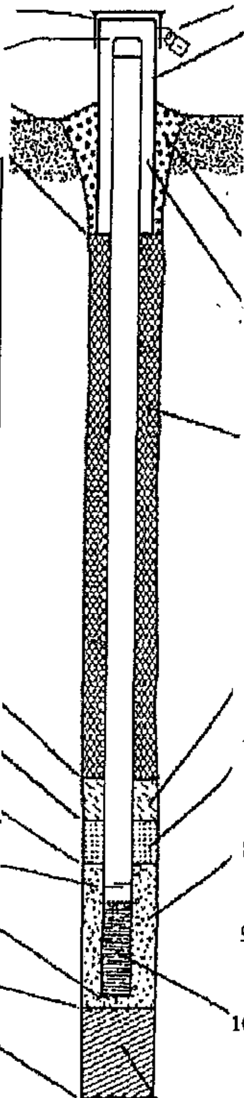
Facility/Project Name: Old Dutch Mill	Local Grid Location of Well ______ ft. ☐N. ☐S. ______ ft. ☐E. ☐W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ___°___'___" Long. ___°___'___" or	Wis. Unique Well No.: VØ037 / DNR Well ID No.
Facility ID	St. Plane ______ ft. N, ______ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well / Well Code ___/___	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil & Samples LLC
Distance from Waste/Source ______ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient, s ☐ Sidegradient, d ☐ Downgradient, n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation 1000.89 ft. MSL

B. Well casing, top elevation 1000.32 ft. MSL

C. Land surface elevation ______ ft. MSL

D. Surface seal, bottom ______ ft. MSL or ______ ft.



12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 5 0; Hollow Stem Auger ☒ 4 1; Other ☐

15. Drilling fluid used: Water ☐ 0 2; Air ☐ 0 1; Drilling Mud ☐ 0 3; None ☒ 9 9

16. Drilling additives used? ☐ Yes ☒ No

Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top ______ ft. MSL or 0.5 ft.

F. Fine sand, top ______ ft. MSL or 2.5 ft.

G. Filter pack, top ______ ft. MSL or 3.0 ft.

H. Screen joint, top ______ ft. MSL or 3.0 ft.

I. Well bottom ______ ft. MSL or 13.0 ft.

J. Filter pack, bottom ______ ft. MSL or 13.5 ft.

K. Borehole, bottom ______ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.

1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
   a. Inside diameter: ___ in.
   b. Length: ___ ft.
   c. Material: Steel ☒ 0 4; Other ☐
   d. Additional protection? ☐ Yes ☒ No
   If yes, describe: ______

3. Surface seal: Bentonite ☐ 3 0; Concrete ☒ 0 1; Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 3 0; Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 3 3
   b. ____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 3 5
   c. ____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 3 1
   d. ____ % Bentonite . . . . . . Bentonite-cement grout ☐ 5 0
   e. ____ Ft^3 volume added for any of the above
   f. How installed: Tremie ☐ 0 1; Tremie pumped ☐ 0 2; Gravity ☒ 0 8

6. Bentonite seal: a. Bentonite granules ☐ 3 3
   b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 3 2
   c. ______ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
   a. ______
   b. Volume added ______ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
   a. ______
   b. Volume added ______ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 2 3; Flush threaded PVC schedule 80 ☐ 2 4; Other ☐

10. Screen material: ______
   a. Screen type: Factory cut ☒ 1 1; Continuous slot ☐ 0 1; Other ☐
   b. Manufacturer ______
   c. Slot size: 0.01 in.
   d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 1 4; Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] | Firm: Endeavor Env. 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Dutch Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. / _____ ft. ☐E. ☐W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VP038 / DNR Well ID No.: _____
Facility ID: _____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well / Well Code: _____ / _____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil Solns LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1003.49 ft. MSL

B. Well casing, top elevation 1003.10 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3.0 ft.

H. Screen joint, top _____ ft. MSL or 5.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

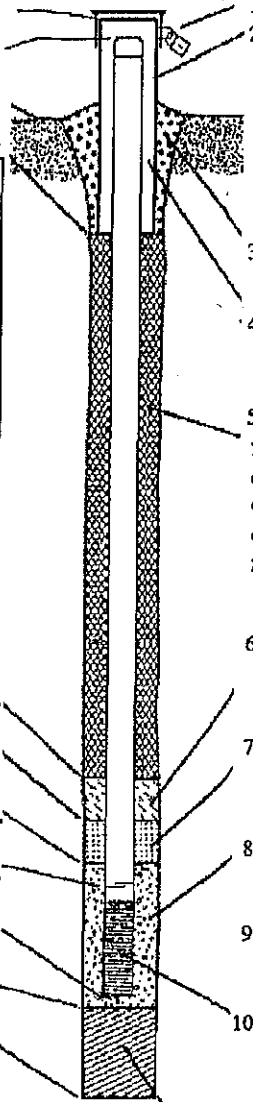
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: _____ in.
b. Length: _____ ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env. 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Outek Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VB039 / DNR Well ID No.: ____
Facility ID: ____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well: Well Code ____ / ____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice, Geiss Soil Sampling LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation 1003.81 ft. MSL

B. Well casing, top elevation 1003.48 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
Other ☐ _____

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 2.5 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

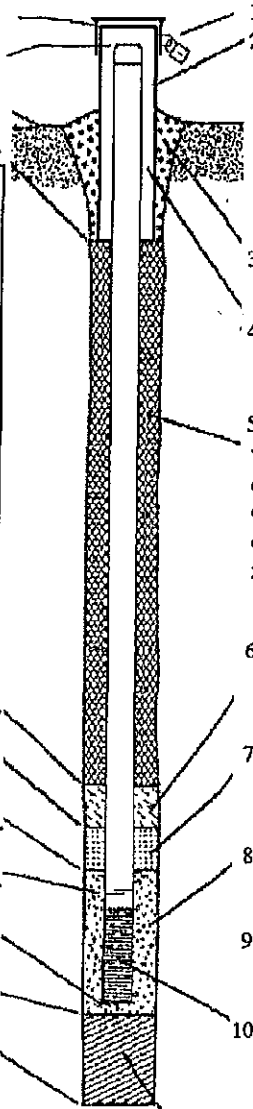
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☒ 04
Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☒ 01
Other ☐ _____

4. Material between well casing and protective pipe:
Bentonite ☒ 30
Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23
Flush threaded PVC schedule 80 ☐ 24
Other ☐ _____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11
Continuous slot ☐ 01
Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14
Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: Endeavor Env. 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.

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX A

Property Deed

681225
DOCUMENT NO.

STATE BAR OF WISCONSIN FORM 2 – 1982
WARRANTY DEED

RECEIVED ... COPY
VOL 1477 PAGE 148-149

99 OCT 27 AM 11:14

RE... FOND ... COUNTY, WI

Edward J. Kreuser, Jr.

conveys and warrants to William L. Ostrander and Tracy R. Ostrander, husband and wife, as survivorship marital property

the following described real estate in Fond du Lac County, State of Wisconsin:

THIS SPACE RESERVED FOR RECORDING DATA

NAME AND RETURN ADDRESS

National Exchange Bank and Trust
Fond du lac, Wisconsin 54935

T03-13-19-04-10-007
PARCEL IDENTIFICATION NUMBER

SEE EXHIBIT A

TRANSFER
$ 120.00
FEE

This is (is) (is not) homestead property.

Exception to warranties: easements and restrictions of record, applicable building and zoning ordinances.

Dated this 22 day of October, A.D., 19 99.

Edward J. Kreuser Jr. (SEAL)
* Edward J. Kreuser, Jr.

(SEAL)
*

(SEAL)
*

(SEAL)
*

AUTHENTICATION

Signature(s)

authenticated this ____ day of ____, 19____

*

TITLE: MEMBER STATE BAR OF WISCONSIN
(If not, authorized by §706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY
Attorney Kathryn M. Bullon

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

ACKNOWLEDGMENT

State of Wisconsin, } ss.
Fond du Lac County.

Personally came before me this 22 day of October, 19 99, the above named Edward J. Kreuser, Jr.

to me known to be the person ____ who executed the foregoing instrument and acknowledge the same.

JOHN J. Cooper
*

Notary Public Fond du Lac County, Wis.
My commission is permanent. (If not, state expiration date: 2/27/2000, 19____.)

* Names of persons signing in any capacity should be typed or printed below their signatures.

EXHIBIT TO WARRANTY DEED
Kreuser to Ostrander

That part of the Northwest 1/4 Southwest 1/4 of Section 4, Township 13 North, Range 19 East, Town of Auburn, Fond du Lac County, Wisconsin, described as follows:

Beginning at a cross mark cut in the concrete paving slab, at the intersection of the center line of USH "45", with the center line of State Trunk Highway No. 67, said point being over the center of a culvert, and at the Southern end of the curve joining said Highway 67 with said USH "45", said point being also 767.80 feet South of the West quarter post of said Section 4; thence assuming the West line of said Northwest Quarter of the Southwest Quarter (NW 1/4 SW 1/4) as a North and South base line and referring all courses to said base line by a transit vernier measurement of angles; running thence North 63 degrees 32 minutes East 83.80 feet to an iron stake; thence North 29 degrees 32 minutes East 200 feet to an iron stake; thence North 48 degrees 42 minutes West 83 feet to the center line of said Highway 67, and meeting said center line at right angles; thence Southwesterly and Southerly along said center line to the place of beginning.

Excepting therefrom that portion conveyed to Fond du Lac County by Deed recorded in Vol. 411 of Deeds on page 230.

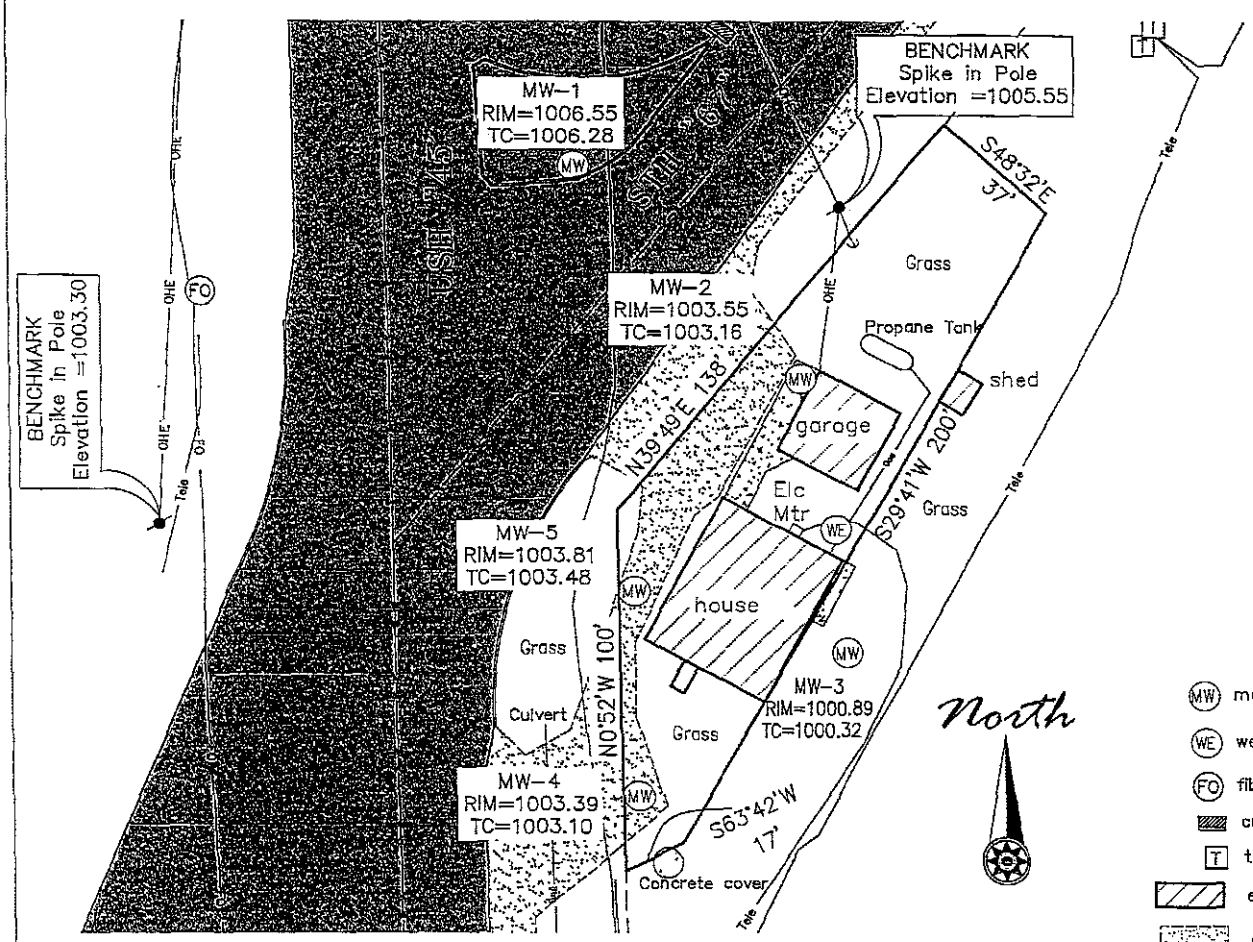
Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX B

Property Survey

Endeavor Environmental Services, Inc.

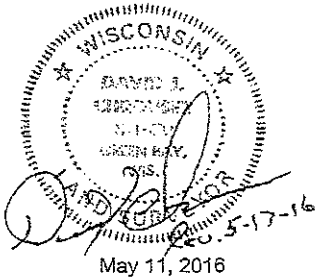
2280-B Salscheider Court
Green Bay, WI 54313



0 40 80 120

Graphic Scale

NW 1/4 of the SW 1/4, Section 4, T13N–R19E
Benchmark & elevations referenced to NAVD88 Elevation Datum. Boundary is approximate.
*Monitoring Well Information:
RIM = Top of flush mount
TC = Top of PVC pipe



May 11, 2016

Legend

MW monitoring well	Gas underground gas line
WE well	Tele underground telephone line
FO fiber optic manhole	FO underground fiber optic line
curb inlet	power pole
T telephone pedestal	anchor wire
existing building	OHE overhead wires
gravel	concrete curb & gutter line
	blacktop
	concrete

Mau & Associates
LAND SURVEYING & PLANNING
CIVIL & WATER RESOURCE ENGINEERING
Phone: 920-434-9670 Fax: 920-434-9672

Drawing Number: L-9597

Old Dutch Mill

N2271 USH 45 Project P101393.40
Campbellsport, WI May 4, 2016

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX C

WDNR Forms

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 ☐

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-11
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Septics LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name: GP-11 — Final Static Water Level: _____ Feet MSL — Surface Elevation: _____ Feet MSL — Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
Facility ID	County: Fond du Lac	County Code: 20 — Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	18	N/A	0-2	Gravel				0						
S-2	20		2-4	" brown, loamy clay (4")				0						lab
S-3	24		4-6	"				0						lab
S-4	24		6-8	gray loamy silt				0						lab
S-5	16		8-10	"				0						
S-6	18		10-12	"				0						
				EOB @ 12 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-10	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Septics LLC	Date Drilling Started: 01/25/2016	Date Drilling Completed: 01/25/2016	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name: GP-10	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E — NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn		

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	24	N/A	0-2	Gravel (6") brown, loamy clay				0						
S-2	24		2-4	"				0						lab
S-3	20		4-6	"				0						lab
S-4	24		6-8	" 2" weathered bedrock				0.7						lab
S-5	10		8-10	"				—						
S-6	12		10-12	"				—						
				EOB @ 12ft 6in										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Septics LLC	01/25/2016 (m m d d y y y y)	01/25/2016 (m m d d y y y y)	Geoprobe

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
_ _ _ _ _ _	_ _ _ _	GP-12	_____ Feet MSL	_____ Feet MSL	_____ inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	10	N/A	0-2	Topsoil Gravel fill				0						
S-2	12		2-4	Same				0						16
S-3	8		4-6	Brown loamy clay				0.7						11
S-4	10		6-8	Fine loamy sand				1.4						11
S-5	12		8-10	Same				–						11
S-6	14	↓	10-12	Same				–						
				EOB @ 12 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env 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

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-13	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Sples LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y)	Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name: GP-13	
Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 2 inches	
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19			
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	8	N/A	0-2	Topsoil (5") Sand fill (3")				0						
S-2	10		2-4	Same				0						
S-3	24		4-6	Gray loamy clay				0.7						1&5
S-4	24		6-8	Loamy, silt				2.2						1&5
S-5	8		8-10	Same				0						
S-6	8		10-12	Same				0						
				EOB @ 12ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Env Services Inc.

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State of Wisconsin
Department of Natural Resources

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: GP-14
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Septics LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y) — Drilling Method: Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name: GP-14 — Final Static Water Level: _____ Feet MSL — Surface Elevation: _____ Feet MSL — Borehole Diameter: 2 inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19		
Facility ID	County: Fond du Lac — County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	20	N/A	0-2	gravel				1						
S-2	24		2-4	"				-						
S-3	18		4-6	gray, loamy clay				0						1&5
S-4	20		6-8	loamy silt				0						1&5
S-5	20		8-10	same trace sand				0						
S-6	20		10-12	"				0						
				EOB @ 12 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Env Services Inc.

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State of Wisconsin
Department of Natural Resources

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: MW-1	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Cross Soil & Spills LLC	Date Drilling Started: 01/25/2016	Date Drilling Completed: 01/25/2016	Drilling Method: HSA
WI Unique Well No.: VQ035	DNR Well ID No.:	Well Name: MW-1	Final Static Water Level: ____ Feet MSL
Surface Elevation: ____ Feet MSL	Borehole Diameter: 6.25 inches		
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane ____ N, ____ E	Lat ° ' "	Long ° ' "	Local Grid Location: ____ Feet ☐ N ☐ S ____ Feet ☐ E ☐ W
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19			
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	20	NA	0-2	Topsoil gravel				1						
S-2	24		2-4	gravel				1						
S-3	16		4-6	brown, loamy clay				0						
S-4	18		6-8	"				0						
S-5	18		8-10	"				1						
S-6	18	↓	10-12	" lace sand				1						
				Earth drill 12-13.5 ft EOB @ 13.5 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: _____ Firm: Endeavor Env Services Inc.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ _____

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number:	Boring Number: MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
First Name: Darrin Last Name: Prentice Firm: Geiss Soil & Septics LLC	01/25/2016 (m m d d y y y y)	01/25/2016 (m m d d y y y y)	HSA

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VP036	_ _ _	MW-2	_____ Feet MSL	_____ Feet MSL	6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19

Lat ° ' "
Long ° ' "

Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County	County Code	Civil Town/City/ or Village
	Fond du Lac	20	Auburn

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth drill to 13.5 ftbgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env Services Inc.

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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 ☐ _____

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: MW-3	
Boring Drilled By: Name of crew chief (first, last) and Firm — First Name: Darrin Last Name: Prentice — Firm: Geiss Soil & Septics LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016	Drilling Method: HSA
WI Unique Well No.: VP037 — DNR Well ID No.: — — — — — Well Name: HSA	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: _____ inches
Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐ — State Plane _____ N, _____ E	Lat ° ' " — Long ° ' "	Local Grid Location: _____ Feet ☐ N ☐ S _____ Feet ☐ E ☐ W	
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19			
Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
S-1	16	NA	0-2	Topsoil/ dark brown loamy clay				0						
S-2	18		2-4	Same				0						
S-3	20		4-6	weathered bedrock				—						
S-4	24		6-8	"				—						
S-5	24		8-10	"				—						
S-6	24	↓	10-12	"				—						
				Earth drill 2-13.5ft bgs EOB @ 13.5ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env Services Llc.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number:	Boring Number: MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Griss Soil & Septics LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y)	Drilling Method: HSA

WI Unique Well No.	DNR Well ID No.	Well Name: MW-4	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W

Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample: Number and Type	Sample: Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth drill to 13.5 Hbs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env Services Inc.

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

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Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Revelopment ☐ Other ☐ ?

Page _____ of _____

Facility/Project Name: Old Dutch Mill	License/Permit/Monitoring Number	Boring Number: MW-5

Boring Drilled By: Name of crew chief (first, last) and Firm First Name: Darrin Last Name: Prentice Firm: Geiss Soil Surveys LLC	Date Drilling Started: 01/25/2016 (m m d d y y y y)	Date Drilling Completed: 01/25/2016 (m m d d y y y y)	Drilling Method: HSA

WI Unique Well No.	DNR Well ID No.	Well Name: MW-5	Final Static Water Level: _____ Feet MSL	Surface Elevation: _____ Feet MSL	Borehole Diameter: 6.25 inches

Local Grid Origin ☐ (estimated: ☐) or Boring Location ☐
State Plane _____ N, _____ E
Lat ° ' "
Long ° ' "
Local Grid Location ☐ N ☐ E _____ Feet ☐ S _____ Feet ☐ W
NW 1/4 of SW 1/4 of Section 4, T 13 N, R 19

Facility ID	County: Fond du Lac	County Code: 20	Civil Town/City/ or Village: Auburn

Sample Number and Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth in Feet (Below ground surface)	Soil/Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				Earth drill @ 3.5 ft bgs										

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env Services Inc.

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State of Wisconsin
Department of Natural Resources

Route to: Watershed/Wastewater ☐ Waste Management ☐ Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Outek Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VQ035 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil & Stone LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1006.55 ft. MSL

B. Well casing, top elevation 1006.28 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3.0 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

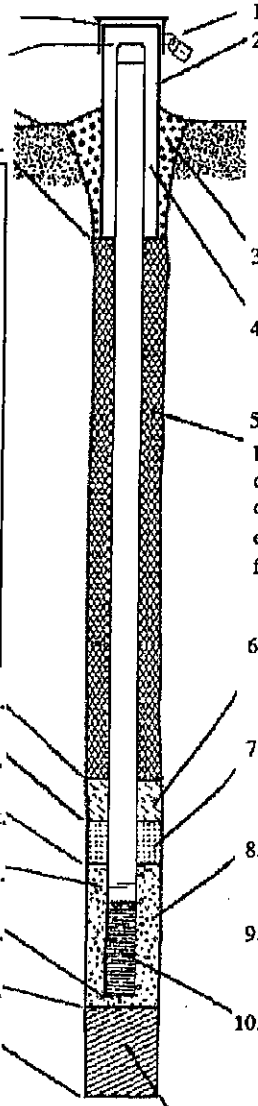
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env. 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Old Dutch Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VJ036 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well / Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil Solutions LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1003.55 ft. MSL
B. Well casing, top elevation 1003.16 ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

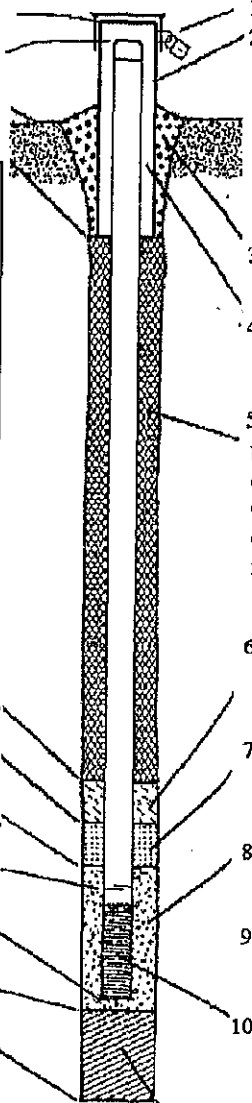
14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.
F. Fine sand, top _____ ft. MSL or 2.0 ft.
G. Filter pack, top _____ ft. MSL or 2.5 ft.
H. Screen joint, top _____ ft. MSL or 2.5 ft.
I. Well bottom _____ ft. MSL or 12.5 ft.
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.
K. Borehole, bottom _____ ft. MSL or 13.5 ft.
L. Borehole, diameter 6.25 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: _____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm: Endeavor Env. 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Old Dutch Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S., _____ ft. ☐E. ☐W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VP037 / DNR Well ID No.: ____
Facility ID: ____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Dacria Prentice, Geiss Soil Solutions LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: ____

A. Protective pipe, top elevation 1000.89 ft. MSL
B. Well casing, top elevation 1000.32 ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☒ 41
_____ Other ☐

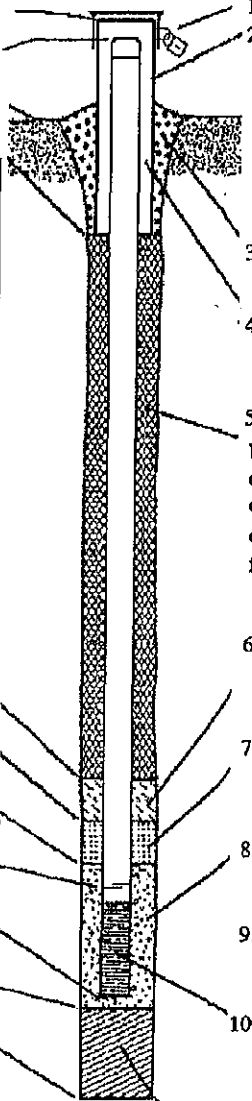
15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.
F. Fine sand, top _____ ft. MSL or 2.5 ft.
G. Filter pack, top _____ ft. MSL or 3.0 ft.
H. Screen joint, top _____ ft. MSL or 3.0 ft.
I. Well bottom _____ ft. MSL or 13.0 ft.
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.
K. Borehole, bottom _____ ft. MSL or 13.5 ft.
L. Borehole, diameter 6.25 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: _____ Steel ☒ 04 Other ☐
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____
3. Surface seal: _____ Bentonite ☐ 30 Concrete ☒ 01 Other ☐
4. Material between well casing and protective pipe: _____ Bentonite ☒ 30 Other ☐
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 Tremie pumped ☐ 02 Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐
7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 Flush threaded PVC schedule 80 ☐ 24 _____ Other ☐
10. Screen material: _____
a. Screen type: Factory cut ☒ 11 Continuous slot ☐ 01 _____ Other ☐
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.
11. Backfill material (below filter pack): _____ None ☒ 14 Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: [signature] Firm: Endeavor Env. 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 those 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

Facility/Project Name: Old Outer Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. / _____ ft. ☐E. ☐W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VP038 / DNR Well ID No.:
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well / Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil Scales LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1003.49 ft. MSL

B. Well casing, top elevation 1003.10 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3.0 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

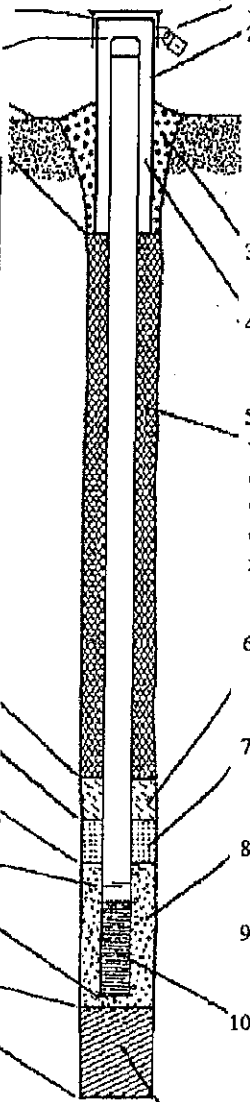
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Enclaver Env. 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Outlet Mill	Local Grid Location of Well: _____ ft. ☐N. ☐S. / _____ ft. ☐E. ☐W.	Well Name: MW-5
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VB039 / DNR Well ID No.: ____
Facility ID: ____	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well: Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4, T. 13 N, R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Darrin Prentice / Geiss Soil Supply LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation 1003.81 ft. MSL

B. Well casing, top elevation 1003.48 ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or ____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50 / Hollow Stem Auger ☒ 41 / Other ☐ ____

15. Drilling fluid used: Water ☐ 02 / Air ☐ 01 / Drilling Mud ☐ 03 / None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or 2.0 ft.

G. Filter pack, top _____ ft. MSL or 2.5 ft.

H. Screen joint, top _____ ft. MSL or 3.0 ft.

I. Well bottom _____ ft. MSL or 13.0 ft.

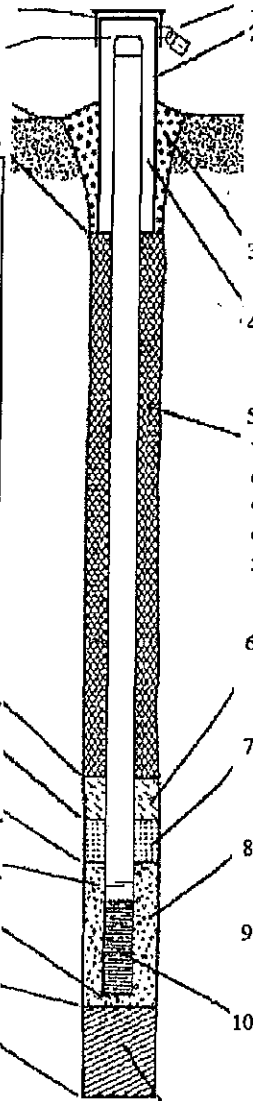
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6.25 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.06 in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☒ 04 / Other ☐ ____
d. Additional protection? ☐ Yes ☒ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30 / Concrete ☒ 01 / Other ☐ ____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☒3/8 in. ☐1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ____

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ____

10. Screen material: _____
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ____
b. Manufacturer _____
c. Slot size: 0.01 in.
d. Slotted length: 10.0 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ____

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env. 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

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☐ Other ☐ _____

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Old Dutch Mill	Local Grid Location of Well _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: GP-13 Temp
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No. / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 01/25/2016 (m m d d y y y y)
Type of Well Well Code ____/____	Section Location of Waste/Source: NW 1/4 of SW 1/4 of Sec. 4 T. 13 N. R. 19 ☒E ☐W	Well Installed By: Name (first, last) and Firm: Dana Prentice, Geiss Soil Sples LLC
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or _____ ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☒ CH ☐
Bedrock ☐

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☐ 50
Hollow Stem Auger ☐ 41
Geoprobe Other ☒

15. Drilling fluid used: Water ☐ 02 Air ☐ 01
Drilling Mud ☐ 03 None ☒ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe N/A

17. Source of water (attach analysis, if required):
N/A

E. Bentonite seal, top _____ ft. MSL or 0.5 ft.

F. Fine sand, top _____ ft. MSL or _____ ft.

G. Filter pack, top _____ ft. MSL or 7.0 ft.

H. Screen joint, top _____ ft. MSL or 2.0 ft.

I. Well bottom _____ ft. MSL or 12.0 ft.

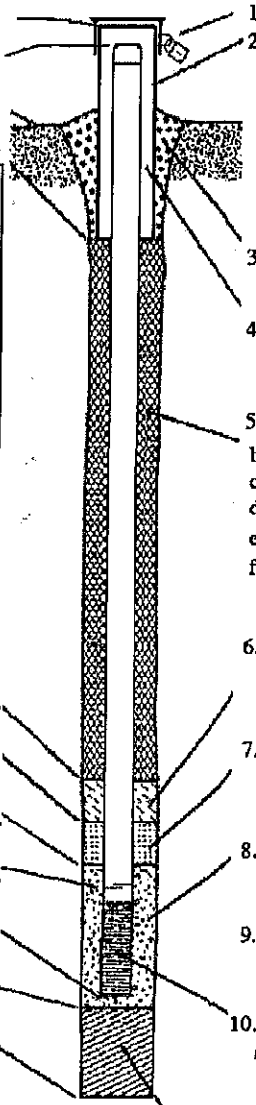
J. Filter pack, bottom _____ ft. MSL or 12.0 ft.

K. Borehole, bottom _____ ft. MSL or 12.0 ft.

L. Borehole, diameter 2.0 in.

M. O.D. well casing 1.0 in.

N. I.D. well casing _____ in.



1. Cap and lock? ☐ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: ___ in.
b. Length: ___ ft.
c. Material: Steel ☐ 04
Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☐ 30
Concrete ☐ 01
Other ☐

4. Material between well casing and protective pipe:
Bentonite ☐ 30
Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☐ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01
Tremie pumped ☐ 02
Gravity ☐ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☐1/4 in. ☐3/8 in. ☐1/2 in. Bentonite chips ☐ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. _____
b. Volume added _____ ft^3

9. Well casing: Flush threaded PVC schedule 40 ☐ 23
Flush threaded PVC schedule 80 ☐ 24
_____ Other ☐

10. Screen material: _____
a. Screen type: Factory cut ☐ 11
Continuous slot ☐ 01
_____ Other ☐
b. Manufacturer _____
c. Slot size: 0.___ in.
d. Slotted length: ___ ft.

11. Backfill material (below filter pack): None ☐ 14
_____ Other ☐

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature _____ Firm Endeavor Env. Servs 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 Wis., Dept. of Natural Resources
dnr.wi.gov

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County: Fond du Lac
WI Unique Well # of Removed Well:
Hicap #:
Latitude / Longitude (see instructions): _____ N _____ W
Format Code: ☐ DD ☐ DDM
Method Code: ☐ GPS008 ☐ SCR002 ☐ OTH001
¼ / ¼: NW ¼: SW
or Gov't Lot #:
Section: 4
Township: 13 N
Range: 19 ☒ E ☐ W
Well Street Address: N2271 US Hwy 45
Well City, Village or Town: Auburn
Well ZIP Code: 53010
Subdivision Name:
Lot #:
Reason for Removal from Service: Temporary borings
WI Unique Well # of Replacement Well:

2. Facility / Owner Information

Facility Name: Old Dutch Mill
Facility ID (FID or PWS):
License/Permit/Monitoring #: GP-10
Original Well Owner: Tracy & William Ostrander
Present Well Owner: Same
Mailing Address of Present Owner: N2271 US Hwy 45
City of Present Owner: Campbellsport
State: WI
ZIP Code: 53010

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole
Original Construction Date (mm/dd/yyyy): 01/25/2016
If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.): 12.0
Casing Diameter (in.): N/A
Lower Drillhole Diameter (in.): 2.0
Casing Depth (ft.): N/A
Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown
If yes, to what depth (feet)?
Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

Material	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" chipped bentonite	Surface	12	0.26	100%

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing: Endeavor Env. Services Inc.
License #:
Date of Filling & Sealing or Verification (mm/dd/yyyy): 01/25/2016
Street or Route: 2280-B Satscheider Court
Telephone Number: (920) 437-2997
City: Green Bay
State: WI
ZIP Code: 54313
Signature of Person Doing Work:
Date Signed: 01/30/2016

DNR Use Only
Date Received:
Noted By:
Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 and Seal**

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other: _____

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond du Lac		

Latitude / Longitude (see instructions)	Format Code	Method Code
_____ N	☐ DD	☐ GPS008
_____ W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range	or Gov't Lot #
NW	SW	4	13 N	19 ☒ E ☐ W	

Well Street Address: N2271 US Hwy 45

Well City, Village or Town	Well ZIP Code
Auburn	53010

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary borings	

2. Facility / Owner Information

Facility Name: Old Ditch Mill

Facility ID (FID or PWS):

License/Permit/Monitoring #: GP-11

Original Well Owner: Tracy : William Ostrander

Present Well Owner: Same

Mailing Address of Present Owner: N2271 US Hwy 45

City of Present Owner	State	ZIP Code
Campbellsport	WI	53010

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/25/2016

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12.0	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	N/A

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" chipped bentonite	Surface	12.0	0.26	NDE

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Endeavor Env. Services Inc.		01/25/2016

Street or Route	Telephone Number
2280-B Satscheider Court	(920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313		01/30/2016

DNR Use Only

Date Received	Noted By

Comments:

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, 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 and Seal

Route to DNR Bureau:
☐ Drinking Water ☐ Watershed/Wastewater ☐ Remediation/Redevelopment
☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hlcap #
Fond du Lac		

Latitude / Longitude (see instructions)	Format Code	Method Code
N	☐ DD	☐ GPS008
W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	4	13 N	19 ☒ E ☐ W

or Gov't Lot #

Well Street Address: N2271 US Hwy 45

Well City, Village or Town	Well ZIP Code
Auburn	53010

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary borings	

2. Facility / Owner Information

Facility Name: Old Dutch Mill

Facility ID (FID or PWS):

License/Permit/Monitoring #: GP-12

Original Well Owner: Tracy : William Ostrander

Present Well Owner: Same

Mailing Address of Present Owner: N2271 US Hwy 45

City of Present Owner	State	ZIP Code
Campbellsport	WI	53010

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/25/2016

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12.0	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	N/A

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
☐ Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" Chipped bentonite	Surface	12.0	0.26	100#

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Endeavor Env. Services Inc.		01/25/2016

Street or Route	Telephone Number
2280-B Satscheider Court	(920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313		01/30/2016

DNR Use Only

Date Received	Noted By

Comments

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

Well / Drillhole / Borehole Filling & Sealing Report

Form 3300-005 (R 4/2015)

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☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
Fond du Lac		

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N	☐ DD	☐ GPS008
W	☐ DDM	☐ SCR002 ☐ OTH001

¼ / ¼	¼	Section	Township	Range
NW	SW	4	13 N	19 ☒ E ☐ W

or Gov't Lot #

Well Street Address: N2271 US Hwy 45

Well City, Village or Town	Well ZIP Code
Auburn	53010

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary borings	

2. Facility / Owner Information

Facility Name: Old Dutch Mill

Facility ID (FID or PWS):

License/Permit/Monitoring #: GP-14

Original Well Owner: Tracy : William Ostrander

Present Well Owner: Same

Mailing Address of Present Owner: N2271 US Hwy 45

City of Present Owner	State	ZIP Code
Campbellsport	WI	53010

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☒ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 01/25/2016

If a Well Construction Report is available, please attach.

Construction Type:
☐ Drilled ☐ Driven (Sandpoint) ☐ Dug
☒ Other (specify): Geoprobe

Formation Type:
☒ Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
12	N/A

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
2.0	N/A

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	☐ Yes	☐ No	☒ N/A
Liner(s) removed?	☐ Yes	☐ No	☒ N/A
Liner(s) perforated?	☐ Yes	☐ No	☒ N/A
Screen removed?	☐ Yes	☐ No	☒ N/A
Casing left in place?	☐ Yes	☐ No	☒ N/A
Was casing cut off below surface?	☐ Yes	☐ No	☒ N/A
Did sealing material rise to surface?	☒ Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	☒ No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	☒ N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	☐ Yes	☐ No	☒ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☒ Other (Explain): Gravity

Sealing Materials
☐ Neat Cement Grout ☐ Concrete
☐ Sand-Cement (Concrete) Grout ☒ Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:
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☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
3/8" chipped bentonite	Surface	12.0	0.26	100 g

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Endeavor Env. Services Inc.		01/25/2016

Street or Route	Telephone Number
2280-B Satscheider Court	(920) 437-2997

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Green Bay	WI	54313		01/30/2016

DNR Use Only

Date Received	Noted By

Comments:

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX D

Hydraulic Conductivity Tests

Slug Test Analysis - Bouwer & Rice

Client:	Old Dutch Mill
Proj. No:	P101393.40
Test by:	Casey Weber
Test Date:	08/10/16

Well ID: MW-2

Hydraulic conductivity (K):
1.63E-08 cm/sec
13.0 ft/day

User Input Data

Aquifer Thickness	11.40
Well Length (L_W)	11.40
Intake Length (L_I)	10.00
Well Radius (R_W)	0.344
Casing Radius(R_C)	0.344
Xform ratio, m [$(K_h/K_v)^{0.5}$]	1
Sandpack Porosity	0.270
Slug Volume	0.031
Static Level	0.000
Offset time	0.000

R_{equiv}	-1.000	-1.000	-1.000
Estimated Porosity & R_W		-1.000	-1.000
$\ln(R_E/R_W)$		2.596	-1.000
Shape Factor *warning 2*		18.640	-1.000

Drawdown:	Max. Y_I	Regr. Y_o	Casing Y_o
	5.51	5.51	0.08

CHECK WATER BALANCE - Regressed v. Casing Yo

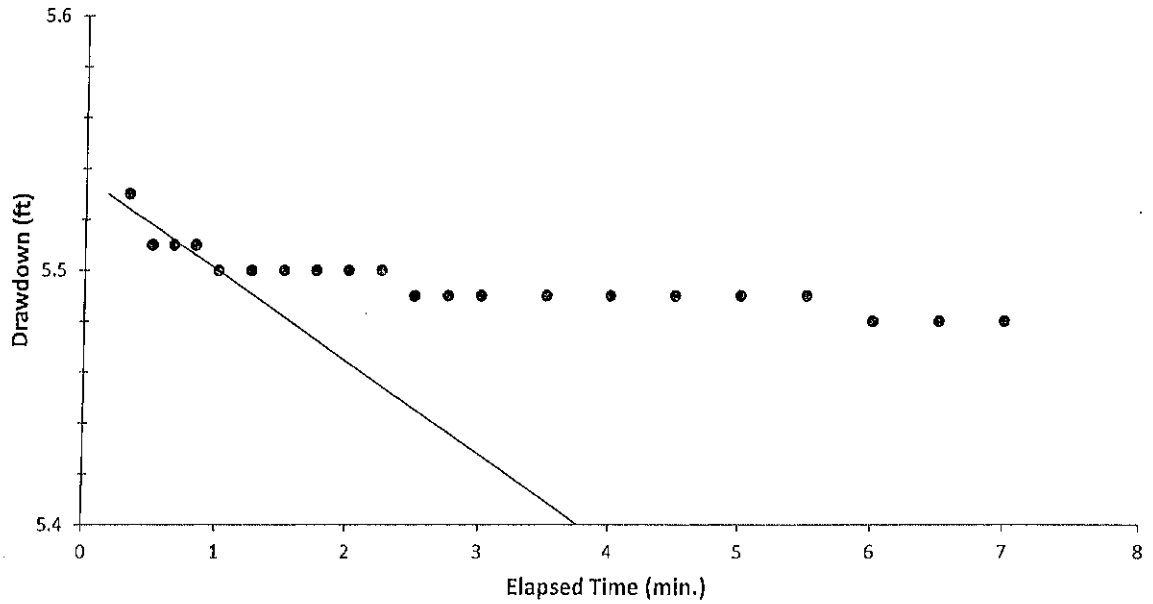
(undrained)
(unconfined)

			Drained Options		
		A	B	C	D
		Undrained	User n/R_W	Est. n	Est. R_W
Bouwer & Rice	(m/sec)	4.6E-05			
	(ft/day)	13.04			

Potentially acceptable solutions:
Conversion factor for user units: (ft/day) 283000

Intercept		1.706
Slope		-0.003
No. of Observations		5
Starting Row	69	
Ending Row	73	

COMMENTS:



Elapsed Time (min.)

Time (min)	level (feet)	Drawdown Y(t)	ln(Y)		Est. ln(Y)	Regression Range
0.170	5.800					
0.330	5.790	5.790	1.756		5.764	
0.500	5.780	5.780	1.754		5.761	
0.670	5.770	5.770	1.753		5.758	
0.830	5.770	5.770	1.753		5.755	
1.250	5.770	5.770	1.753		5.748	
1.500	5.770	5.770	1.753		5.744	
1.750	5.770	5.770	1.753		5.740	
2.000	5.770	5.770	1.753		5.736	
2.250	5.760	5.760	1.751		5.732	
2.500	5.760	5.760	1.751		5.727	
2.750	5.760	5.760	1.751		5.723	
3.000	5.760	5.760	1.751		5.719	
3.500	5.760	5.760	1.751		5.711	
4.000	5.760	5.760	1.751		5.702	
4.500	5.760	5.760	1.751	1.751	5.694	<==
5.000	5.750	5.750	1.749	1.749	5.686	<==
5.500	5.750	5.750	1.749	1.749	5.677	<==
6.000	5.750	5.750	1.749	1.749	5.669	<==
6.500	5.750	5.750	1.749	1.749	5.661	<==
7.000	5.750	5.750	1.749	1.749	5.652	<==
7.500	5.750	5.750	1.749	1.749	5.644	<==
8.000	5.750	5.750	1.749	1.749	5.636	<==
8.500	5.740	5.740	1.747	1.747	5.628	<==
9.000	5.740	5.740	1.747	1.747	5.619	<==
9.500	5.740	5.740	1.747		5.611	
10.000	5.740	5.740	1.747		5.603	
11.000	5.740	5.740	1.747		5.587	
12.000	5.730	5.730	1.746		5.570	
13.000	5.730	5.730	1.746		5.554	
14.000	5.730	5.730	1.746		5.538	
15.000	5.730	5.730	1.746		5.521	
16.000	5.730	5.730	1.746			
17.000	5.720	5.720	1.744			
18.000	5.720	5.720	1.744			

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX E

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 *09-Feb-16*

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E30426

Lab Code 5030426A
Sample ID GP-10 S-2
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.3	%			1	5021		2/4/2016	DJL	1
Organic										
PAH SIM										
Acenaphthene	< 0.0201	mg/kg	0.0201	0.064	1	M8270C	2/5/2016	2/5/2016	MDK	1
Acenaphthylene	0.036 "J"	mg/kg	0.0198	0.062	1	M8270C	2/5/2016	2/5/2016	MDK	1
Anthracene	0.042 "J"	mg/kg	0.0171	0.054	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(a)anthracene	0.222	mg/kg	0.0191	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(a)pyrene	0.253	mg/kg	0.0143	0.045	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(b)fluoranthene	0.45	mg/kg	0.019	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(g,h,i)perylene	0.233	mg/kg	0.02	0.064	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(k)fluoranthene	0.15	mg/kg	0.0174	0.055	1	M8270C	2/5/2016	2/5/2016	MDK	1
Chrysene	0.239	mg/kg	0.0192	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Dibenzo(a,h)anthracene	0.046 "J"	mg/kg	0.015	0.047	1	M8270C	2/5/2016	2/5/2016	MDK	1
Fluoranthene	0.44	mg/kg	0.0192	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Fluorene	< 0.0184	mg/kg	0.0184	0.058	1	M8270C	2/5/2016	2/5/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.19	mg/kg	0.0165	0.052	1	M8270C	2/5/2016	2/5/2016	MDK	1
1-Methyl naphthalene	< 0.0205	mg/kg	0.0205	0.065	1	M8270C	2/5/2016	2/5/2016	MDK	1
2-Methyl naphthalene	< 0.0199	mg/kg	0.0199	0.063	1	M8270C	2/5/2016	2/5/2016	MDK	1
Naphthalene	< 0.0203	mg/kg	0.0203	0.064	1	M8270C	2/5/2016	2/5/2016	MDK	1
Phenanthrene	0.127	mg/kg	0.0198	0.063	1	M8270C	2/5/2016	2/5/2016	MDK	1
Pyrene	0.36	mg/kg	0.0192	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
PVOC										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30426
Project # P101393.40

Lab Code 5030426D
Sample ID GP-11 S-2
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.8	%			1	5021		2/4/2016	DJL	1
Organic										
PAH SIM										
Acenaphthene	< 0.0201	mg/kg	0.0201	0.064	1	M8270C	2/5/2016	2/5/2016	MDK	1
Acenaphthylene	< 0.0198	mg/kg	0.0198	0.062	1	M8270C	2/5/2016	2/5/2016	MDK	1
Anthracene	< 0.0171	mg/kg	0.0171	0.054	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(a)anthracene	< 0.0191	mg/kg	0.0191	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.045	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(b)fluoranthene	< 0.019	mg/kg	0.019	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(g,h,i)perylene	< 0.02	mg/kg	0.02	0.064	1	M8270C	2/5/2016	2/5/2016	MDK	1
Benzo(k)fluoranthene	< 0.0174	mg/kg	0.0174	0.055	1	M8270C	2/5/2016	2/5/2016	MDK	1
Chrysene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.015	mg/kg	0.015	0.047	1	M8270C	2/5/2016	2/5/2016	MDK	1
Fluoranthene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
Fluorene	< 0.0184	mg/kg	0.0184	0.058	1	M8270C	2/5/2016	2/5/2016	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.0165	mg/kg	0.0165	0.052	1	M8270C	2/5/2016	2/5/2016	MDK	1
1-Methyl naphthalene	< 0.0205	mg/kg	0.0205	0.065	1	M8270C	2/5/2016	2/5/2016	MDK	1
2-Methyl naphthalene	< 0.0199	mg/kg	0.0199	0.063	1	M8270C	2/5/2016	2/5/2016	MDK	1
Naphthalene	< 0.0203	mg/kg	0.0203	0.064	1	M8270C	2/5/2016	2/5/2016	MDK	1
Phenanthrene	< 0.0198	mg/kg	0.0198	0.063	1	M8270C	2/5/2016	2/5/2016	MDK	1
Pyrene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	2/5/2016	2/5/2016	MDK	1
PVOC										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Lab Code 5030426E
Sample ID GP-11 S-4
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.2	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30426
Project # P101393.40

Lab Code 5030426F
Sample ID GP-12 S-2
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	94.9	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Lab Code 5030426G
Sample ID GP-12 S-3
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30426
Project # P101393.40

Lab Code 5030426H
Sample ID GP-12 S-4
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.7	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	0.0252 "J"	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Lab Code 5030426I
Sample ID GP-13 S-3
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	77.1	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	0.0297 "J"	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30426
Project # P101393.40

Lab Code 5030426J
Sample ID GP-13 S-4
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.4	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Lab Code 5030426K
Sample ID GP-14 S-3
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	76.8	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30426
Project # P101393.40

Lab Code 5030426L
Sample ID GP-14 S-4
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.1	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/9/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/9/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/9/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/9/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/9/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/9/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/9/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/9/2016	CJR	1

Lab Code 5030426M
Sample ID MW-1 S-3
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	78.5	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/9/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/9/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/9/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/9/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/9/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/9/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/9/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/9/2016	CJR	1

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E30426

Lab Code 5030426N
Sample ID MW-1 S-4
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	83.0	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/9/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/9/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/9/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/9/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/9/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/9/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/9/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/9/2016	CJR	1

Lab Code 5030426O
Sample ID MW-3 S-2
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.3	%			1	5021		2/4/2016	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/9/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/9/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/9/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/9/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/9/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/9/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/9/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/9/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/9/2016	CJR	1

Lab Code 5030426P
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 1/25/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		2/8/2016	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		2/8/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		2/8/2016	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		2/8/2016	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		2/8/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		2/8/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		2/8/2016	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		2/8/2016	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		2/8/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	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.

Authorized Signature

Endeavor
ENVIRONMENTAL SERVICES, INC.

APPENDIX F

Groundwater Sample Laboratory Analytical Reports

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

January 07, 2016

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

RE: Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on January 04, 2016. 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,

Christopher Hyska

Christopher Hyska
christopher.hyska@pacelabs.com
Project Manager

Enclosures

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

CERTIFICATIONS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

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
Virginia VELAP ID: 460263
North Dakota Certification #: R-150
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
US Dept of Agriculture #: S-76505
Virginia VELAP ID: 460263
Virginia VELAP Certification ID: 460263
Wisconsin Certification #: 405132750

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SAMPLE SUMMARY

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40126723001	POTABLE	Water	01/01/16 13:50	01/04/16 11:05
40126723002	TRIP BLANK	Water	01/01/16 00:00	01/04/16 11:05

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SAMPLE ANALYTE COUNT

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40126723001	**POTABLE**	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 8260	HNW	64	PASI-G
40126723002	**TRIP BLANK**	EPA 8260	HNW	64	PASI-G

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PROJECT NARRATIVE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Method: EPA 8270 by HVI
Description: 8270 MSSV PAH by HVI
Client: Endeavor Environmental Services, Inc.
Date: January 07, 2016

General Information:
1 sample was analyzed for EPA 8270 by HVI. 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.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 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.

Internal Standards:
All internal standards were within QC limits 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.

QC Batch: OEXT/29395

B: Analyte was detected in the associated method blank.

- BLANK for HBN 214639 [OEXT/293 (Lab ID: 1280745)
  - Benzo(g,h,i)perylene
  - Dibenz(a,h)anthracene
  - Indeno(1,2,3-cd)pyrene
  - Naphthalene

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:

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PROJECT NARRATIVE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Method: EPA 8260
Description: 8260 MSV
Client: Endeavor Environmental Services, Inc.
Date: January 07, 2016

General Information:
2 samples were analyzed for EPA 8260. 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.

Internal Standards:
All internal standards were within QC limits 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.

QC Batch: MSV/31791

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1280425)
  - Styrene

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.

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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: POTABLE **Lab ID: 40126723001** Collected: 01/01/16 13:50 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0050**	ug/L	0.050	0.0050	1	01/06/16 08:01	01/06/16 12:39	83-32-9	
Acenaphthylene	**<0.0049**	ug/L	0.050	0.0049	1	01/06/16 08:01	01/06/16 12:39	208-96-8	
Anthracene	**<0.0040**	ug/L	0.050	0.0040	1	01/06/16 08:01	01/06/16 12:39	120-12-7	
Benzo(a)anthracene	**<0.0051**	ug/L	0.050	0.0051	1	01/06/16 08:01	01/06/16 12:39	56-55-3	
Benzo(a)pyrene	**<0.0044**	ug/L	0.050	0.0044	1	01/06/16 08:01	01/06/16 12:39	50-32-8	
Benzo(b)fluoranthene	**<0.0053**	ug/L	0.050	0.0053	1	01/06/16 08:01	01/06/16 12:39	205-99-2	
Benzo(g,h,i)perylene	**0.010J**	ug/L	0.050	0.0035	1	01/06/16 08:01	01/06/16 12:39	191-24-2	B
Benzo(k)fluoranthene	**<0.0056**	ug/L	0.050	0.0056	1	01/06/16 08:01	01/06/16 12:39	207-08-9	
Chrysene	**<0.0042**	ug/L	0.050	0.0042	1	01/06/16 08:01	01/06/16 12:39	218-01-9	
Dibenz(a,h)anthracene	**0.016J**	ug/L	0.050	0.0056	1	01/06/16 08:01	01/06/16 12:39	53-70-3	B
Fluoranthene	**<0.0094**	ug/L	0.050	0.0094	1	01/06/16 08:01	01/06/16 12:39	206-44-0	
Fluorene	**<0.0040**	ug/L	0.050	0.0040	1	01/06/16 08:01	01/06/16 12:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.016J**	ug/L	0.050	0.0036	1	01/06/16 08:01	01/06/16 12:39	193-39-5	B
1-Methylnaphthalene	**<0.0031**	ug/L	0.050	0.0031	1	01/06/16 08:01	01/06/16 12:39	90-12-0	
2-Methylnaphthalene	**0.0037J**	ug/L	0.050	0.0028	1	01/06/16 08:01	01/06/16 12:39	91-57-6	
Naphthalene	**0.012J**	ug/L	0.050	0.0045	1	01/06/16 08:01	01/06/16 12:39	91-20-3	B
Phenanthrene	**<0.0077**	ug/L	0.050	0.0077	1	01/06/16 08:01	01/06/16 12:39	85-01-8	
Pyrene	**<0.0077**	ug/L	0.050	0.0077	1	01/06/16 08:01	01/06/16 12:39	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	70	%	40-130		1	01/06/16 08:01	01/06/16 12:39	321-60-8	
Terphenyl-d14 (S)	118	%	26-135		1	01/06/16 08:01	01/06/16 12:39	1718-51-0	
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/06/16 15:51	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/06/16 15:51	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:51	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/06/16 15:51	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:51	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/06/16 15:51	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:51	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/06/16 15:51	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	106-46-7	

REPORT OF LABORATORY ANALYSIS

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

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: POTABLE **Lab ID: 40126723001** Collected: 01/01/16 13:50 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/06/16 15:51	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/06/16 15:51	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:51	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/06/16 15:51	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:51	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:51	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/06/16 15:51	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/06/16 15:51	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/06/16 15:51	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:51	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:51	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	100-42-5	L2
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/06/16 15:51	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:51	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:51	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/06/16 15:51	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/06/16 15:51	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/06/16 15:51	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		01/06/16 15:51	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		01/06/16 15:51	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		01/06/16 15:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: TRIP BLANK **Lab ID: 40126723002** Collected: 01/01/16 00:00 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/06/16 15:28	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/06/16 15:28	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:28	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/06/16 15:28	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:28	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/06/16 15:28	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:28	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/06/16 15:28	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/06/16 15:28	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/06/16 15:28	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:28	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/06/16 15:28	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:28	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:28	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/06/16 15:28	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/06/16 15:28	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:28	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/06/16 15:28	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:28	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:28	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	100-42-5	L2
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: TRIP BLANK **Lab ID: 40126723002** Collected: 01/01/16 00:00 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/06/16 15:28	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:28	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:28	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/06/16 15:28	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/06/16 15:28	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/06/16 15:28	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		01/06/16 15:28	460-00-4	HS
Dibromofluoromethane (S)	87	%	70-130		1		01/06/16 15:28	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		01/06/16 15:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

QC Batch: MSV/31791 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40126723001, 40126723002

METHOD BLANK: 1280424 Matrix: Water
Associated Lab Samples: 40126723001, 40126723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/06/16 07:39	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/06/16 07:39	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/06/16 07:39	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/06/16 07:39	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/06/16 07:39	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/06/16 07:39	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/06/16 07:39	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/06/16 07:39	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/06/16 07:39	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/06/16 07:39	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/06/16 07:39	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/06/16 07:39	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/06/16 07:39	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/06/16 07:39	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/06/16 07:39	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/06/16 07:39	
2-Chlorotoluene	ug/L	<0.50	1.0	01/06/16 07:39	
4-Chlorotoluene	ug/L	<0.21	1.0	01/06/16 07:39	
Benzene	ug/L	<0.50	1.0	01/06/16 07:39	
Bromobenzene	ug/L	<0.23	1.0	01/06/16 07:39	
Bromochloromethane	ug/L	<0.34	1.0	01/06/16 07:39	
Bromodichloromethane	ug/L	<0.50	1.0	01/06/16 07:39	
Bromoform	ug/L	<0.50	1.0	01/06/16 07:39	
Bromomethane	ug/L	<2.4	5.0	01/06/16 07:39	
Carbon tetrachloride	ug/L	<0.50	1.0	01/06/16 07:39	
Chlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
Chloroethane	ug/L	<0.37	1.0	01/06/16 07:39	
Chloroform	ug/L	<2.5	5.0	01/06/16 07:39	
Chloromethane	ug/L	<0.50	1.0	01/06/16 07:39	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/06/16 07:39	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/06/16 07:39	
Dibromochloromethane	ug/L	<0.50	1.0	01/06/16 07:39	
Dibromomethane	ug/L	<0.43	1.0	01/06/16 07:39	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/06/16 07:39	
Diisopropyl ether	ug/L	<0.50	1.0	01/06/16 07:39	
Ethylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

METHOD BLANK: 1280424 Matrix: Water
Associated Lab Samples: 40126723001, 40126723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/06/16 07:39	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/06/16 07:39	
m&p-Xylene	ug/L	<1.0	2.0	01/06/16 07:39	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/06/16 07:39	
Methylene Chloride	ug/L	<0.23	1.0	01/06/16 07:39	
n-Butylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
n-Propylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
Naphthalene	ug/L	<2.5	5.0	01/06/16 07:39	
o-Xylene	ug/L	<0.50	1.0	01/06/16 07:39	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/06/16 07:39	
sec-Butylbenzene	ug/L	<2.2	5.0	01/06/16 07:39	
Styrene	ug/L	<0.50	1.0	01/06/16 07:39	
tert-Butylbenzene	ug/L	<0.18	1.0	01/06/16 07:39	
Tetrachloroethene	ug/L	<0.50	1.0	01/06/16 07:39	
Toluene	ug/L	<0.50	1.0	01/06/16 07:39	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/06/16 07:39	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/06/16 07:39	
Trichloroethene	ug/L	<0.33	1.0	01/06/16 07:39	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/06/16 07:39	
Vinyl chloride	ug/L	<0.18	1.0	01/06/16 07:39	
4-Bromofluorobenzene (S)	%	95	70-130	01/06/16 07:39	
Dibromofluoromethane (S)	%	99	70-130	01/06/16 07:39	
Toluene-d8 (S)	%	95	70-130	01/06/16 07:39	

LABORATORY CONTROL SAMPLE: 1280425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.5	89	70-130	
1,1,2-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethane	ug/L	50	44.0	88	70-130	
1,1-Dichloroethene	ug/L	50	45.7	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.0	90	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-131	
1,2-Dichloropropane	ug/L	50	47.0	94	70-130	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	49.4	99	70-130	
Benzene	ug/L	50	46.2	92	70-130	
Bromodichloromethane	ug/L	50	49.2	98	70-130	
Bromoform	ug/L	50	51.1	102	68-130	
Bromomethane	ug/L	50	31.8	64	38-137	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

LABORATORY CONTROL SAMPLE: 1280425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	50.3	101	70-130	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	36.8	74	70-136	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	36.3	73	48-144	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	70-130	
cis-1,3-Dichloropropene	ug/L	50	38.8	78	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	31.5	63	33-157	
Ethylbenzene	ug/L	50	50.8	102	70-132	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	103	103	70-131	
Methyl-tert-butyl ether	ug/L	50	45.1	90	48-141	
Methylene Chloride	ug/L	50	45.0	90	70-130	
o-Xylene	ug/L	50	51.3	103	70-131	
Styrene	ug/L	50	28.1	56	70-130	L0
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Toluene	ug/L	50	50.2	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	38.8	78	70-130	
Trichloroethene	ug/L	50	51.3	103	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	50-150	
Vinyl chloride	ug/L	50	41.7	83	65-142	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			89	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280793 1280794

Parameter	Units	10334995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	56.2	58.3	112	117	70-130	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.5	47.6	91	95	70-130	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.9	52.2	100	104	70-130	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.8	50.8	98	102	70-134	4	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.8	54.3	104	109	70-139	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	54.8	57.3	109	114	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	48.4	50.4	97	101	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.2	53.7	102	107	70-130	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	53.0	54.7	106	109	70-130	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	51.5	54.1	103	108	70-132	5	20	
1,2-Dichloropropane	ug/L	ND	50	50	47.6	49.3	95	99	70-130	3	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	53.0	54.9	106	110	70-130	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	51.7	53.8	103	108	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280793 1280794

Parameter	Units	10334995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	12.6	50	50	66.5	67.8	108	110	70-130	2	20	
Bromodichloromethane	ug/L	ND	50	50	50.7	51.7	101	103	70-132	2	20	
Bromoform	ug/L	ND	50	50	51.0	52.6	102	105	68-130	3	20	
Bromomethane	ug/L	ND	50	50	41.7	43.4	83	87	38-141	4	20	
Carbon tetrachloride	ug/L	ND	50	50	57.2	60.6	114	121	70-130	6	20	
Chlorobenzene	ug/L	ND	50	50	51.9	54.1	104	108	70-130	4	20	
Chloroethane	ug/L	ND	50	50	43.6	44.4	87	89	66-152	2	20	
Chloroform	ug/L	ND	50	50	57.0	59.4	114	119	70-130	4	20	
Chloromethane	ug/L	ND	50	50	48.0	49.5	96	99	44-151	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.1	54.5	103	108	70-130	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	47.1	48.4	94	97	70-130	3	20	
Dibromochloromethane	ug/L	ND	50	50	51.3	53.5	103	107	70-130	4	20	
Dichlorodifluoromethane	ug/L	ND	50	50	46.1	48.4	92	97	29-160	5	20	
Ethylbenzene	ug/L	14.2	50	50	67.4	66.2	106	104	70-132	2	20	
Isopropylbenzene (Cumene)	ug/L	2.2	50	50	56.7	57.8	109	111	70-130	2	20	
m&p-Xylene	ug/L	28.4	100	100	136	131	108	103	70-131	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	51.3	55.0	103	110	48-143	7	20	
Methylene Chloride	ug/L	ND	50	50	53.3	54.4	107	109	70-130	2	20	
o-Xylene	ug/L	13.0	50	50	67.1	65.3	108	105	70-131	3	20	
Styrene	ug/L	ND	50	50	48.7	50.0	97	100	70-130	3	20	
Tetrachloroethene	ug/L	ND	50	50	55.2	57.2	110	114	70-130	4	20	
Toluene	ug/L	24.7	50	50	76.5	72.1	103	95	70-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.3	54.7	107	109	70-132	3	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	45.8	47.3	92	95	70-130	3	20	
Trichloroethene	ug/L	ND	50	50	52.9	54.5	105	108	70-130	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	54.8	56.9	110	114	50-153	4	20	
Vinyl chloride	ug/L	ND	50	50	50.0	52.6	100	105	60-155	5	20	
4-Bromofluorobenzene (S)	%						99	99	70-130			
Dibromofluoromethane (S)	%						96	97	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

QC Batch: OEXT/29395
QC Batch Method: EPA 3510
Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40126723001

METHOD BLANK: 1280745
Matrix: Water
Associated Lab Samples: 40126723001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	01/06/16 12:06	
2-Methylnaphthalene	ug/L	<0.0028	0.050	01/06/16 12:06	
Acenaphthene	ug/L	<0.0050	0.050	01/06/16 12:06	
Acenaphthylene	ug/L	<0.0049	0.050	01/06/16 12:06	
Anthracene	ug/L	<0.0040	0.050	01/06/16 12:06	
Benzo(a)anthracene	ug/L	<0.0051	0.050	01/06/16 12:06	
Benzo(a)pyrene	ug/L	0.0046J	0.050	01/06/16 12:06	
Benzo(b)fluoranthene	ug/L	0.0061J	0.050	01/06/16 12:06	
Benzo(g,h,i)perylene	ug/L	0.0099J	0.050	01/06/16 12:06	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	01/06/16 12:06	
Chrysene	ug/L	0.0051J	0.050	01/06/16 12:06	
Dibenz(a,h)anthracene	ug/L	0.0097J	0.050	01/06/16 12:06	
Fluoranthene	ug/L	<0.0094	0.050	01/06/16 12:06	
Fluorene	ug/L	<0.0040	0.050	01/06/16 12:06	
Indeno(1,2,3-cd)pyrene	ug/L	0.0095J	0.050	01/06/16 12:06	
Naphthalene	ug/L	0.015J	0.050	01/06/16 12:06	
Phenanthrene	ug/L	<0.0077	0.050	01/06/16 12:06	
Pyrene	ug/L	<0.0077	0.050	01/06/16 12:06	
2-Fluorobiphenyl (S)	%	68	40-130	01/06/16 12:06	
Terphenyl-d14 (S)	%	128	26-135	01/06/16 12:06	

LABORATORY CONTROL SAMPLE: 1280746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	74	46-130	
2-Methylnaphthalene	ug/L	2	1.5	75	47-130	
Acenaphthene	ug/L	2	1.6	79	49-130	
Acenaphthylene	ug/L	2	1.7	83	44-130	
Anthracene	ug/L	2	1.8	90	53-130	
Benzo(a)anthracene	ug/L	2	1.9	97	49-130	
Benzo(a)pyrene	ug/L	2	2.2	111	47-130	
Benzo(b)fluoranthene	ug/L	2	2.4	122	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.4	72	33-132	
Benzo(k)fluoranthene	ug/L	2	2.3	117	59-143	
Chrysene	ug/L	2	2.5	124	70-157	
Dibenz(a,h)anthracene	ug/L	2	1.3	64	24-130	
Fluoranthene	ug/L	2	2.0	102	59-130	
Fluorene	ug/L	2	1.6	82	49-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	89	52-130	
Naphthalene	ug/L	2	1.5	75	45-130	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

LABORATORY CONTROL SAMPLE: 1280746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.9	93	60-130	
Pyrene	ug/L	2	2.0	101	64-147	
2-Fluorobiphenyl (S)	%			74	40-130	
Terphenyl-d14 (S)	%			120	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280747 1280748

Parameter	Units	40126723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0031	2	2	1.5	1.7	73	83	27-130	13	42	
2-Methylnaphthalene	ug/L	0.0037J	2	2	1.5	1.7	75	86	33-130	13	37	
Acenaphthene	ug/L	<0.0050	2	2	1.5	1.7	76	85	32-130	11	35	
Acenaphthylene	ug/L	<0.0049	2	2	1.6	1.7	78	86	34-130	10	29	
Anthracene	ug/L	<0.0040	2	2	1.6	1.7	79	84	31-130	7	29	
Benzo(a)anthracene	ug/L	<0.0051	2	2	1.8	1.8	89	90	35-135	0	20	
Benzo(a)pyrene	ug/L	<0.0044	2	2	1.9	1.9	95	96	21-139	1	22	
Benzo(b)fluoranthene	ug/L	<0.0053	2	2	2.2	2.3	110	114	26-144	4	20	
Benzo(g,h,i)perylene	ug/L	0.010J	2	2	1.1	1.0	53	52	10-142	2	20	
Benzo(k)fluoranthene	ug/L	<0.0056	2	2	1.9	2.0	96	100	21-155	4	20	
Chrysene	ug/L	<0.0042	2	2	2.2	2.2	111	111	46-157	1	20	
Dibenz(a,h)anthracene	ug/L	0.016J	2	2	1.0	0.99	50	49	10-143	2	20	
Fluoranthene	ug/L	<0.0094	2	2	1.9	1.9	95	95	35-138	1	20	
Fluorene	ug/L	<0.0040	2	2	1.5	1.8	77	88	28-130	13	27	
Indeno(1,2,3-cd)pyrene	ug/L	0.016J	2	2	1.5	1.5	73	72	16-139	1	20	
Naphthalene	ug/L	0.012J	2	2	1.5	1.7	73	83	35-130	13	39	
Phenanthrene	ug/L	<0.0077	2	2	1.8	1.9	87	95	41-131	8	22	
Pyrene	ug/L	<0.0077	2	2	1.9	1.9	96	96	50-151	0	20	
2-Fluorobiphenyl (S)	%						73	83	40-130			
Terphenyl-d14 (S)	%						113	115	26-135			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126723001	POTABLE	EPA 3510	OEXT/29395	EPA 8270 by HVI	MSSV/8655
40126723001	POTABLE	EPA 8260	MSV/31791		
40126723002	TRIP BLANK	EPA 8260	MSV/31791		

Pace Analytical®
www.pacelabs.com

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

40126723

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Endeavor Env. Services Inc
Branch/Location:	Green Bay
Project Contact:	Josef Ramcheck
Phone:	920-437-2997
Project Number:	P101393.40
Project Name:	Old Dutch Mill
Project State:	WI
Sampled By (Print):	Josef Ramcheck
Sampled By (Sign):	
PO #:	AECOM WIC
Regulatory Program:	

Quote #:	
Mail To Contact:	Josef Ramcheck
Mail To Company:	Endeavor Env. Services Inc
Mail To Address:	2280-B Sustainable Ct Green Bay WI 54313
Invoice To Contact:	Same as Report To
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	B	VOC			
					N	A	PAH			
001	Potable	1/1/16	1350	DW	X	X			3-40mlV B 1-1lgA	
002	Trip Blank	↓	—	Trip	X				1-40mlV B	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time:	Received By:	Date/Time:
		1/4/16 1105	Tasee Pace	1/4/16 1105
Transmit Prelim Rush Results by (complete what you want):	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Fax:	Relinquished By:	Date/Time:	Received By:	Date/Time:

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

PACE Project No.
40126723

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

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

ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: POTABLE **Lab ID: 40126723001** Collected: 01/01/16 13:50 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/06/16 15:51	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/06/16 15:51	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:51	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/06/16 15:51	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:51	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:51	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/06/16 15:51	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/06/16 15:51	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:51	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/06/16 15:51	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:51	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:51	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:51	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	100-42-5	L2
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	630-20-6	
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/06/16 15:51	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:51	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:51	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/06/16 15:51	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/06/16 15:51	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:51	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/06/16 15:51	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:51	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		01/06/16 15:51	460-00-4	
Dibromofluoromethane (S)	87	%	70-130		1		01/06/16 15:51	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		01/06/16 15:51	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: TRIP BLANK **Lab ID: 40126723002** Collected: 01/01/16 00:00 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
Benzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	71-43-2	
Bromobenzene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	108-86-1	
Bromochloromethane	**<0.34**	ug/L	1.0	0.34	1		01/06/16 15:28	74-97-5	
Bromodichloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	75-27-4	
Bromoform	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	75-25-2	
Bromomethane	**<2.4**	ug/L	5.0	2.4	1		01/06/16 15:28	74-83-9	
n-Butylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	104-51-8	
sec-Butylbenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:28	135-98-8	
tert-Butylbenzene	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	98-06-6	
Carbon tetrachloride	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	56-23-5	
Chlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-90-7	
Chloroethane	**<0.37**	ug/L	1.0	0.37	1		01/06/16 15:28	75-00-3	
Chloroform	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:28	67-66-3	
Chloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	74-87-3	
2-Chlorotoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-49-8	
4-Chlorotoluene	**<0.21**	ug/L	1.0	0.21	1		01/06/16 15:28	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:28	96-12-8	
Dibromochloromethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	106-93-4	
Dibromomethane	**<0.43**	ug/L	1.0	0.43	1		01/06/16 15:28	74-95-3	
1,2-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-50-1	
1,3-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	541-73-1	
1,4-Dichlorobenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	106-46-7	
Dichlorodifluoromethane	**<0.22**	ug/L	1.0	0.22	1		01/06/16 15:28	75-71-8	
1,1-Dichloroethane	**<0.24**	ug/L	1.0	0.24	1		01/06/16 15:28	75-34-3	
1,2-Dichloroethane	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:28	107-06-2	
1,1-Dichloroethene	**<0.41**	ug/L	1.0	0.41	1		01/06/16 15:28	75-35-4	
cis-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:28	156-59-2	
trans-1,2-Dichloroethene	**<0.26**	ug/L	1.0	0.26	1		01/06/16 15:28	156-60-5	
1,2-Dichloropropane	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	78-87-5	
1,3-Dichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	142-28-9	
2,2-Dichloropropane	**<0.48**	ug/L	1.0	0.48	1		01/06/16 15:28	594-20-7	
1,1-Dichloropropene	**<0.44**	ug/L	1.0	0.44	1		01/06/16 15:28	563-58-6	
cis-1,3-Dichloropropene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	10061-01-5	
trans-1,3-Dichloropropene	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	10061-02-6	
Diisopropyl ether	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-20-3	
Ethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	100-41-4	
Hexachloro-1,3-butadiene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:28	87-68-3	
Isopropylbenzene (Cumene)	**<0.14**	ug/L	1.0	0.14	1		01/06/16 15:28	98-82-8	
p-Isopropyltoluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	99-87-6	
Methylene Chloride	**<0.23**	ug/L	1.0	0.23	1		01/06/16 15:28	75-09-2	
Methyl-tert-butyl ether	**<0.17**	ug/L	1.0	0.17	1		01/06/16 15:28	1634-04-4	
Naphthalene	**<2.5**	ug/L	5.0	2.5	1		01/06/16 15:28	91-20-3	
n-Propylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	103-65-1	
Styrene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	100-42-5	L2
1,1,1,2-Tetrachloroethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	630-20-6	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Sample: TRIP BLANK **Lab ID: 40126723002** Collected: 01/01/16 00:00 Received: 01/04/16 11:05 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260								
1,1,2,2-Tetrachloroethane	**<0.25**	ug/L	1.0	0.25	1		01/06/16 15:28	79-34-5	
Tetrachloroethene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	127-18-4	
Toluene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-88-3	
1,2,3-Trichlorobenzene	**<2.1**	ug/L	5.0	2.1	1		01/06/16 15:28	87-61-6	
1,2,4-Trichlorobenzene	**<2.2**	ug/L	5.0	2.2	1		01/06/16 15:28	120-82-1	
1,1,1-Trichloroethane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	71-55-6	
1,1,2-Trichloroethane	**<0.20**	ug/L	1.0	0.20	1		01/06/16 15:28	79-00-5	
Trichloroethene	**<0.33**	ug/L	1.0	0.33	1		01/06/16 15:28	79-01-6	
Trichlorofluoromethane	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	75-69-4	
1,2,3-Trichloropropane	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	96-18-4	
1,2,4-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-63-6	
1,3,5-Trimethylbenzene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	108-67-8	
Vinyl chloride	**<0.18**	ug/L	1.0	0.18	1		01/06/16 15:28	75-01-4	
m&p-Xylene	**<1.0**	ug/L	2.0	1.0	1		01/06/16 15:28	179601-23-1	
o-Xylene	**<0.50**	ug/L	1.0	0.50	1		01/06/16 15:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		01/06/16 15:28	460-00-4	HS
Dibromofluoromethane (S)	87	%	70-130		1		01/06/16 15:28	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		01/06/16 15:28	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

QC Batch: MSV/31791 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40126723001, 40126723002

METHOD BLANK: 1280424 Matrix: Water
Associated Lab Samples: 40126723001, 40126723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.18	1.0	01/06/16 07:39	
1,1,1-Trichloroethane	ug/L	<0.50	1.0	01/06/16 07:39	
1,1,2,2-Tetrachloroethane	ug/L	<0.25	1.0	01/06/16 07:39	
1,1,2-Trichloroethane	ug/L	<0.20	1.0	01/06/16 07:39	
1,1-Dichloroethane	ug/L	<0.24	1.0	01/06/16 07:39	
1,1-Dichloroethene	ug/L	<0.41	1.0	01/06/16 07:39	
1,1-Dichloropropene	ug/L	<0.44	1.0	01/06/16 07:39	
1,2,3-Trichlorobenzene	ug/L	<2.1	5.0	01/06/16 07:39	
1,2,3-Trichloropropane	ug/L	<0.50	1.0	01/06/16 07:39	
1,2,4-Trichlorobenzene	ug/L	<2.2	5.0	01/06/16 07:39	
1,2,4-Trimethylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,2-Dibromo-3-chloropropane	ug/L	<2.2	5.0	01/06/16 07:39	
1,2-Dibromoethane (EDB)	ug/L	<0.18	1.0	01/06/16 07:39	
1,2-Dichlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,2-Dichloroethane	ug/L	<0.17	1.0	01/06/16 07:39	
1,2-Dichloropropane	ug/L	<0.23	1.0	01/06/16 07:39	
1,3,5-Trimethylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,3-Dichlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
1,3-Dichloropropane	ug/L	<0.50	1.0	01/06/16 07:39	
1,4-Dichlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
2,2-Dichloropropane	ug/L	<0.48	1.0	01/06/16 07:39	
2-Chlorotoluene	ug/L	<0.50	1.0	01/06/16 07:39	
4-Chlorotoluene	ug/L	<0.21	1.0	01/06/16 07:39	
Benzene	ug/L	<0.50	1.0	01/06/16 07:39	
Bromobenzene	ug/L	<0.23	1.0	01/06/16 07:39	
Bromochloromethane	ug/L	<0.34	1.0	01/06/16 07:39	
Bromodichloromethane	ug/L	<0.50	1.0	01/06/16 07:39	
Bromoform	ug/L	<0.50	1.0	01/06/16 07:39	
Bromomethane	ug/L	<2.4	5.0	01/06/16 07:39	
Carbon tetrachloride	ug/L	<0.50	1.0	01/06/16 07:39	
Chlorobenzene	ug/L	<0.50	1.0	01/06/16 07:39	
Chloroethane	ug/L	<0.37	1.0	01/06/16 07:39	
Chloroform	ug/L	<2.5	5.0	01/06/16 07:39	
Chloromethane	ug/L	<0.50	1.0	01/06/16 07:39	
cis-1,2-Dichloroethene	ug/L	<0.26	1.0	01/06/16 07:39	
cis-1,3-Dichloropropene	ug/L	<0.50	1.0	01/06/16 07:39	
Dibromochloromethane	ug/L	<0.50	1.0	01/06/16 07:39	
Dibromomethane	ug/L	<0.43	1.0	01/06/16 07:39	
Dichlorodifluoromethane	ug/L	<0.22	1.0	01/06/16 07:39	
Diisopropyl ether	ug/L	<0.50	1.0	01/06/16 07:39	
Ethylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

METHOD BLANK: 1280424 Matrix: Water
Associated Lab Samples: 40126723001, 40126723002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<2.1	5.0	01/06/16 07:39	
Isopropylbenzene (Cumene)	ug/L	<0.14	1.0	01/06/16 07:39	
m&p-Xylene	ug/L	<1.0	2.0	01/06/16 07:39	
Methyl-tert-butyl ether	ug/L	<0.17	1.0	01/06/16 07:39	
Methylene Chloride	ug/L	<0.23	1.0	01/06/16 07:39	
n-Butylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
n-Propylbenzene	ug/L	<0.50	1.0	01/06/16 07:39	
Naphthalene	ug/L	<2.5	5.0	01/06/16 07:39	
o-Xylene	ug/L	<0.50	1.0	01/06/16 07:39	
p-Isopropyltoluene	ug/L	<0.50	1.0	01/06/16 07:39	
sec-Butylbenzene	ug/L	<2.2	5.0	01/06/16 07:39	
Styrene	ug/L	<0.50	1.0	01/06/16 07:39	
tert-Butylbenzene	ug/L	<0.18	1.0	01/06/16 07:39	
Tetrachloroethene	ug/L	<0.50	1.0	01/06/16 07:39	
Toluene	ug/L	<0.50	1.0	01/06/16 07:39	
trans-1,2-Dichloroethene	ug/L	<0.26	1.0	01/06/16 07:39	
trans-1,3-Dichloropropene	ug/L	<0.23	1.0	01/06/16 07:39	
Trichloroethene	ug/L	<0.33	1.0	01/06/16 07:39	
Trichlorofluoromethane	ug/L	<0.18	1.0	01/06/16 07:39	
Vinyl chloride	ug/L	<0.18	1.0	01/06/16 07:39	
4-Bromofluorobenzene (S)	%	95	70-130	01/06/16 07:39	
Dibromofluoromethane (S)	%	99	70-130	01/06/16 07:39	
Toluene-d8 (S)	%	95	70-130	01/06/16 07:39	

LABORATORY CONTROL SAMPLE: 1280425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	44.5	89	70-130	
1,1,2-Trichloroethane	ug/L	50	50.0	100	70-130	
1,1-Dichloroethane	ug/L	50	44.0	88	70-130	
1,1-Dichloroethene	ug/L	50	45.7	91	70-130	
1,2,4-Trichlorobenzene	ug/L	50	47.8	96	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.0	90	50-150	
1,2-Dibromoethane (EDB)	ug/L	50	49.8	100	70-130	
1,2-Dichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dichloroethane	ug/L	50	46.3	93	70-131	
1,2-Dichloropropane	ug/L	50	47.0	94	70-130	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	49.4	99	70-130	
Benzene	ug/L	50	46.2	92	70-130	
Bromodichloromethane	ug/L	50	49.2	98	70-130	
Bromoform	ug/L	50	51.1	102	68-130	
Bromomethane	ug/L	50	31.8	64	38-137	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

LABORATORY CONTROL SAMPLE: 1280425

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	50.3	101	70-130	
Chlorobenzene	ug/L	50	51.9	104	70-130	
Chloroethane	ug/L	50	36.8	74	70-136	
Chloroform	ug/L	50	48.1	96	70-130	
Chloromethane	ug/L	50	36.3	73	48-144	
cis-1,2-Dichloroethene	ug/L	50	45.6	91	70-130	
cis-1,3-Dichloropropene	ug/L	50	38.8	78	70-130	
Dibromochloromethane	ug/L	50	52.0	104	70-130	
Dichlorodifluoromethane	ug/L	50	31.5	63	33-157	
Ethylbenzene	ug/L	50	50.8	102	70-132	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	103	103	70-131	
Methyl-tert-butyl ether	ug/L	50	45.1	90	48-141	
Methylene Chloride	ug/L	50	45.0	90	70-130	
o-Xylene	ug/L	50	51.3	103	70-131	
Styrene	ug/L	50	28.1	56	70-130	L0
Tetrachloroethene	ug/L	50	52.2	104	70-130	
Toluene	ug/L	50	50.2	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	46.7	93	70-130	
trans-1,3-Dichloropropene	ug/L	50	38.8	78	70-130	
Trichloroethene	ug/L	50	51.3	103	70-130	
Trichlorofluoromethane	ug/L	50	46.6	93	50-150	
Vinyl chloride	ug/L	50	41.7	83	65-142	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			89	70-130	
Toluene-d8 (S)	%			98	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280793 1280794

Parameter	Units	10334995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	50	50	56.2	58.3	112	117	70-130	4	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	45.5	47.6	91	95	70-130	4	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	49.9	52.2	100	104	70-130	4	20	
1,1-Dichloroethane	ug/L	ND	50	50	48.8	50.8	98	102	70-134	4	20	
1,1-Dichloroethene	ug/L	ND	50	50	51.8	54.3	104	109	70-139	5	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	54.8	57.3	109	114	70-130	4	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	48.4	50.4	97	101	50-150	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	51.2	53.7	102	107	70-130	5	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	53.0	54.7	106	109	70-130	3	20	
1,2-Dichloroethane	ug/L	ND	50	50	51.5	54.1	103	108	70-132	5	20	
1,2-Dichloropropane	ug/L	ND	50	50	47.6	49.3	95	99	70-130	3	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	53.0	54.9	106	110	70-130	4	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	51.7	53.8	103	108	70-130	4	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280793 1280794

Parameter	Units	10334995001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/L	12.6	50	50	66.5	67.8	108	110	70-130	2	20	
Bromodichloromethane	ug/L	ND	50	50	50.7	51.7	101	103	70-132	2	20	
Bromoform	ug/L	ND	50	50	51.0	52.6	102	105	68-130	3	20	
Bromomethane	ug/L	ND	50	50	41.7	43.4	83	87	38-141	4	20	
Carbon tetrachloride	ug/L	ND	50	50	57.2	60.6	114	121	70-130	6	20	
Chlorobenzene	ug/L	ND	50	50	51.9	54.1	104	108	70-130	4	20	
Chloroethane	ug/L	ND	50	50	43.6	44.4	87	89	66-152	2	20	
Chloroform	ug/L	ND	50	50	57.0	59.4	114	119	70-130	4	20	
Chloromethane	ug/L	ND	50	50	48.0	49.5	96	99	44-151	3	20	
cis-1,2-Dichloroethene	ug/L	ND	50	50	52.1	54.5	103	108	70-130	5	20	
cis-1,3-Dichloropropene	ug/L	ND	50	50	47.1	48.4	94	97	70-130	3	20	
Dibromochloromethane	ug/L	ND	50	50	51.3	53.5	103	107	70-130	4	20	
Dichlorodifluoromethane	ug/L	ND	50	50	46.1	48.4	92	97	29-160	5	20	
Ethylbenzene	ug/L	14.2	50	50	67.4	66.2	106	104	70-132	2	20	
Isopropylbenzene (Cumene)	ug/L	2.2	50	50	56.7	57.8	109	111	70-130	2	20	
m&p-Xylene	ug/L	28.4	100	100	136	131	108	103	70-131	4	20	
Methyl-tert-butyl ether	ug/L	ND	50	50	51.3	55.0	103	110	48-143	7	20	
Methylene Chloride	ug/L	ND	50	50	53.3	54.4	107	109	70-130	2	20	
o-Xylene	ug/L	13.0	50	50	67.1	65.3	108	105	70-131	3	20	
Styrene	ug/L	ND	50	50	48.7	50.0	97	100	70-130	3	20	
Tetrachloroethene	ug/L	ND	50	50	55.2	57.2	110	114	70-130	4	20	
Toluene	ug/L	24.7	50	50	76.5	72.1	103	95	70-130	6	20	
trans-1,2-Dichloroethene	ug/L	ND	50	50	53.3	54.7	107	109	70-132	3	20	
trans-1,3-Dichloropropene	ug/L	ND	50	50	45.8	47.3	92	95	70-130	3	20	
Trichloroethene	ug/L	ND	50	50	52.9	54.5	105	108	70-130	3	20	
Trichlorofluoromethane	ug/L	ND	50	50	54.8	56.9	110	114	50-153	4	20	
Vinyl chloride	ug/L	ND	50	50	50.0	52.6	100	105	60-155	5	20	
4-Bromofluorobenzene (S)	%						99	99	70-130			
Dibromofluoromethane (S)	%						96	97	70-130			
Toluene-d8 (S)	%						98	99	70-130			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

QC Batch: OEXT/29395
QC Batch Method: EPA 3510
Associated Lab Samples: 40126723001

Analysis Method: EPA 8270 by HVI
Analysis Description: 8270 Water PAH by HVI

METHOD BLANK: 1280745 Matrix: Water
Associated Lab Samples: 40126723001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	<0.0031	0.050	01/06/16 12:06	
2-Methylnaphthalene	ug/L	<0.0028	0.050	01/06/16 12:06	
Acenaphthene	ug/L	<0.0050	0.050	01/06/16 12:06	
Acenaphthylene	ug/L	<0.0049	0.050	01/06/16 12:06	
Anthracene	ug/L	<0.0040	0.050	01/06/16 12:06	
Benzo(a)anthracene	ug/L	<0.0051	0.050	01/06/16 12:06	
Benzo(a)pyrene	ug/L	0.0046J	0.050	01/06/16 12:06	
Benzo(b)fluoranthene	ug/L	0.0061J	0.050	01/06/16 12:06	
Benzo(g,h,i)perylene	ug/L	0.0099J	0.050	01/06/16 12:06	
Benzo(k)fluoranthene	ug/L	<0.0056	0.050	01/06/16 12:06	
Chrysene	ug/L	0.0051J	0.050	01/06/16 12:06	
Dibenz(a,h)anthracene	ug/L	0.0097J	0.050	01/06/16 12:06	
Fluoranthene	ug/L	<0.0094	0.050	01/06/16 12:06	
Fluorene	ug/L	<0.0040	0.050	01/06/16 12:06	
Indeno(1,2,3-cd)pyrene	ug/L	0.0095J	0.050	01/06/16 12:06	
Naphthalene	ug/L	0.015J	0.050	01/06/16 12:06	
Phenanthrene	ug/L	<0.0077	0.050	01/06/16 12:06	
Pyrene	ug/L	<0.0077	0.050	01/06/16 12:06	
2-Fluorobiphenyl (S)	%	68	40-130	01/06/16 12:06	
Terphenyl-d14 (S)	%	128	26-135	01/06/16 12:06	

LABORATORY CONTROL SAMPLE: 1280746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.5	74	46-130	
2-Methylnaphthalene	ug/L	2	1.5	75	47-130	
Acenaphthene	ug/L	2	1.6	79	49-130	
Acenaphthylene	ug/L	2	1.7	83	44-130	
Anthracene	ug/L	2	1.8	90	53-130	
Benzo(a)anthracene	ug/L	2	1.9	97	49-130	
Benzo(a)pyrene	ug/L	2	2.2	111	47-130	
Benzo(b)fluoranthene	ug/L	2	2.4	122	54-133	
Benzo(g,h,i)perylene	ug/L	2	1.4	72	33-132	
Benzo(k)fluoranthene	ug/L	2	2.3	117	59-143	
Chrysene	ug/L	2	2.5	124	70-157	
Dibenz(a,h)anthracene	ug/L	2	1.3	64	24-130	
Fluoranthene	ug/L	2	2.0	102	59-130	
Fluorene	ug/L	2	1.6	82	49-130	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.8	89	52-130	
Naphthalene	ug/L	2	1.5	75	45-130	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

LABORATORY CONTROL SAMPLE: 1280746

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/L	2	1.9	93	60-130	
Pyrene	ug/L	2	2.0	101	64-147	
2-Fluorobiphenyl (S)	%			74	40-130	
Terphenyl-d14 (S)	%			120	26-135	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1280747 1280748

Parameter	Units	40126723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/L	<0.0031	2	2	1.5	1.7	73	83	27-130	13	42	
2-Methylnaphthalene	ug/L	0.0037J	2	2	1.5	1.7	75	86	33-130	13	37	
Acenaphthene	ug/L	<0.0050	2	2	1.5	1.7	76	85	32-130	11	35	
Acenaphthylene	ug/L	<0.0049	2	2	1.6	1.7	78	86	34-130	10	29	
Anthracene	ug/L	<0.0040	2	2	1.6	1.7	79	84	31-130	7	29	
Benzo(a)anthracene	ug/L	<0.0051	2	2	1.8	1.8	89	90	35-135	0	20	
Benzo(a)pyrene	ug/L	<0.0044	2	2	1.9	1.9	95	96	21-139	1	22	
Benzo(b)fluoranthene	ug/L	<0.0053	2	2	2.2	2.3	110	114	26-144	4	20	
Benzo(g,h,i)perylene	ug/L	0.010J	2	2	1.1	1.0	53	52	10-142	2	20	
Benzo(k)fluoranthene	ug/L	<0.0056	2	2	1.9	2.0	96	100	21-155	4	20	
Chrysene	ug/L	<0.0042	2	2	2.2	2.2	111	111	46-157	1	20	
Dibenz(a,h)anthracene	ug/L	0.016J	2	2	1.0	0.99	50	49	10-143	2	20	
Fluoranthene	ug/L	<0.0094	2	2	1.9	1.9	95	95	35-138	1	20	
Fluorene	ug/L	<0.0040	2	2	1.5	1.8	77	88	28-130	13	27	
Indeno(1,2,3-cd)pyrene	ug/L	0.016J	2	2	1.5	1.5	73	72	16-139	1	20	
Naphthalene	ug/L	0.012J	2	2	1.5	1.7	73	83	35-130	13	39	
Phenanthrene	ug/L	<0.0077	2	2	1.8	1.9	87	95	41-131	8	22	
Pyrene	ug/L	<0.0077	2	2	1.9	1.9	96	96	50-151	0	20	
2-Fluorobiphenyl (S)	%						73	83	40-130			
Terphenyl-d14 (S)	%						113	115	26-135			

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
HS	Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40126723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40126723001	**POTABLE**	EPA 3510	OEXT/29395	EPA 8270 by HVI	MSSV/8655
40126723001	**POTABLE**	EPA 8260	MSV/31791		
40126723002	**TRIP BLANK**	EPA 8260	MSV/31791		

Pace Analytical®
www.pacelabs.com

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

Page 1 of

40126723

CHAIN OF CUSTODY

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

(Please Print Clearly)	
Company Name:	Endeavor Env. Services Inc
Branch/Location:	Green Bay
Project Contact:	Joseph Ramcheck
Phone:	920-437-2997
Project Number:	P101393.40
Project Name:	Old Dutch Mill
Project State:	WI
Sampled By (Print):	Joseph Ramcheck
Sampled By (Sign):	
PO #:	AECFA U:C
Regulatory Program:	

Quote #:	
Mail To Contact:	Joseph Ramcheck
Mail To Company:	Endeavor Env. Services Inc
Mail To Address:	2280-B Saukheiler Ct Green Bay WI 54313
Invoice To Contact:	Same as Report To
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

Matrix Codes

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

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	FILTERED? (YES/NO) Y/N	PRESERVATION (CODE)* Pick Letter	Analyses Requested	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
					N	N				
					B	A				
					VOC	PAH				
001	Potable	11/1/16	1350	DW	X	X			3-40ml V[B] 1-1lg[A]	
002	Trip Blank	↓	—	Trip	X				1-40ml V[B]	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:	Relinquished By:	Date/Time:	Received By:	Date/Time:
		11/4/16 1105	Loree Pace	11/4/16 1105
Transmit Prelim Rush Results by (complete what you want):	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #1:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Email #2:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Telephone:	Relinquished By:	Date/Time:	Received By:	Date/Time:
Fax:	Relinquished By:	Date/Time:	Received By:	Date/Time:

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

PACE Project No. 40126723

Receipt Temp = 2.0 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL

Sample Condition Upon Receipt

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

Pace Analytical™

Project **WO# : 40126723**

40126723

Client Name: Endeavor Ev Suenu

Courier: ☐ Fed Ex ☐ UPS ☒ Client ☐ Pace Other: _____

Tracking #: _____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Custody Seal on Samples Present: ☐ yes ☒ no Seals intact: ☐ yes ☐ no

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other _____

Thermometer Used N/A **Type of Ice:** (Wet) Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: R0C /Corr: **Biological Tissue is Frozen:** ☐ yes ☐ no

Temp Blank Present: ☐ yes ☒ no

Person examining contents:
Date: 1/4/16
Initials: TL

Temp should be above freezing to 6°C for all sample except Biota.
Frozen Biota Samples should be received ≤ 0°C.

				Comments:
Chain of Custody Present:	☒Yes	☐No	☐N/A	1.
Chain of Custody Filled Out:	☒Yes	☐No	☐N/A	2.
Chain of Custody Relinquished:	☒Yes	☐No	☐N/A	3.
Sampler Name & Signature on COC:	☒Yes	☐No	☐N/A	4.
Samples Arrived within Hold Time:	☒Yes	☐No	☐N/A	5.
- VOA Samples frozen upon receipt	☐Yes	☐No		Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes	☒No	☐N/A	6.
Rush Turn Around Time Requested:	☐Yes	☒No	☐N/A	7.
Sufficient Volume:	☒Yes	☐No	☐N/A	8.
Correct Containers Used:	☒Yes	☐No	☐N/A	9.
-Pace Containers Used:	☒Yes	☐No	☐N/A	
-Pace IR Containers Used:	☐Yes	☐No	☒N/A	
Containers Intact:	☒Yes	☐No	☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes	☐No	☒N/A	11.
Sample Labels match COC:	☒Yes	☐No	☐N/A	12.
-Includes date/time/ID/Analysis Matrix: W				
All containers needing preservation have been checked. (Non-Compliance noted in 13.)	☐Yes	☐No	☒N/A	13. ☐ HNO3 ☐ H2SO4 ☐ NaOH ☐ NaOH +ZnAct
All containers needing preservation are found to be in compliance with EPA recommendation. (HNO3, H2SO4 ≤2; NaOH+ZnAct ≥9, NaOH ≥12)	☐Yes	☐No	☒N/A	
exceptions: (VOA) coliform, TOC, TOX, TOH, O&G, WIDROW, Phenolics, OTHER:	☒Yes	☐No		Initial when completed / Lab Std #ID of preservative / Date/Time:
Headspace in VOA Vials (>6mm):	☒Yes	☐No	☐N/A	14 002 1/4/16 TL
Trip Blank Present:	☒Yes	☐No	☐N/A	15.
Trip Blank Custody Seals Present	☒Yes	☐No	☐N/A	
Pace Trip Blank Lot # (if purchased): Covered				

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

Person Contacted: Joe Ranchuck Date/Time: 1-5-16

Comments/ Resolution:

Samples to be run via method 8260 VOCs + 8270 with PAHs. 1-5-16 cor

Project Manager Review: _____ **Date:** 1-5-16

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-Feb-16*

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E30425

Lab Code 5030425A
Sample ID MW-1
Sample Matrix Water
Sample Date 2/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	2
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	2/4/2016	2/4/2016	MDK	1
Anthracene	0.024 "J"	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)anthracene	0.042 "J"	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)pyrene	0.032 "J"	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(b)fluoranthene	0.054 "J"	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(g,h,i)perylene	0.031 "J"	ug/l	0.024	0.078	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(k)fluoranthene	0.020 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Chrysene	0.035 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluoranthene	0.082	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluorene	0.019 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	2
Indeno(1,2,3-cd)pyrene	0.022 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
1-Methyl naphthalene	0.029 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	2
2-Methyl naphthalene	0.029 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	2
Naphthalene	0.030 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	2
Phenanthrene	0.055	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Pyrene	0.071	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
PVOC										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/4/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/4/2016	CJR	1
Toluene	0.40 "J"	ug/l	0.39	1.2	1	GRO95/8021		2/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/4/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/4/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/4/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30425
Project # P101393.40

Lab Code 5030425B
Sample ID MW-2
Sample Matrix Water
Sample Date 2/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	2/4/2016	2/4/2016	MDK	1
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)pyrene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(b)fluoranthene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(g,h,i)perylene	< 0.024	ug/l	0.024	0.078	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(k)fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Chrysene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
1-Methyl naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
2-Methyl naphthalene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Naphthalene	0.021 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Phenanthrene	0.026 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
PVOC										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/4/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/4/2016	CJR	1
Toluene	0.39 "J"	ug/l	0.39	1.2	1	GRO95/8021		2/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/4/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/4/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/4/2016	CJR	1

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E30425

Lab Code 5030425C
Sample ID MW-3
Sample Matrix Water
Sample Date 2/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	2/4/2016	2/4/2016	MDK	1
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)anthracene	0.033 "J"	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)pyrene	0.026 "J"	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(b)fluoranthene	0.039 "J"	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(g,h,i)perylene	0.036 "J"	ug/l	0.024	0.078	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(k)fluoranthene	0.039 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Chrysene	0.031 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluoranthene	0.026 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.033 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
1-Methyl naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
2-Methyl naphthalene	0.022 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Naphthalene	0.025 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Phenanthrene	0.025 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Pyrene	0.024 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
PVOC										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/4/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/4/2016	CJR	1
Toluene	0.49 "J"	ug/l	0.39	1.2	1	GRO95/8021		2/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/4/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/4/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/4/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30425
Project # P101393.40

Lab Code 5030425D
Sample ID MW-4
Sample Matrix Water
Sample Date 2/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	2/4/2016	2/4/2016	MDK	1
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(a)pyrene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(b)fluoranthene	< 0.019	ug/l	0.019	0.062	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(g,h,i)perylene	< 0.024	ug/l	0.024	0.078	1	M8270C	2/4/2016	2/4/2016	MDK	1
Benzo(k)fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Chrysene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
1-Methyl naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
2-Methyl naphthalene	0.020 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Naphthalene	0.031 "J"	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
Phenanthrene	0.028 "J"	ug/l	0.017	0.054	1	M8270C	2/4/2016	2/4/2016	MDK	1
Pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	2/4/2016	2/4/2016	MDK	1
PVOC										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		2/4/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		2/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/4/2016	CJR	1
Toluene	2.19	ug/l	0.39	1.2	1	GRO95/8021		2/4/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		2/4/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		2/4/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		2/4/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		2/4/2016	CJR	1

Lab Code 5030425E
Sample ID GP-13
Sample Matrix Water
Sample Date 2/2/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC										
Benzene	1.78	ug/l	0.46	1.5	1	GRO95/8021		2/5/2016	CJR	1
Ethylbenzene	16.9	ug/l	0.73	2.3	1	GRO95/8021		2/5/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		2/5/2016	CJR	1
Toluene	13.4	ug/l	0.39	1.2	1	GRO95/8021		2/5/2016	CJR	1
1,2,4-Trimethylbenzene	28.4	ug/l	0.68	2.2	1	GRO95/8021		2/5/2016	CJR	1
1,3,5-Trimethylbenzene	70	ug/l	0.83	2.6	1	GRO95/8021		2/5/2016	CJR	1
m&p-Xylene	72	ug/l	1.4	4.4	1	GRO95/8021		2/5/2016	CJR	1
o-Xylene	58	ug/l	0.66	2.1	1	GRO95/8021		2/5/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E30425
Project # P101393.40

Lab Code 5030425F
Sample ID MW-5
Sample Matrix Water
Sample Date 2/2/2016

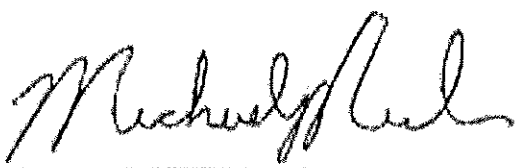
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PAH SIM										
Acenaphthene	< 2	ug/l	2	6.4	100	M8270C	2/4/2016	2/5/2016	MDK	1
Acenaphthylene	< 2.1	ug/l	2.1	6.8	100	M8270C	2/4/2016	2/5/2016	MDK	1
Anthracene	< 2	ug/l	2	6.4	100	M8270C	2/4/2016	2/5/2016	MDK	1
Benzo(a)anthracene	< 1.9	ug/l	1.9	6.2	100	M8270C	2/4/2016	2/5/2016	MDK	1
Benzo(a)pyrene	< 1.9	ug/l	1.9	6.2	100	M8270C	2/4/2016	2/5/2016	MDK	1
Benzo(b)fluoranthene	< 1.9	ug/l	1.9	6.2	100	M8270C	2/4/2016	2/5/2016	MDK	1
Benzo(g,h,i)perylene	< 2.4	ug/l	2.4	7.8	100	M8270C	2/4/2016	2/5/2016	MDK	1
Benzo(k)fluoranthene	< 1.8	ug/l	1.8	5.7	100	M8270C	2/4/2016	2/5/2016	MDK	1
Chrysene	< 1.7	ug/l	1.7	5.4	100	M8270C	2/4/2016	2/5/2016	MDK	1
Dibenzo(a,h)anthracene	< 2.5	ug/l	2.5	8.1	100	M8270C	2/4/2016	2/5/2016	MDK	1
Fluoranthene	< 1.8	ug/l	1.8	5.7	100	M8270C	2/4/2016	2/5/2016	MDK	1
Fluorene	< 1.7	ug/l	1.7	5.4	100	M8270C	2/4/2016	2/5/2016	MDK	1
Indeno(1,2,3-cd)pyrene	< 1.8	ug/l	1.8	5.7	100	M8270C	2/4/2016	2/5/2016	MDK	1
1-Methyl naphthalene	70	ug/l	1.8	5.7	100	M8270C	2/4/2016	2/5/2016	MDK	1
2-Methyl naphthalene	152	ug/l	1.7	5.4	100	M8270C	2/4/2016	2/5/2016	MDK	1
Naphthalene	268	ug/l	1.8	5.7	100	M8270C	2/4/2016	2/5/2016	MDK	1
Phenanthrene	< 1.7	ug/l	1.7	5.4	100	M8270C	2/4/2016	2/5/2016	MDK	1
Pyrene	< 1.8	ug/l	1.8	5.7	100	M8270C	2/4/2016	2/5/2016	MDK	1
PVOC										
Benzene	< 23	ug/l	23	75	50	GRO95/8021		2/4/2016	CJR	1
Ethylbenzene	410	ug/l	36.5	115	50	GRO95/8021		2/4/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 24.5	ug/l	24.5	80	50	GRO95/8021		2/4/2016	CJR	1
Toluene	370	ug/l	19.5	60	50	GRO95/8021		2/4/2016	CJR	1
1,2,4-Trimethylbenzene	560	ug/l	34	110	50	GRO95/8021		2/4/2016	CJR	1
1,3,5-Trimethylbenzene	287	ug/l	41.5	130	50	GRO95/8021		2/4/2016	CJR	1
m&p-Xylene	580	ug/l	70	220	50	GRO95/8021		2/4/2016	CJR	1
o-Xylene	257	ug/l	33	105	50	GRO95/8021		2/4/2016	CJR	1

"J" Flag: Analyte detected between 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.

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.

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # Nº 2821

Page 1 of 1

Sample Handling Request
Rush Analysis Date Required
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #: PRJ393.40

Sampler: (signature)

Project (Name / Location): Old Dutch Mill

Reports To: Joseph Ranchock	Invoice To: Same as "Report To"
Company: Endeavor Env. Services Inc.	Company:
Address: 2280-B Sunset Park Court	Address:
City State Zip: Green Bay WI 54313	City State Zip:
Phone: 920-437-2997	Phone:
FAX: 920-437-3066	FAX:

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
560425A	MW-1	2/1/16	0955		X	N	3	GW	HCl/None
B	MW-2		1045						
C	MW-3		1115						
D	MW-4		1205						
E	GP-13		1220				2		HCl
F	MW-5		1250				3		HCl/None

Analysis Requested / **Other Analysis**

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS	Same PID FID
					X		X							
					X		X							
					X		X							
					X		X							
							X							
					X		X							X
														X

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

PFCFA WI:C only

X hot

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Courier
Temp. of Temp. Blank ___ °C On Ice: Y
Cooler seal intact upon receipt: ___ Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1514	2/4/16			

Received in Laboratory By: Time: 15:18 Date: 2/2/16

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 *24-May-16*

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E31035

Lab Code 5031035A
Sample ID MW-1
Sample Matrix Water
Sample Date 5/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/21/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/21/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/21/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/21/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/21/2016	CJR	1

Lab Code 5031035B
Sample ID MW-2
Sample Matrix Water
Sample Date 5/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/21/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/21/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/21/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/21/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/21/2016	CJR	1

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E31035

Lab Code 5031035C
Sample ID MW-3
Sample Matrix Water
Sample Date 5/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/21/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/21/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/21/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/21/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/21/2016	CJR	1

Lab Code 5031035D
Sample ID MW-4
Sample Matrix Water
Sample Date 5/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/21/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/21/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/21/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/21/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/21/2016	CJR	1

Lab Code 5031035E
Sample ID MW-5
Sample Matrix Water
Sample Date 5/10/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 22	ug/l	22	70	50	8260B		5/21/2016	CJR	1
Ethylbenzene	163	ug/l	35.5	115	50	8260B		5/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 55	ug/l	55	185	50	8260B		5/21/2016	CJR	1
Naphthalene	304	ug/l	80	260	50	8260B		5/21/2016	CJR	1
Toluene	73	ug/l	22	70	50	8260B		5/21/2016	CJR	1
1,2,4-Trimethylbenzene	420	ug/l	80	250	50	8260B		5/21/2016	CJR	1
1,3,5-Trimethylbenzene	178 "J"	ug/l	75	240	50	8260B		5/21/2016	CJR	1
m&p-Xylene	224 "J"	ug/l	110	345	50	8260B		5/21/2016	CJR	1
o-Xylene	70 "J"	ug/l	45	145	50	8260B		5/21/2016	CJR	1

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E31035

Lab Code 5031035F
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 5/10/2016

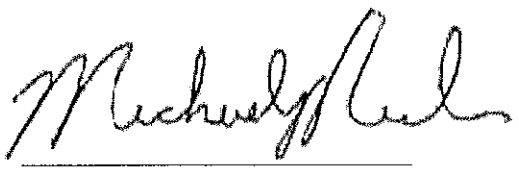
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/21/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/21/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/21/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/21/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/21/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/21/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/21/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/21/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	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.

Authorized Signature



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 *07-Sep-16*

Project Name OLD DUTCH MILL **Invoice #** E31621
Project # P101393.40

Lab Code 5031621A
Sample ID MW-1
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		8/29/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		8/29/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		8/29/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		8/29/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		8/29/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		8/29/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		8/29/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		8/29/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		8/29/2016	CJR	1

Lab Code 5031621B
Sample ID MW-2
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		8/29/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		8/29/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		8/29/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		8/29/2016	CJR	1
Toluene	0.42 "J"	ug/l	0.39	1.2	1	GRO95/8021		8/29/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		8/29/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		8/29/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		8/29/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		8/29/2016	CJR	1

Project Name OLD DUTCH MILL **Invoice #** E31621
Project # P101393.40

Lab Code 5031621C
Sample ID MW-3
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		8/29/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		8/29/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		8/29/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		8/29/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		8/29/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		8/29/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		8/29/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		8/29/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		8/29/2016	CJR	1

Lab Code 5031621D
Sample ID MW-4
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		8/29/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		8/29/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		8/29/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		8/29/2016	CJR	1
Toluene	0.62 "J"	ug/l	0.39	1.2	1	GRO95/8021		8/29/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		8/29/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		8/29/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		8/29/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		8/29/2016	CJR	1

Lab Code 5031621E
Sample ID MW-5
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	4.8 "J"	ug/l	4.6	15	10	GRO95/8021		8/30/2016	CJR	1
Ethylbenzene	183	ug/l	7.3	23	10	GRO95/8021		8/30/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 4.9	ug/l	4.9	16	10	GRO95/8021		8/30/2016	CJR	1
Naphthalene	173	ug/l	26	83	10	GRO95/8021		8/30/2016	CJR	1
Toluene	56	ug/l	3.9	12	10	GRO95/8021		8/30/2016	CJR	1
1,2,4-Trimethylbenzene	380	ug/l	6.8	22	10	GRO95/8021		8/30/2016	CJR	1
1,3,5-Trimethylbenzene	199	ug/l	8.3	26	10	GRO95/8021		8/30/2016	CJR	1
m&p-Xylene	222	ug/l	14	44	10	GRO95/8021		8/30/2016	CJR	1
o-Xylene	70	ug/l	6.6	21	10	GRO95/8021		8/30/2016	CJR	1

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E31621

Lab Code 5031621F
Sample ID GP-13
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		8/30/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		8/30/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		8/30/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		8/30/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		8/30/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		8/30/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		8/30/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		8/30/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		8/30/2016	CJR	1

Lab Code 5031621G
Sample ID TRIP BLANK
Sample Matrix Water
Sample Date 8/23/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		8/29/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		8/29/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		8/29/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		8/29/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		8/29/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		8/29/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		8/29/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		8/29/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		8/29/2016	CJR	1

Project Name OLD DUTCH MILL
Project # P101393.40

Invoice # E31621

Lab Code 5031621H
Sample ID POTABLE
Sample Matrix Drinking Water
Sample Date 8/23/2016

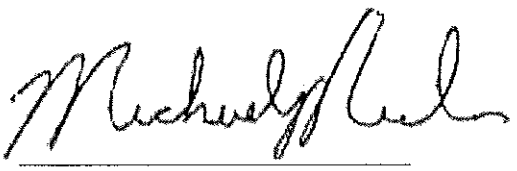
	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.2	ug/l	0.2	0.63	1	524.2		9/2/2016	CJR	1
Bromobenzene	< 0.35	ug/l	0.35	1.1	1	524.2		9/2/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	524.2		9/2/2016	CJR	1
Bromoform	< 0.53	ug/l	0.53	1.7	1	524.2		9/2/2016	CJR	1
Bromomethane	< 0.7	ug/l	0.7	2.2	1	524.2		9/2/2016	CJR	1
Carbon Tetrachloride	< 0.4	ug/l	0.4	1.3	1	524.2		9/2/2016	CJR	1
Chlorobenzene	< 0.24	ug/l	0.24	0.77	1	524.2		9/2/2016	CJR	1
Chloroethane	< 0.54	ug/l	0.54	1.7	1	524.2		9/2/2016	CJR	1
Chloroform	< 0.35	ug/l	0.35	1.1	1	524.2		9/2/2016	CJR	1
Chloromethane	< 0.89	ug/l	0.89	2.8	1	524.2		9/2/2016	CJR	1
2-Chlorotoluene	< 0.27	ug/l	0.27	0.85	1	524.2		9/2/2016	CJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	524.2		9/2/2016	CJR	1
Dibromochloromethane	< 0.32	ug/l	0.32	1	1	524.2		9/2/2016	CJR	1
Dibromomethane	< 0.55	ug/l	0.55	1.8	1	524.2		9/2/2016	CJR	1
1,4-Dichlorobenzene	< 0.28	ug/l	0.28	0.9	1	524.2		9/2/2016	CJR	1
1,3-Dichlorobenzene	< 0.34	ug/l	0.34	1.1	1	524.2		9/2/2016	CJR	1
1,2-Dichlorobenzene	< 0.31	ug/l	0.31	1	1	524.2		9/2/2016	CJR	1
Dichlorodifluoromethane	< 0.26	ug/l	0.26	0.82	1	524.2		9/2/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	524.2		9/2/2016	CJR	1
1,1-Dichloroethane	< 0.44	ug/l	0.44	1.4	1	524.2		9/2/2016	CJR	1
1,1-Dichloroethene	< 0.5	ug/l	0.5	1.6	1	524.2		9/2/2016	CJR	1
cis-1,2-Dichloroethene	< 0.48	ug/l	0.48	1.5	1	524.2		9/2/2016	CJR	1
trans-1,2-Dichloroethene	< 0.38	ug/l	0.38	1.2	1	524.2		9/2/2016	CJR	1
1,2-Dichloropropane	< 0.34	ug/l	0.34	1.1	1	524.2		9/2/2016	CJR	1
2,2-Dichloropropane	< 0.79	ug/l	0.79	2.5	1	524.2		9/2/2016	CJR	1
1,3-Dichloropropane	< 0.27	ug/l	0.27	0.86	1	524.2		9/2/2016	CJR	1
trans-1,3-Dichloropropene	< 0.39	ug/l	0.39	1.2	1	524.2		9/2/2016	CJR	1
cis-1,3-Dichloropropene	< 0.24	ug/l	0.24	0.78	1	524.2		9/2/2016	CJR	1
1,1-Dichloropropene	< 0.27	ug/l	0.27	0.86	1	524.2		9/2/2016	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	524.2		9/2/2016	CJR	1
Hexachlorobutadiene	< 0.78	ug/l	0.78	2.5	1	524.2		9/2/2016	CJR	1
Isopropylbenzene	< 0.27	ug/l	0.27	0.86	1	524.2		9/2/2016	CJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.77	1	524.2		9/2/2016	CJR	1
Methylene chloride	< 0.38	ug/l	0.38	1.2	1	524.2		9/2/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.42	ug/l	0.42	1.3	1	524.2		9/2/2016	CJR	1
Naphthalene	< 0.46	ug/l	0.46	1.5	1	524.2		9/2/2016	CJR	1
Styrene	< 0.17	ug/l	0.17	0.55	1	524.2		9/2/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.27	ug/l	0.27	0.85	1	524.2		9/2/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.26	ug/l	0.26	0.82	1	524.2		9/2/2016	CJR	1
Tetrachloroethene	< 0.41	ug/l	0.41	1.3	1	524.2		9/2/2016	CJR	1
Toluene	< 0.28	ug/l	0.28	0.88	1	524.2		9/2/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.5	ug/l	0.5	1.6	1	524.2		9/2/2016	CJR	1
1,1,1-Trichloroethane	< 0.47	ug/l	0.47	1.5	1	524.2		9/2/2016	CJR	1
1,1,2-Trichloroethane	< 0.39	ug/l	0.39	1.2	1	524.2		9/2/2016	CJR	1
Trichloroethene (TCE)	< 0.32	ug/l	0.32	1	1	524.2		9/2/2016	CJR	1
Trichlorofluoromethane	< 0.49	ug/l	0.49	1.6	1	524.2		9/2/2016	CJR	1
1,2,3-Trichloropropane	< 0.44	ug/l	0.44	1.4	1	524.2		9/2/2016	CJR	1
Trichlorotrifluoroethane	< 0.37	ug/l	0.37	1.2	1	524.2		9/2/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.12	ug/l	0.12	0.37	1	524.2		9/2/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.19	ug/l	0.19	0.6	1	524.2		9/2/2016	CJR	1
Vinyl Chloride	< 0.18	ug/l	0.18	0.58	1	524.2		9/2/2016	CJR	1
m&p-Xylene	< 0.37	ug/l	0.37	1.2	1	524.2		9/2/2016	CJR	1
o-Xylene	< 0.32	ug/l	0.32	1	1	524.2		9/2/2016	CJR	1

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	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.

Authorized Signature



CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # No 2882

Page 1 of 1

Sample Handling Request
____ Rush Analysis Date Required ____
(Rushes accepted only with prior authorization)
X Normal Turn Around

Lab I.D. #

Account No. : | Quote No.:

Project #: P101393.40

Sampler: (signature)

Project (Name / Location): Old Dutch Mill

Reports To: Joseph Ramchock	Invoice To: Same as "Report To"
Company: Extensive Env. Services Inc	Company
Address: 2260-B Southside Court	Address
City State Zip: Green Bay, WI 54313	City State Zip
Phone: 920-437-2997	Phone
FAX: 920-437-3066	FAX

Lab I.D	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
503162-A	MW-1	8/23/16	1600		X	N	3	GW	HCl
B	MW-2		1620						
C	MW-3		1630						
D	MW-4		1640						
E	MW-5		1710						
F	GP-13		1720						
G	Trip Blank		—				1	Trip	
H	Potable		1640				3	DW	

Analysis Requested

DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-RCRA METALS
								X					
								X					
								X					
								X					
								X					
								X					
								X					
											X		

Other Analysis: PID/FID

Comments/Special Instructions ("Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

DECFA U:C

Sample Integrity - To be completed by receiving lab.
Method of Shipment: Client
Temp. of Temp. Blank ____ °C On Ice X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	1130	8/25/16	Haley Ramirez	1130	8/25/16
Haley Ramirez	1245	8/25/16			

Received in Laboratory By: Med-SEC Time: 1245 Date: 8-25-16

ALS Environmental

16-Nov-2016

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

Re: **Old Dutch Mill P101393.40** Work Order: **1611473**

Dear Joe,

ALS Environmental received 7 samples on 05-Nov-2016 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.

Sample results are compliant with industry accepted practices and Quality Control results achieved 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 Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 21.

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

Sincerely,

Alex Csaszar

Electronically approved by: Alex Csaszar

Alex Csaszar
Project Manager

NELAP ACCREDITED LABORATORY
Certificate No: WI: 399084510

ALS Group, USA

Date: 16-Nov-16

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
Work Order: 1611473

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1611473-01	MW-1	Groundwater		11/3/2016 13:15	11/5/2016 09:30	☐
1611473-02	MW-2	Groundwater		11/3/2016 13:35	11/5/2016 09:30	☐
1611473-03	MW-3	Groundwater		11/3/2016 14:00	11/5/2016 09:30	☐
1611473-04	MW-4	Groundwater		11/3/2016 14:30	11/5/2016 09:30	☐
1611473-05	GP-13	Groundwater		11/3/2016 14:35	11/5/2016 09:30	☐
1611473-06	MW-5	Groundwater		11/3/2016 15:15	11/5/2016 09:30	☐
1611473-07	Trip Blank	Water		11/3/2016	11/5/2016 09:30	☐

Client:	Endeavor Environmental Services, Inc.
Project:	Old Dutch Mill P101393.40
Work Order:	1611473

Case Narrative

Samples for the above noted Work Order were received on 11/05/2016. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, sample condition, preservation, and temperature compliance.
In order to ensure compliance with NR 149 criteria, please note the following report format:
(1) The Limit of Detection (LOD) is reported as the MDL (Method Detection Limit)
(2) The Limit of Quantitation (LOQ) is reported as the PQL (Practical Quantitation Limit)
(3) All reported concentrations, including those for the LOD and LOQ, are adjusted for any required dilutions
(4) All reported concentrations, including those for the LOD and LOQ, are adjusted for moisture content when samples are reported on a dry weight basis.

Samples were analyzed according to the analytical methodology previously documented in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Detail as to the associated samples can be found at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, acronyms, and units utilized in reporting.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R200474, Method VOC_8260_W, Sample 1611473-02A: Verification of sample preservation indicated a pH >2.

Batch R200527, Method VOC_8260_W, Sample 1611473-02A: Verification of sample preservation indicated a pH >2.

Batch R200527, Method VOC_8260_W, Samples 1611473-02A MS and MSD: The MS and MSD recoveries were below the lower control limits for MTBE. The reported result in the parent sample may be biased low for this analyte.

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
WorkOrder: 1611473

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	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
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter

ALS Group, USA

Date: *16-Nov-16*

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
Sample ID: MW-1
Collection Date: 11/3/2016 01:15 PM

Work Order: 1611473
Lab ID: 1611473-01
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **BJB**
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	11/15/2016 02:31
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	11/15/2016 02:31
Benzene	U		0.30	1.0	µg/L	1	11/15/2016 02:31
Ethylbenzene	U		0.40	1.0	µg/L	1	11/15/2016 02:31
m,p-Xylene	U		0.98	2.0	µg/L	1	11/15/2016 02:31
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/15/2016 02:31
Naphthalene	U		0.18	5.0	µg/L	1	11/15/2016 02:31
o-Xylene	U		0.35	1.0	µg/L	1	11/15/2016 02:31
Toluene	U		0.37	1.0	µg/L	1	11/15/2016 02:31
Xylenes, Total	U		1.3	3.0	µg/L	1	11/15/2016 02:31
Surr: 1,2-Dichloroethane-d4	*100*			*75-120*	*%REC*	1	11/15/2016 02:31
Surr: 4-Bromofluorobenzene	*96.4*			*80-110*	*%REC*	1	11/15/2016 02:31
Surr: Dibromofluoromethane	*95.1*			*85-115*	*%REC*	1	11/15/2016 02:31
Surr: Toluene-d8	*96.2*			*85-110*	*%REC*	1	11/15/2016 02:31

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
Sample ID: MW-2
Collection Date: 11/3/2016 01:35 PM

Work Order: 1611473
Lab ID: 1611473-02
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **BJB**
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	11/15/2016 02:56
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	11/15/2016 02:56
Benzene	U		0.30	1.0	µg/L	1	11/15/2016 02:56
Ethylbenzene	U		0.40	1.0	µg/L	1	11/15/2016 02:56
m,p-Xylene	U		0.98	2.0	µg/L	1	11/15/2016 02:56
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/15/2016 02:56
Naphthalene	U		0.18	5.0	µg/L	1	11/15/2016 02:56
o-Xylene	U		0.35	1.0	µg/L	1	11/15/2016 02:56
Toluene	U		0.37	1.0	µg/L	1	11/15/2016 02:56
Xylenes, Total	U		1.3	3.0	µg/L	1	11/15/2016 02:56
Surr: 1,2-Dichloroethane-d4	*103*			*75-120*	*%REC*	1	11/15/2016 02:56
Surr: 4-Bromofluorobenzene	*95.1*			*80-110*	*%REC*	1	11/15/2016 02:56
Surr: Dibromofluoromethane	*97.2*			*85-115*	*%REC*	1	11/15/2016 02:56
Surr: Toluene-d8	*97.0*			*85-110*	*%REC*	1	11/15/2016 02:56

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40 **Work Order:** 1611473
Sample ID: MW-3 **Lab ID:** 1611473-03
Collection Date: 11/3/2016 02:00 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **AK**
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	11/15/2016 19:00
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	11/15/2016 19:00
Benzene	U		0.30	1.0	µg/L	1	11/15/2016 19:00
Ethylbenzene	U		0.40	1.0	µg/L	1	11/15/2016 19:00
m,p-Xylene	U		0.98	2.0	µg/L	1	11/15/2016 19:00
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/15/2016 19:00
Naphthalene	U		0.18	5.0	µg/L	1	11/15/2016 19:00
o-Xylene	U		0.35	1.0	µg/L	1	11/15/2016 19:00
Toluene	U		0.37	1.0	µg/L	1	11/15/2016 19:00
Xylenes, Total	U		1.3	3.0	µg/L	1	11/15/2016 19:00
Surr: 1,2-Dichloroethane-d4	*90.8*			*75-120*	*%REC*	1	11/15/2016 19:00
Surr: 4-Bromofluorobenzene	*95.5*			*80-110*	*%REC*	1	11/15/2016 19:00
Surr: Dibromofluoromethane	*99.5*			*85-115*	*%REC*	1	11/15/2016 19:00
Surr: Toluene-d8	*88.6*			*85-110*	*%REC*	1	11/15/2016 19:00

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *16-Nov-16*

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
Sample ID: MW-4
Collection Date: 11/3/2016 02:30 PM

Work Order: 1611473
Lab ID: 1611473-04
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **BJB**
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	11/15/2016 03:20
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	11/15/2016 03:20
Benzene	U		0.30	1.0	µg/L	1	11/15/2016 03:20
Ethylbenzene	U		0.40	1.0	µg/L	1	11/15/2016 03:20
m,p-Xylene	U		0.98	2.0	µg/L	1	11/15/2016 03:20
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/15/2016 03:20
Naphthalene	U		0.18	5.0	µg/L	1	11/15/2016 03:20
o-Xylene	U		0.35	1.0	µg/L	1	11/15/2016 03:20
Toluene	U		0.37	1.0	µg/L	1	11/15/2016 03:20
Xylenes, Total	U		1.3	3.0	µg/L	1	11/15/2016 03:20
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	1	11/15/2016 03:20
Surr: 4-Bromofluorobenzene	*93.4*			*80-110*	*%REC*	1	11/15/2016 03:20
Surr: Dibromofluoromethane	*93.2*			*85-115*	*%REC*	1	11/15/2016 03:20
Surr: Toluene-d8	*94.8*			*85-110*	*%REC*	1	11/15/2016 03:20

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40 **Work Order:** 1611473
Sample ID: GP-13 **Lab ID:** 1611473-05
Collection Date: 11/3/2016 02:35 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **AK**
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	11/14/2016 12:45
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	11/14/2016 12:45
Benzene	U		0.30	1.0	µg/L	1	11/14/2016 12:45
Ethylbenzene	U		0.40	1.0	µg/L	1	11/14/2016 12:45
m,p-Xylene	U		0.98	2.0	µg/L	1	11/14/2016 12:45
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/14/2016 12:45
Naphthalene	U		0.18	5.0	µg/L	1	11/14/2016 12:45
o-Xylene	U		0.35	1.0	µg/L	1	11/14/2016 12:45
Toluene	U		0.37	1.0	µg/L	1	11/14/2016 12:45
Xylenes, Total	U		1.3	3.0	µg/L	1	11/14/2016 12:45
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	1	11/14/2016 12:45
Surr: 4-Bromofluorobenzene	*96.4*			*80-110*	*%REC*	1	11/14/2016 12:45
Surr: Dibromofluoromethane	*101*			*85-115*	*%REC*	1	11/14/2016 12:45
Surr: Toluene-d8	*97.8*			*85-110*	*%REC*	1	11/14/2016 12:45

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: *16-Nov-16*

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
Sample ID: MW-5
Collection Date: 11/3/2016 03:15 PM

Work Order: 1611473
Lab ID: 1611473-06
Matrix: GROUNDWATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **AK**
1,2,4-Trimethylbenzene	**220**		**7.4**	**20**	**µg/L**	20	11/14/2016 01:06
1,3,5-Trimethylbenzene	**110**		**5.7**	**20**	**µg/L**	20	11/14/2016 01:06
Benzene	**0.63**	J	**0.30**	**1.0**	**µg/L**	1	11/14/2016 20:24
Ethylbenzene	**88**		**8.1**	**20**	**µg/L**	20	11/14/2016 01:06
m,p-Xylene	**130**		**0.98**	**2.0**	**µg/L**	1	11/14/2016 20:24
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/14/2016 20:24
Naphthalene	**89**		**0.18**	**5.0**	**µg/L**	1	11/14/2016 20:24
o-Xylene	**46**		**0.35**	**1.0**	**µg/L**	1	11/14/2016 20:24
Toluene	**29**		**0.37**	**1.0**	**µg/L**	1	11/14/2016 20:24
Xylenes, Total	**170**		**1.3**	**3.0**	**µg/L**	1	11/14/2016 20:24
Surr: 1,2-Dichloroethane-d4	*99.6*			*75-120*	*%REC*	20	11/14/2016 01:06
Surr: 1,2-Dichloroethane-d4	*95.8*			*75-120*	*%REC*	1	11/14/2016 20:24
Surr: 4-Bromofluorobenzene	*98.8*			*80-110*	*%REC*	20	11/14/2016 01:06
Surr: 4-Bromofluorobenzene	*107*			*80-110*	*%REC*	1	11/14/2016 20:24
Surr: Dibromofluoromethane	*96.1*			*85-115*	*%REC*	20	11/14/2016 01:06
Surr: Dibromofluoromethane	*96.0*			*85-115*	*%REC*	1	11/14/2016 20:24
Surr: Toluene-d8	*100*			*85-110*	*%REC*	20	11/14/2016 01:06
Surr: Toluene-d8	*107*			*85-110*	*%REC*	1	11/14/2016 20:24

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Endeavor Environmental Services, Inc.
Project: Old Dutch Mill P101393.40
Sample ID: Trip Blank
Collection Date: 11/3/2016

Work Order: 1611473
Lab ID: 1611473-07
Matrix: WATER

Analyses	Result	Qual	MDL	PQL	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS		Method: **SW8260B**					Analyst: **AK**
1,2,4-Trimethylbenzene	U		0.37	1.0	µg/L	1	11/13/2016 20:55
1,3,5-Trimethylbenzene	U		0.29	1.0	µg/L	1	11/13/2016 20:55
Benzene	U		0.30	1.0	µg/L	1	11/13/2016 20:55
Ethylbenzene	U		0.40	1.0	µg/L	1	11/13/2016 20:55
m,p-Xylene	U		0.98	2.0	µg/L	1	11/13/2016 20:55
Methyl tert-butyl ether	U		0.12	1.0	µg/L	1	11/13/2016 20:55
Naphthalene	U		0.18	5.0	µg/L	1	11/13/2016 20:55
o-Xylene	U		0.35	1.0	µg/L	1	11/13/2016 20:55
Toluene	U		0.37	1.0	µg/L	1	11/13/2016 20:55
Xylenes, Total	U		1.3	3.0	µg/L	1	11/13/2016 20:55
Surr: 1,2-Dichloroethane-d4	*102*			*75-120*	*%REC*	1	11/13/2016 20:55
Surr: 4-Bromofluorobenzene	*96.2*			*80-110*	*%REC*	1	11/13/2016 20:55
Surr: Dibromofluoromethane	*98.4*			*85-115*	*%REC*	1	11/13/2016 20:55
Surr: Toluene-d8	*98.1*			*85-110*	*%REC*	1	11/13/2016 20:55

Note: See Qualifiers page for a list of qualifiers and their definitions.

Batch ID: **R200474** Instrument ID **VMS7** Method: **SW8260B**

MBLK Sample ID: **VBLKW2-161113-R200474** Units: **µg/L** Analysis Date: **11/13/2016 08:35 PM**

Client ID: Run ID: **VMS7_161113B** SeqNo: **4150570** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	0.37	1.0								
1,3,5-Trimethylbenzene	U	0.29	1.0								
Benzene	U	0.3	1.0								
Ethylbenzene	U	0.4	1.0								
m,p-Xylene	U	0.98	2.0								
Methyl tert-butyl ether	U	0.12	1.0								
Naphthalene	U	0.18	5.0								
o-Xylene	U	0.35	1.0								
Toluene	U	0.37	1.0								
Xylenes, Total	U	1.3	3.0								
Surr: 1,2-Dichloroethane-d4	*19.87*	0	0	*20*	0	*99.4*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*18.95*	0	0	*20*	0	*94.8*	*80-110*	0			
Surr: Dibromofluoromethan	*19.79*	0	0	*20*	0	*99*	*85-115*	0			
Surr: Toluene-d8	*19.87*	0	0	*20*	0	*99.4*	*85-110*	0			

LCS Sample ID: **VLCSW2-161113-R200474** Units: **µg/L** Analysis Date: **11/13/2016 07:53 PM**

Client ID: Run ID: **VMS7_161113B** SeqNo: **4150567** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	21.48	0.37	1.0	20	0	107	75-130	0			
1,3,5-Trimethylbenzene	20.77	0.29	1.0	20	0	104	75-130	0			
Benzene	21.9	0.3	1.0	20	0	110	85-125	0			
Ethylbenzene	21.42	0.4	1.0	20	0	107	85-125	0			
m,p-Xylene	42.76	0.98	2.0	40	0	107	75-130	0			
Methyl tert-butyl ether	20.8	0.12	1.0	20	0	104	80-130	0			
Naphthalene	20.49	0.18	5.0	20	0	102	55-160	0			
o-Xylene	21.28	0.35	1.0	20	0	106	80-125	0			
Toluene	20.87	0.37	1.0	20	0	104	85-125	0			
Xylenes, Total	64.04	1.3	3.0	60	0	107	80-126	0			
Surr: 1,2-Dichloroethane-d4	*19.77*	0	0	*20*	0	*98.8*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*19.88*	0	0	*20*	0	*99.4*	*80-110*	0			
Surr: Dibromofluoromethan	*20.45*	0	0	*20*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*19.48*	0	0	*20*	0	*97.4*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1611473
Project: Old Dutch Mill P101393.40

QC BATCH REPORT

Batch ID: **R200474** Instrument ID **VMS7** Method: **SW8260B**

MS Sample ID: **1611472-03A MS** Units: **µg/L** Analysis Date: **11/14/2016 03:53 A**
Client ID: Run ID: **VMS7_161113B** SeqNo: **4150591** Prep Date: DF: **5**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	100.1	1.9	5.0	100	0	100	75-130	0			
1,3,5-Trimethylbenzene	96	1.4	5.0	100	0	96	75-130	0			
Benzene	111.3	1.5	5.0	100	0	111	85-125	0			
Ethylbenzene	104.6	2	5.0	100	0	105	85-125	0			
m,p-Xylene	214	4.9	10	200	0	107	75-130	0			
Methyl tert-butyl ether	89.2	0.58	5.0	100	0	89.2	80-130	0			
Naphthalene	95	0.88	25	100	0	95	55-160	0			
o-Xylene	104.7	1.8	5.0	100	0	105	80-125	0			
Toluene	106.6	1.8	5.0	100	0	107	85-125	0			
Xylenes, Total	318.7	6.6	15	300	0	106	80-126	0			
Surr: 1,2-Dichloroethane-d4	*102.8*	0	0	*100*	0	*103*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*101.6*	0	0	*100*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethan	*100.7*	0	0	*100*	0	*101*	*85-115*	0			
Surr: Toluene-d8	*100.2*	0	0	*100*	0	*100*	*85-110*	0			

MSD Sample ID: **1611472-03A MSD** Units: **µg/L** Analysis Date: **11/14/2016 04:13 A**
Client ID: Run ID: **VMS7_161113B** SeqNo: **4150592** Prep Date: DF: **5**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	87.65	1.9	5.0	100	0	87.6	75-130	100.1	13.3	30	
1,3,5-Trimethylbenzene	84.9	1.4	5.0	100	0	84.9	75-130	96	12.3	30	
Benzene	97	1.5	5.0	100	0	97	85-125	111.3	13.7	30	
Ethylbenzene	92.6	2	5.0	100	0	92.6	85-125	104.6	12.2	30	
m,p-Xylene	187	4.9	10	200	0	93.5	75-130	214	13.5	30	
Methyl tert-butyl ether	83.8	0.58	5.0	100	0	83.8	80-130	89.2	6.24	30	
Naphthalene	84.95	0.88	25	100	0	85	55-160	95	11.2	30	
o-Xylene	92.2	1.8	5.0	100	0	92.2	80-125	104.7	12.7	30	
Toluene	94.9	1.8	5.0	100	0	94.9	85-125	106.6	11.6	30	
Xylenes, Total	279.2	6.6	15	300	0	93.1	80-126	318.7	13.2	30	
Surr: 1,2-Dichloroethane-d4	*102.2*	0	0	*100*	0	*102*	*75-120*	102.8	*0.536*	*30*	
Surr: 4-Bromofluorobenzen	*100.6*	0	0	*100*	0	*101*	*80-110*	101.6	*1.04*	*30*	
Surr: Dibromofluoromethan	*100.6*	0	0	*100*	0	*101*	*85-115*	100.7	*0.0497*	*30*	
Surr: Toluene-d8	*97.85*	0	0	*100*	0	*97.8*	*85-110*	100.2	*2.37*	*30*	

The following samples were analyzed in this batch:

1611473-01A	1611473-02A	1611473-03A
1611473-04A	1611473-05A	1611473-06A
1611473-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1611473
Project: Old Dutch Mill P101393.40

QC BATCH REPORT

Batch ID: **R200521A** Instrument ID **VMS7** Method: **SW8260B**

MBLK Sample ID: **VBLKW1-161114-R200521A** Units: µg/L Analysis Date: **11/14/2016 01:26 PM**
Client ID: Run ID: **VMS7_161114A** SeqNo: **4152805** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	0.3	1.0								
m,p-Xylene	U	0.98	2.0								
Methyl tert-butyl ether	U	0.12	1.0								
Naphthalene	U	0.18	5.0								
o-Xylene	U	0.35	1.0								
Toluene	U	0.37	1.0								
Xylenes, Total	U	1.3	3.0								
Surr: 1,2-Dichloroethane-d4	*20.03*	0	0	*20*	0	*100*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*19.72*	0	0	*20*	0	*98.6*	*80-110*	0			
Surr: Dibromofluoromethan	*19.55*	0	0	*20*	0	*97.8*	*85-115*	0			
Surr: Toluene-d8	*19.8*	0	0	*20*	0	*99*	*85-110*	0			

LCS Sample ID: **VLCSW1-161114-R200521A** Units: µg/L Analysis Date: **11/14/2016 12:24 PM**
Client ID: Run ID: **VMS7_161114A** SeqNo: **4152804** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.06	0.3	1.0	20	0	105	85-125	0			
m,p-Xylene	40.32	0.98	2.0	40	0	101	75-130	0			
Methyl tert-butyl ether	18.09	0.12	1.0	20	0	90.4	80-130	0			
Naphthalene	17.93	0.18	5.0	20	0	89.6	55-160	0			
o-Xylene	20.2	0.35	1.0	20	0	101	80-125	0			
Toluene	20.13	0.37	1.0	20	0	101	85-125	0			
Xylenes, Total	60.52	1.3	3.0	60	0	101	80-126	0			
Surr: 1,2-Dichloroethane-d4	*19.6*	0	0	*20*	0	*98*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*20.18*	0	0	*20*	0	*101*	*80-110*	0			
Surr: Dibromofluoromethan	*20.45*	0	0	*20*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*19.48*	0	0	*20*	0	*97.4*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1611473
Project: Old Dutch Mill P101393.40

QC BATCH REPORT

Batch ID: **R200521A** Instrument ID **VMS7** Method: **SW8260B**

MS Sample ID: **1611400-11A MS** Units: **µg/L** Analysis Date: **11/14/2016 09:26 PM**
Client ID: Run ID: **VMS7_161114A** SeqNo: **4152818** Prep Date: DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	222.1	3	10	200	0	111	85-125	0			
m,p-Xylene	550.6	9.8	20	400	115	109	75-130	0			
Methyl tert-butyl ether	191.9	1.2	10	200	0	96	80-130	0			
Naphthalene	230.8	1.8	50	200	20.3	105	55-160	0			
o-Xylene	234.4	3.5	10	200	21.5	106	80-125	0			
Toluene	222.2	3.7	10	200	2.9	110	85-125	0			
Xylenes, Total	785	13	30	600	136.5	108	80-126	0			
Surr: 1,2-Dichloroethane-d4	*194.3*	0	0	*200*	0	*97.2*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*197.7*	0	0	*200*	0	*98.8*	*80-110*	0			
Surr: Dibromofluoromethane	*199.4*	0	0	*200*	0	*99.7*	*85-115*	0			
Surr: Toluene-d8	*197.8*	0	0	*200*	0	*98.9*	*85-110*	0			

MSD Sample ID: **1611400-11A MSD** Units: **µg/L** Analysis Date: **11/14/2016 09:46 PM**
Client ID: Run ID: **VMS7_161114A** SeqNo: **4152819** Prep Date: DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	231.8	3	10	200	0	116	85-125	222.1	4.27	30	
m,p-Xylene	579.4	9.8	20	400	115	116	75-130	550.6	5.1	30	
Methyl tert-butyl ether	202.1	1.2	10	200	0	101	80-130	191.9	5.18	30	
Naphthalene	237.5	1.8	50	200	20.3	109	55-160	230.8	2.86	30	
o-Xylene	247.3	3.5	10	200	21.5	113	80-125	234.4	5.36	30	
Toluene	229.7	3.7	10	200	2.9	113	85-125	222.2	3.32	30	
Xylenes, Total	826.7	13	30	600	136.5	115	80-126	785	5.17	30	
Surr: 1,2-Dichloroethane-d4	*195.6*	0	0	*200*	0	*97.8*	*75-120*	194.3	*0.667*	*30*	
Surr: 4-Bromofluorobenzene	*200.6*	0	0	*200*	0	*100*	*80-110*	197.7	*1.46*	*30*	
Surr: Dibromofluoromethane	*196.1*	0	0	*200*	0	*98*	*85-115*	199.4	*1.67*	*30*	
Surr: Toluene-d8	*196.8*	0	0	*200*	0	*98.4*	*85-110*	197.8	*0.507*	*30*	

The following samples were analyzed in this batch: 1611473-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

QC BATCH REPORT

Batch ID: **R200527** Instrument ID **VMS8** Method: **SW8260B**

MBLK Sample ID: **VBLKW2-161114-R200527** Units: µg/L Analysis Date: **11/15/2016 12:06 PM**
Client ID: Run ID: **VMS8_161114A** SeqNo: **4153601** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	0.37	1.0								
1,3,5-Trimethylbenzene	U	0.29	1.0								
Benzene	U	0.3	1.0								
Ethylbenzene	U	0.4	1.0								
m,p-Xylene	U	0.98	2.0								
Methyl tert-butyl ether	U	0.12	1.0								
Naphthalene	U	0.18	5.0								
o-Xylene	U	0.35	1.0								
Toluene	U	0.37	1.0								
Xylenes, Total	U	1.3	3.0								
Surr: 1,2-Dichloroethane-d4	*21.41*	0	0	*20*	0	*107*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*17.94*	0	0	*20*	0	*89.7*	*80-110*	0			
Surr: Dibromofluoromethan	*20.55*	0	0	*20*	0	*103*	*85-115*	0			
Surr: Toluene-d8	*18.43*	0	0	*20*	0	*92.2*	*85-110*	0			

LCS Sample ID: **VLCSW3-161114-R200527** Units: µg/L Analysis Date: **11/14/2016 11:17 PM**
Client ID: Run ID: **VMS8_161114A** SeqNo: **4153590** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	17.79	0.37	1.0	20	0	89	75-130	0			
1,3,5-Trimethylbenzene	18.32	0.29	1.0	20	0	91.6	75-130	0			
Benzene	18.54	0.3	1.0	20	0	92.7	85-125	0			
Ethylbenzene	17.86	0.4	1.0	20	0	89.3	85-125	0			
m,p-Xylene	36.14	0.98	2.0	40	0	90.4	75-130	0			
Methyl tert-butyl ether	16.09	0.12	1.0	20	0	80.4	80-130	0			
Naphthalene	17.47	0.18	5.0	20	0	87.4	55-160	0			
o-Xylene	17.91	0.35	1.0	20	0	89.6	80-125	0			
Toluene	18.33	0.37	1.0	20	0	91.6	85-125	0			
Xylenes, Total	54.05	1.3	3.0	60	0	90.1	80-126	0			
Surr: 1,2-Dichloroethane-d4	*19.69*	0	0	*20*	0	*98.4*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*20.1*	0	0	*20*	0	*100*	*80-110*	0			
Surr: Dibromofluoromethan	*20.45*	0	0	*20*	0	*102*	*85-115*	0			
Surr: Toluene-d8	*19.42*	0	0	*20*	0	*97.1*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1611473
Project: Old Dutch Mill P101393.40

QC BATCH REPORT

Batch ID: **R200527** Instrument ID **VMS8** Method: **SW8260B**

MS Sample ID: **1611473-02A MS** Units: **µg/L** Analysis Date: **11/15/2016 08:34 A**
Client ID: **MW-2** Run ID: **VMS8_161114A** SeqNo: **4153599** Prep Date: DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	203.9	3.7	10	200	0	102	75-130	0			
1,3,5-Trimethylbenzene	204.8	2.9	10	200	0	102	75-130	0			
Benzene	208.7	3	10	200	0	104	85-125	0			
Ethylbenzene	201.6	4	10	200	0	101	85-125	0			
m,p-Xylene	413.2	9.8	20	400	0	103	75-130	0			
Methyl tert-butyl ether	159.3	1.2	10	200	0	79.6	80-130	0			S
Naphthalene	168.3	1.8	50	200	0	84.2	55-160	0			
o-Xylene	199.3	3.5	10	200	0	99.6	80-125	0			
Toluene	211.8	3.7	10	200	0	106	85-125	0			
Xylenes, Total	612.5	13	30	600	0	102	80-126	0			
Surr: 1,2-Dichloroethane-d4	*198.3*	0	0	*200*	0	*99.2*	*75-120*	0			
Surr: 4-Bromofluorobenzen	*203.6*	0	0	*200*	0	*102*	*80-110*	0			
Surr: Dibromofluoromethan	*191.4*	0	0	*200*	0	*95.7*	*85-115*	0			
Surr: Toluene-d8	*201.1*	0	0	*200*	0	*101*	*85-110*	0			

MSD Sample ID: **1611473-02A MSD** Units: **µg/L** Analysis Date: **11/15/2016 08:58 A**
Client ID: **MW-2** Run ID: **VMS8_161114A** SeqNo: **4153600** Prep Date: DF: **10**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	207.4	3.7	10	200	0	104	75-130	203.9	1.7	30	
1,3,5-Trimethylbenzene	210.9	2.9	10	200	0	105	75-130	204.8	2.93	30	
Benzene	206.8	3	10	200	0	103	85-125	208.7	0.915	30	
Ethylbenzene	208.3	4	10	200	0	104	85-125	201.6	3.27	30	
m,p-Xylene	418.4	9.8	20	400	0	105	75-130	413.2	1.25	30	
Methyl tert-butyl ether	156.5	1.2	10	200	0	78.2	80-130	159.3	1.77	30	S
Naphthalene	183.5	1.8	50	200	0	91.8	55-160	168.3	8.64	30	
o-Xylene	202.3	3.5	10	200	0	101	80-125	199.3	1.49	30	
Toluene	211.5	3.7	10	200	0	106	85-125	211.8	0.142	30	
Xylenes, Total	620.7	13	30	600	0	103	80-126	612.5	1.33	30	
Surr: 1,2-Dichloroethane-d4	*190*	0	0	*200*	0	*95*	*75-120*	198.3	*4.28*	*30*	
Surr: 4-Bromofluorobenzen	*198.2*	0	0	*200*	0	*99.1*	*80-110*	203.6	*2.69*	*30*	
Surr: Dibromofluoromethan	*193.8*	0	0	*200*	0	*96.9*	*85-115*	191.4	*1.25*	*30*	
Surr: Toluene-d8	*195.2*	0	0	*200*	0	*97.6*	*85-110*	201.1	*2.98*	*30*	

The following samples were analyzed in this batch: 1611473-01A 1611473-02A 1611473-04A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1611473
Project: Old Dutch Mill P101393.40

QC BATCH REPORT

Batch ID: **R200656A** Instrument ID **VMS5** Method: **SW8260B**

MBLK Sample ID: **VBLKW1-161115-R200656A** Units: **µg/L** Analysis Date: **11/15/2016 03:54 PM**
Client ID: Run ID: **VMS5_161115A** SeqNo: **4156188** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	0.37	1.0								
1,3,5-Trimethylbenzene	U	0.29	1.0								
Benzene	U	0.3	1.0								
Ethylbenzene	U	0.4	1.0								
m,p-Xylene	U	0.98	2.0								
Methyl tert-butyl ether	U	0.12	1.0								
Naphthalene	U	0.18	5.0								
o-Xylene	U	0.35	1.0								
Toluene	U	0.37	1.0								
Xylenes, Total	U	1.3	3.0								
Surr: 1,2-Dichloroethane-d4	*17.41*	0	0	*20*	0	*87*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*19.43*	0	0	*20*	0	*97.2*	*80-110*	0			
Surr: Dibromofluoromethane	*19.64*	0	0	*20*	0	*98.2*	*85-115*	0			
Surr: Toluene-d8	*18.2*	0	0	*20*	0	*91*	*85-110*	0			

LCS Sample ID: **VLCSW1-161115-R200656A** Units: **µg/L** Analysis Date: **11/15/2016 02:35 PM**
Client ID: Run ID: **VMS5_161115A** SeqNo: **4156187** Prep Date: DF: **1**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	21.81	0.37	1.0	20	0	109	75-130	0			
1,3,5-Trimethylbenzene	21.91	0.29	1.0	20	0	110	75-130	0			
Benzene	21.9	0.3	1.0	20	0	110	85-125	0			
Ethylbenzene	21.08	0.4	1.0	20	0	105	85-125	0			
m,p-Xylene	41.68	0.98	2.0	40	0	104	75-130	0			
Methyl tert-butyl ether	19.27	0.12	1.0	20	0	96.4	80-130	0			
Naphthalene	18.91	0.18	5.0	20	0	94.6	55-160	0			
o-Xylene	20.67	0.35	1.0	20	0	103	80-125	0			
Toluene	21	0.37	1.0	20	0	105	85-125	0			
Xylenes, Total	62.35	1.3	3.0	60	0	104	80-126	0			
Surr: 1,2-Dichloroethane-d4	*16.76*	0	0	*20*	0	*83.8*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*20.04*	0	0	*20*	0	*100*	*80-110*	0			
Surr: Dibromofluoromethane	*18.81*	0	0	*20*	0	*94*	*85-115*	0			
Surr: Toluene-d8	*18.42*	0	0	*20*	0	*92.1*	*85-110*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Endeavor Environmental Services, Inc.
Work Order: 1611473
Project: Old Dutch Mill P101393.40

QC BATCH REPORT

Batch ID: **R200656A** Instrument ID **VMS5** Method: **SW8260B**

MS Sample ID: **1611797-01B MS** Units: **µg/L** Analysis Date: **11/16/2016 12:41 PM**
Client ID: Run ID: **VMS5_161115A** SeqNo: **4156203** Prep Date: DF: **50**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	942.5	19	50	1000	140.5	80.2	75-130	0			
1,3,5-Trimethylbenzene	944.5	14	50	1000	75.5	86.9	75-130	0			
Benzene	3085	15	50	1000	2102	98.4	85-125	0			
Ethylbenzene	962	20	50	1000	22	94	85-125	0			
m,p-Xylene	1918	49	100	2000	66.5	92.6	75-130	0			
Methyl tert-butyl ether	843	5.8	50	1000	0	84.3	80-130	0			
Naphthalene	2589	8.8	250	1000	1432	116	55-160	0			
o-Xylene	961	18	50	1000	33	92.8	80-125	0			
Toluene	973	18	50	1000	30	94.3	85-125	0			
Xylenes, Total	2880	66	150	3000	99.5	92.7	80-126	0			
Surr: 1,2-Dichloroethane-d4	*810.5*	0	0	*1000*	0	*81*	*75-120*	0			
Surr: 4-Bromofluorobenzene	*981*	0	0	*1000*	0	*98.1*	*80-110*	0			
Surr: Dibromofluoromethane	*933*	0	0	*1000*	0	*93.3*	*85-115*	0			
Surr: Toluene-d8	*910.5*	0	0	*1000*	0	*91*	*85-110*	0			

MSD Sample ID: **1611797-01B MSD** Units: **µg/L** Analysis Date: **11/16/2016 01:07 A**
Client ID: Run ID: **VMS5_161115A** SeqNo: **4156202** Prep Date: DF: **50**

Analyte	Result	MDL	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	986	19	50	1000	140.5	84.6	75-130	942.5	4.51	30	
1,3,5-Trimethylbenzene	995.5	14	50	1000	75.5	92	75-130	944.5	5.26	30	
Benzene	2968	15	50	1000	2102	86.7	85-125	3085	3.85	30	
Ethylbenzene	992.5	20	50	1000	22	97	85-125	962	3.12	30	
m,p-Xylene	1963	49	100	2000	66.5	94.8	75-130	1918	2.29	30	
Methyl tert-butyl ether	828	5.8	50	1000	0	82.8	80-130	843	1.8	30	
Naphthalene	2154	8.8	250	1000	1432	72.3	55-160	2589	18.3	30	
o-Xylene	964	18	50	1000	33	93.1	80-125	961	0.312	30	
Toluene	996.5	18	50	1000	30	96.6	85-125	973	2.39	30	
Xylenes, Total	2927	66	150	3000	99.5	94.2	80-126	2880	1.64	30	
Surr: 1,2-Dichloroethane-d4	*823*	0	0	*1000*	0	*82.3*	*75-120*	810.5	*1.53*	*30*	
Surr: 4-Bromofluorobenzene	*1016*	0	0	*1000*	0	*102*	*80-110*	981	*3.51*	*30*	
Surr: Dibromofluoromethane	*951*	0	0	*1000*	0	*95.1*	*85-115*	933	*1.91*	*30*	
Surr: Toluene-d8	*929*	0	0	*1000*	0	*92.9*	*85-110*	910.5	*2.01*	*30*	

The following samples were analyzed in this batch: 1611473-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Cincinnati, OH +1 513 733 5336
Everett, WA +1 425 356 2600
Fort Collins, CO +1 970 490 1511
Holland, MI +1 616 399 6070
Houston, TX +1 281 530 5656
Middletown, PA +1 717 944 5541
Spring City, PA +1 610 948 4903
Salt Lake City, UT +1 801 266 7700
South Charleston, WV +1 304 356 3168
York, PA +1 717 505 5280

ALS Environmental

Chain of Custody Form

COC ID: 17714

ALS Project Manager: [illegible] ALS Work Order #: 16 [illegible]

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Old Dutch Mill	A	PVOC + Naphthalene
Work Order		Project Number	P101393.40	B	
Company Name	Endeavor Environmental Services	Bill To Company	Same as Customer Information	C	
Send Report To	Joseph Ramcheck	Invoice Attn		D	
Address	2280-B Salscheider Court	Address		E	
				F	
City/State/Zip	Green Bay, WI 54313	City/State/Zip		G	
Phone	(920) 437-2997	Phone		H	
Fax	(920) 437-3066	Fax		I	
e-Mail Address	jramcheck@endeavorenv.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-1	11/3/16	1315	GW	1	3	X	✓									
2	MW-2		1335														
3	MW-3		1400														
4	MW-4		1430														
5	GP-13		1435														
6	MW-5	✓	~~1500~~ 1515 0940	✓	✓	✓	✓										
7	Trip Blank	X	1500	X	X	1	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Casey Weber

Shipment Method: FedEx

Required Turnaround Time: (Check Box) ☐ 10 Work Days ☐ 5 Work Days ☐ 2 Work Days ☐ 1 Work Day ☐ Other ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 11/3/16	Time: 1823	Received by:	11/3/16 1823	Notes:
Relinquished by:	Date: 11/4/16	Time: 1100	Received by (Laboratory):	11/5/16 0930	
Logged by (Laboratory): DCS	Date: 11/7/16	Time: 1700	Checked by (Laboratory):		

Cooler ID: [illegible] Cooler Temp: 4.0°C

QC Packages: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Data ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Group, USA

Sample Receipt Checklist

Client Name: **ENDEAVORENV** Date/Time Received: **05-Nov-16 09:30**

Work Order: **1611473** Received by: **DS**

Checklist completed by Diane Shaw (eSignature) 07-Nov-16 (Date) Reviewed by: Alex Casazar (eSignature) 07-Nov-16 (Date)

Matrices: Groundwater
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	4.0/4.0 c	SR2	
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	11/7/2016 1:45:47 PM		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

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

October 06, 2017

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

RE: Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Dear Joe Ramcheck:
Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Christopher Hyska

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

Enclosures

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

CERTIFICATIONS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Minnesota Certification IDs
1700 Elm Street SE, Suite 200, Minneapolis, MN 55414-2485
A2LA Certification #: 2926.01
Alabama Certification #: 40770
Alaska Contaminated Sites Certification #: UST-078
Alaska DW Certification #: MN00064
Arizona Certification #: AZ0014
Arkansas Certification #: 88-0680
California Certification #: MN00064
CNMI Saipan Certification #:MP0003
Colorado Certification #: MN00064
Connecticut Certification #: PH-0256
EPA Region 8+Wyoming 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
Oklahoma Certification #: 9507
Oregon NwTPH Certification #: MN300001
Oregon Secondary Certification #: MN200001
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
Wyoming via EPA Region 8 Certification #: 8TMS-L

Green Bay Certification IDs
1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

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SAMPLE SUMMARY

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40157495001	SUMP	Water	09/27/17 09:50	09/27/17 15:00
40157495002	POTABLE	Water	09/27/17 10:00	09/27/17 15:00
40157495003	MW-4	Water	09/27/17 11:15	09/27/17 15:00
40157495004	MW-5	Water	09/27/17 11:20	09/27/17 15:00
40157495005	TRIP BLANK	Water	09/27/17 00:00	09/27/17 15:00

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SAMPLE ANALYTE COUNT

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40157495001	SUMP	WI MOD GRO	ALD	9	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
40157495002	POTABLE	EPA 8270 by HVI	TPO	20	PASI-G
		EPA 524.2	DJB	34	PASI-M
40157495003	MW-4	WI MOD GRO	ALD	9	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
40157495004	MW-5	WI MOD GRO	ALD	9	PASI-G
		EPA 8270 by HVI	TPO	20	PASI-G
40157495005	TRIP BLANK	EPA 524.2	DJB	34	PASI-M

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SUMMARY OF DETECTION

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40157495001	**SUMP**					
EPA 8270 by HVI	Acenaphthylene	0.0070J	ug/L	0.025	09/29/17 16:37	B
EPA 8270 by HVI	1-Methylnaphthalene	0.013J	ug/L	0.030	09/29/17 16:37	B
EPA 8270 by HVI	2-Methylnaphthalene	0.0064J	ug/L	0.024	09/29/17 16:37	B
EPA 8270 by HVI	Naphthalene	0.036J	ug/L	0.092	09/29/17 16:37	
40157495002	**POTABLE**					
EPA 524.2	Chloroform	1.6	ug/L	1.5	10/03/17 14:28	
EPA 524.2	Toluene	0.67	ug/L	0.57	10/03/17 14:28	
40157495004	**MW-5**					
WI MOD GRO	Ethylbenzene	79.1	ug/L	5.0	09/28/17 12:12	
WI MOD GRO	Toluene	30.3	ug/L	5.0	09/28/17 12:12	
WI MOD GRO	1,2,4-Trimethylbenzene	138	ug/L	5.0	09/28/17 12:12	
WI MOD GRO	1,3,5-Trimethylbenzene	51.3	ug/L	5.0	09/28/17 12:12	
WI MOD GRO	m&p-Xylene	94.8	ug/L	10.0	09/28/17 12:12	
WI MOD GRO	o-Xylene	40.8	ug/L	5.0	09/28/17 12:12	
EPA 8270 by HVI	1-Methylnaphthalene	9.9	ug/L	0.088	09/29/17 13:52	
EPA 8270 by HVI	2-Methylnaphthalene	15.3	ug/L	0.074	09/29/17 13:52	
EPA 8270 by HVI	Naphthalene	37.3	ug/L	0.27	09/29/17 13:52	

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PROJECT NARRATIVE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Endeavor Environmental Services, Inc.
Date: October 06, 2017

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.

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:

Analyte Comments:

QC Batch: 268854

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- MW-5 (Lab ID: 40157495004)
  - a,a,a-Trifluorotoluene (S)

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PROJECT NARRATIVE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Method: EPA 8270 by HVI
Description: 8270 MSSV PAH by HVI
Client: Endeavor Environmental Services, Inc.
Date: October 06, 2017

General Information:
4 samples were analyzed for EPA 8270 by HVI. 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.

Sample Preparation:
The samples were prepared in accordance with EPA 3510 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.

Internal Standards:
All internal standards were within QC limits 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.

QC Batch: 268875

B: Analyte was detected in the associated method blank.
- BLANK for HBN 268875 [OEXT/363 (Lab ID: 1579606)
  - 1-Methylnaphthalene
  - 2-Methylnaphthalene
  - Acenaphthylene

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:

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PROJECT NARRATIVE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Method: EPA 524.2
Description: 524.2 MSV
Client: Endeavor Environmental Services, Inc.
Date: October 06, 2017

General Information:
2 samples were analyzed for EPA 524.2. 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.

Internal Standards:
All internal standards were within QC limits 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.

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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Sample: SUMP **Lab ID: 40157495001** Collected: 09/27/17 09:50 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		09/28/17 10:55	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		09/28/17 10:55	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		09/28/17 10:55	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		09/28/17 10:55	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		09/28/17 10:55	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		09/28/17 10:55	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		09/28/17 10:55	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		09/28/17 10:55	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		09/28/17 10:55	98-08-8	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0061**	ug/L	0.030	0.0061	1	09/28/17 08:53	09/29/17 16:37	83-32-9	
Acenaphthylene	**0.0070J**	ug/L	0.025	0.0050	1	09/28/17 08:53	09/29/17 16:37	208-96-8	B
Anthracene	**<0.010**	ug/L	0.052	0.010	1	09/28/17 08:53	09/29/17 16:37	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 16:37	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	09/28/17 08:53	09/29/17 16:37	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	09/28/17 08:53	09/29/17 16:37	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	09/28/17 08:53	09/29/17 16:37	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 16:37	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	09/28/17 08:53	09/29/17 16:37	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	09/28/17 08:53	09/29/17 16:37	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.053	0.011	1	09/28/17 08:53	09/29/17 16:37	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	09/28/17 08:53	09/29/17 16:37	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	09/28/17 08:53	09/29/17 16:37	193-39-5	
1-Methylnaphthalene	**0.013J**	ug/L	0.030	0.0059	1	09/28/17 08:53	09/29/17 16:37	90-12-0	B
2-Methylnaphthalene	**0.0064J**	ug/L	0.024	0.0049	1	09/28/17 08:53	09/29/17 16:37	91-57-6	B
Naphthalene	**0.036J**	ug/L	0.092	0.018	1	09/28/17 08:53	09/29/17 16:37	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.069	0.014	1	09/28/17 08:53	09/29/17 16:37	85-01-8	
Pyrene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 16:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	35-84		1	09/28/17 08:53	09/29/17 16:37	321-60-8	
Terphenyl-d14 (S)	69	%	10-129		1	09/28/17 08:53	09/29/17 16:37	1718-51-0	

Sample: POTABLE **Lab ID: 40157495002** Collected: 09/27/17 10:00 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0061**	ug/L	0.030	0.0061	1	09/28/17 08:53	09/29/17 16:56	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	09/28/17 08:53	09/29/17 16:56	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	09/28/17 08:53	09/29/17 16:56	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 16:56	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	09/28/17 08:53	09/29/17 16:56	50-32-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Sample: POTABLE **Lab ID: 40157495002** Collected: 09/27/17 10:00 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	09/28/17 08:53	09/29/17 16:56	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	09/28/17 08:53	09/29/17 16:56	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 16:56	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	09/28/17 08:53	09/29/17 16:56	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	09/28/17 08:53	09/29/17 16:56	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.053	0.011	1	09/28/17 08:53	09/29/17 16:56	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	09/28/17 08:53	09/29/17 16:56	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	09/28/17 08:53	09/29/17 16:56	193-39-5	
1-Methylnaphthalene	**<0.0059**	ug/L	0.030	0.0059	1	09/28/17 08:53	09/29/17 16:56	90-12-0	
2-Methylnaphthalene	**<0.0049**	ug/L	0.024	0.0049	1	09/28/17 08:53	09/29/17 16:56	91-57-6	
Naphthalene	**<0.018**	ug/L	0.092	0.018	1	09/28/17 08:53	09/29/17 16:56	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.069	0.014	1	09/28/17 08:53	09/29/17 16:56	85-01-8	
Pyrene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 16:56	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	56	%	35-84		1	09/28/17 08:53	09/29/17 16:56	321-60-8	
Terphenyl-d14 (S)	72	%	10-129		1	09/28/17 08:53	09/29/17 16:56	1718-51-0	
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.11**	ug/L	0.37	0.11	1		10/03/17 14:28	71-43-2	
Bromodichloromethane	**<0.14**	ug/L	0.48	0.14	1		10/03/17 14:28	75-27-4	
Bromoform	**<1.0**	ug/L	3.5	1.0	1		10/03/17 14:28	75-25-2	
Carbon tetrachloride	**<0.17**	ug/L	0.57	0.17	1		10/03/17 14:28	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.38	0.11	1		10/03/17 14:28	108-90-7	
Chloroform	**1.6**	ug/L	1.5	0.46	1		10/03/17 14:28	67-66-3	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	3.4	1.0	1		10/03/17 14:28	96-12-8	
Dibromochloromethane	**<0.13**	ug/L	0.45	0.13	1		10/03/17 14:28	124-48-1	
1,2-Dibromoethane (EDB)	**<0.14**	ug/L	0.46	0.14	1		10/03/17 14:28	106-93-4	
1,2-Dichlorobenzene	**<0.077**	ug/L	0.26	0.077	1		10/03/17 14:28	95-50-1	
1,4-Dichlorobenzene	**<0.073**	ug/L	0.24	0.073	1		10/03/17 14:28	106-46-7	
1,2-Dichloroethane	**<0.11**	ug/L	0.37	0.11	1		10/03/17 14:28	107-06-2	
1,1-Dichloroethene	**<0.18**	ug/L	0.60	0.18	1		10/03/17 14:28	75-35-4	
cis-1,2-Dichloroethene	**<0.073**	ug/L	0.24	0.073	1		10/03/17 14:28	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/L	0.70	0.21	1		10/03/17 14:28	156-60-5	
1,2-Dichloropropane	**<0.20**	ug/L	0.68	0.20	1		10/03/17 14:28	78-87-5	
Ethylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/03/17 14:28	100-41-4	
p-Isopropyltoluene	**<0.088**	ug/L	0.29	0.088	1		10/03/17 14:28	99-87-6	
Methylene Chloride	**<1.2**	ug/L	3.9	1.2	1		10/03/17 14:28	75-09-2	
Styrene	**<0.10**	ug/L	0.35	0.10	1		10/03/17 14:28	100-42-5	
Tetrachloroethene	**<0.12**	ug/L	0.38	0.12	1		10/03/17 14:28	127-18-4	
Toluene	**0.67**	ug/L	0.57	0.17	1		10/03/17 14:28	108-88-3	
1,2,4-Trichlorobenzene	**<0.11**	ug/L	0.38	0.11	1		10/03/17 14:28	120-82-1	
1,1,1-Trichloroethane	**<0.13**	ug/L	0.44	0.13	1		10/03/17 14:28	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/L	0.41	0.12	1		10/03/17 14:28	79-00-5	
Trichloroethene	**<0.11**	ug/L	0.36	0.11	1		10/03/17 14:28	79-01-6	
Trichlorofluoromethane	**<0.080**	ug/L	0.27	0.080	1		10/03/17 14:28	75-69-4	
Vinyl chloride	**<0.074**	ug/L	0.25	0.074	1		10/03/17 14:28	75-01-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Sample: POTABLE **Lab ID: 40157495002** Collected: 09/27/17 10:00 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Xylene (Total)	**<0.24**	ug/L	0.81	0.24	1		10/03/17 14:28	1330-20-7	
m&p-Xylene	**<0.24**	ug/L	0.81	0.24	1		10/03/17 14:28	179601-23-1	
o-Xylene	**<0.073**	ug/L	0.24	0.073	1		10/03/17 14:28	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%.	75-125		1		10/03/17 14:28	460-00-4	
Toluene-d8 (S)	101	%.	75-125		1		10/03/17 14:28	2037-26-5	
1,2-Dichloroethane-d4 (S)	100	%.	75-125		1		10/03/17 14:28	17060-07-0	

Sample: MW-4 **Lab ID: 40157495003** Collected: 09/27/17 11:15 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<0.40**	ug/L	1.0	0.40	1		09/28/17 11:21	71-43-2	
Ethylbenzene	**<0.39**	ug/L	1.0	0.39	1		09/28/17 11:21	100-41-4	
Methyl-tert-butyl ether	**<0.48**	ug/L	1.0	0.48	1		09/28/17 11:21	1634-04-4	
Toluene	**<0.39**	ug/L	1.0	0.39	1		09/28/17 11:21	108-88-3	
1,2,4-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		09/28/17 11:21	95-63-6	
1,3,5-Trimethylbenzene	**<0.42**	ug/L	1.0	0.42	1		09/28/17 11:21	108-67-8	
m&p-Xylene	**<0.80**	ug/L	2.0	0.80	1		09/28/17 11:21	179601-23-1	
o-Xylene	**<0.45**	ug/L	1.0	0.45	1		09/28/17 11:21	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	99	%	80-120		1		09/28/17 11:21	98-08-8	
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.0061**	ug/L	0.030	0.0061	1	09/28/17 08:53	09/29/17 17:14	83-32-9	
Acenaphthylene	**<0.0050**	ug/L	0.025	0.0050	1	09/28/17 08:53	09/29/17 17:14	208-96-8	
Anthracene	**<0.010**	ug/L	0.052	0.010	1	09/28/17 08:53	09/29/17 17:14	120-12-7	
Benzo(a)anthracene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 17:14	56-55-3	
Benzo(a)pyrene	**<0.011**	ug/L	0.053	0.011	1	09/28/17 08:53	09/29/17 17:14	50-32-8	
Benzo(b)fluoranthene	**<0.0057**	ug/L	0.029	0.0057	1	09/28/17 08:53	09/29/17 17:14	205-99-2	
Benzo(g,h,i)perylene	**<0.0068**	ug/L	0.034	0.0068	1	09/28/17 08:53	09/29/17 17:14	191-24-2	
Benzo(k)fluoranthene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 17:14	207-08-9	
Chrysene	**<0.013**	ug/L	0.065	0.013	1	09/28/17 08:53	09/29/17 17:14	218-01-9	
Dibenz(a,h)anthracene	**<0.010**	ug/L	0.050	0.010	1	09/28/17 08:53	09/29/17 17:14	53-70-3	
Fluoranthene	**<0.011**	ug/L	0.053	0.011	1	09/28/17 08:53	09/29/17 17:14	206-44-0	
Fluorene	**<0.0080**	ug/L	0.040	0.0080	1	09/28/17 08:53	09/29/17 17:14	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.018**	ug/L	0.088	0.018	1	09/28/17 08:53	09/29/17 17:14	193-39-5	
1-Methylnaphthalene	**<0.0059**	ug/L	0.030	0.0059	1	09/28/17 08:53	09/29/17 17:14	90-12-0	
2-Methylnaphthalene	**<0.0049**	ug/L	0.024	0.0049	1	09/28/17 08:53	09/29/17 17:14	91-57-6	
Naphthalene	**<0.018**	ug/L	0.092	0.018	1	09/28/17 08:53	09/29/17 17:14	91-20-3	
Phenanthrene	**<0.014**	ug/L	0.069	0.014	1	09/28/17 08:53	09/29/17 17:14	85-01-8	
Pyrene	**<0.0076**	ug/L	0.038	0.0076	1	09/28/17 08:53	09/29/17 17:14	129-00-0	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Sample: MW-4 **Lab ID: 40157495003** Collected: 09/27/17 11:15 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Surrogates									
2-Fluorobiphenyl (S)	53	%	35-84		1	09/28/17 08:53	09/29/17 17:14	321-60-8	
Terphenyl-d14 (S)	61	%	10-129		1	09/28/17 08:53	09/29/17 17:14	1718-51-0	

Sample: MW-5 **Lab ID: 40157495004** Collected: 09/27/17 11:20 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO								
Benzene	**<2.0**	ug/L	5.0	2.0	5		09/28/17 12:12	71-43-2	
Ethylbenzene	**79.1**	ug/L	5.0	2.0	5		09/28/17 12:12	100-41-4	
Methyl-tert-butyl ether	**<2.4**	ug/L	5.0	2.4	5		09/28/17 12:12	1634-04-4	
Toluene	**30.3**	ug/L	5.0	1.9	5		09/28/17 12:12	108-88-3	
1,2,4-Trimethylbenzene	**138**	ug/L	5.0	2.1	5		09/28/17 12:12	95-63-6	
1,3,5-Trimethylbenzene	**51.3**	ug/L	5.0	2.1	5		09/28/17 12:12	108-67-8	
m&p-Xylene	**94.8**	ug/L	10.0	4.0	5		09/28/17 12:12	179601-23-1	
o-Xylene	**40.8**	ug/L	5.0	2.2	5		09/28/17 12:12	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	104	%	80-120		5		09/28/17 12:12	98-08-8	D3
8270 MSSV PAH by HVI	Analytical Method: EPA 8270 by HVI Preparation Method: EPA 3510								
Acenaphthene	**<0.018**	ug/L	0.091	0.018	3	09/28/17 08:53	09/29/17 13:52	83-32-9	
Acenaphthylene	**<0.015**	ug/L	0.075	0.015	3	09/28/17 08:53	09/29/17 13:52	208-96-8	
Anthracene	**<0.031**	ug/L	0.16	0.031	3	09/28/17 08:53	09/29/17 13:52	120-12-7	
Benzo(a)anthracene	**<0.023**	ug/L	0.11	0.023	3	09/28/17 08:53	09/29/17 13:52	56-55-3	
Benzo(a)pyrene	**<0.032**	ug/L	0.16	0.032	3	09/28/17 08:53	09/29/17 13:52	50-32-8	
Benzo(b)fluoranthene	**<0.017**	ug/L	0.086	0.017	3	09/28/17 08:53	09/29/17 13:52	205-99-2	
Benzo(g,h,i)perylene	**<0.020**	ug/L	0.10	0.020	3	09/28/17 08:53	09/29/17 13:52	191-24-2	
Benzo(k)fluoranthene	**<0.023**	ug/L	0.11	0.023	3	09/28/17 08:53	09/29/17 13:52	207-08-9	
Chrysene	**<0.039**	ug/L	0.20	0.039	3	09/28/17 08:53	09/29/17 13:52	218-01-9	
Dibenz(a,h)anthracene	**<0.030**	ug/L	0.15	0.030	3	09/28/17 08:53	09/29/17 13:52	53-70-3	
Fluoranthene	**<0.032**	ug/L	0.16	0.032	3	09/28/17 08:53	09/29/17 13:52	206-44-0	
Fluorene	**<0.024**	ug/L	0.12	0.024	3	09/28/17 08:53	09/29/17 13:52	86-73-7	
Indeno(1,2,3-cd)pyrene	**<0.053**	ug/L	0.26	0.053	3	09/28/17 08:53	09/29/17 13:52	193-39-5	
1-Methylnaphthalene	**9.9**	ug/L	0.088	0.018	3	09/28/17 08:53	09/29/17 13:52	90-12-0	
2-Methylnaphthalene	**15.3**	ug/L	0.074	0.015	3	09/28/17 08:53	09/29/17 13:52	91-57-6	
Naphthalene	**37.3**	ug/L	0.27	0.055	3	09/28/17 08:53	09/29/17 13:52	91-20-3	
Phenanthrene	**<0.041**	ug/L	0.21	0.041	3	09/28/17 08:53	09/29/17 13:52	85-01-8	
Pyrene	**<0.023**	ug/L	0.11	0.023	3	09/28/17 08:53	09/29/17 13:52	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	54	%	35-84		3	09/28/17 08:53	09/29/17 13:52	321-60-8	
Terphenyl-d14 (S)	45	%	10-129		3	09/28/17 08:53	09/29/17 13:52	1718-51-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Sample: TRIP BLANK **Lab ID: 40157495005** Collected: 09/27/17 00:00 Received: 09/27/17 15:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
524.2 MSV	Analytical Method: EPA 524.2								
Benzene	**<0.11**	ug/L	0.37	0.11	1		10/03/17 13:41	71-43-2	
Bromodichloromethane	**<0.14**	ug/L	0.48	0.14	1		10/03/17 13:41	75-27-4	
Bromoform	**<1.0**	ug/L	3.5	1.0	1		10/03/17 13:41	75-25-2	
Carbon tetrachloride	**<0.17**	ug/L	0.57	0.17	1		10/03/17 13:41	56-23-5	
Chlorobenzene	**<0.11**	ug/L	0.38	0.11	1		10/03/17 13:41	108-90-7	
Chloroform	**<0.46**	ug/L	1.5	0.46	1		10/03/17 13:41	67-66-3	
1,2-Dibromo-3-chloropropane	**<1.0**	ug/L	3.4	1.0	1		10/03/17 13:41	96-12-8	
Dibromochloromethane	**<0.13**	ug/L	0.45	0.13	1		10/03/17 13:41	124-48-1	
1,2-Dibromoethane (EDB)	**<0.14**	ug/L	0.46	0.14	1		10/03/17 13:41	106-93-4	
1,2-Dichlorobenzene	**<0.077**	ug/L	0.26	0.077	1		10/03/17 13:41	95-50-1	
1,4-Dichlorobenzene	**<0.073**	ug/L	0.24	0.073	1		10/03/17 13:41	106-46-7	
1,2-Dichloroethane	**<0.11**	ug/L	0.37	0.11	1		10/03/17 13:41	107-06-2	
1,1-Dichloroethene	**<0.18**	ug/L	0.60	0.18	1		10/03/17 13:41	75-35-4	
cis-1,2-Dichloroethene	**<0.073**	ug/L	0.24	0.073	1		10/03/17 13:41	156-59-2	
trans-1,2-Dichloroethene	**<0.21**	ug/L	0.70	0.21	1		10/03/17 13:41	156-60-5	
1,2-Dichloropropane	**<0.20**	ug/L	0.68	0.20	1		10/03/17 13:41	78-87-5	
Ethylbenzene	**<0.14**	ug/L	0.45	0.14	1		10/03/17 13:41	100-41-4	
p-Isopropyltoluene	**<0.088**	ug/L	0.29	0.088	1		10/03/17 13:41	99-87-6	
Methylene Chloride	**<1.2**	ug/L	3.9	1.2	1		10/03/17 13:41	75-09-2	
Styrene	**<0.10**	ug/L	0.35	0.10	1		10/03/17 13:41	100-42-5	
Tetrachloroethene	**<0.12**	ug/L	0.38	0.12	1		10/03/17 13:41	127-18-4	
Toluene	**<0.17**	ug/L	0.57	0.17	1		10/03/17 13:41	108-88-3	
1,2,4-Trichlorobenzene	**<0.11**	ug/L	0.38	0.11	1		10/03/17 13:41	120-82-1	
1,1,1-Trichloroethane	**<0.13**	ug/L	0.44	0.13	1		10/03/17 13:41	71-55-6	
1,1,2-Trichloroethane	**<0.12**	ug/L	0.41	0.12	1		10/03/17 13:41	79-00-5	
Trichloroethene	**<0.11**	ug/L	0.36	0.11	1		10/03/17 13:41	79-01-6	
Trichlorofluoromethane	**<0.080**	ug/L	0.27	0.080	1		10/03/17 13:41	75-69-4	
Vinyl chloride	**<0.074**	ug/L	0.25	0.074	1		10/03/17 13:41	75-01-4	
Xylene (Total)	**<0.24**	ug/L	0.81	0.24	1		10/03/17 13:41	1330-20-7	
m&p-Xylene	**<0.24**	ug/L	0.81	0.24	1		10/03/17 13:41	179601-23-1	
o-Xylene	**<0.073**	ug/L	0.24	0.073	1		10/03/17 13:41	95-47-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%.	75-125		1		10/03/17 13:41	460-00-4	
Toluene-d8 (S)	99	%.	75-125		1		10/03/17 13:41	2037-26-5	
1,2-Dichloroethane-d4 (S)	98	%.	75-125		1		10/03/17 13:41	17060-07-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

QC Batch: 268854 Analysis Method: WI MOD GRO
QC Batch Method: WI MOD GRO Analysis Description: WIGRO GCV Water
Associated Lab Samples: 40157495001, 40157495003, 40157495004

METHOD BLANK: 1579556 Matrix: Water
Associated Lab Samples: 40157495001, 40157495003, 40157495004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/L	<0.42	1.0	09/28/17 08:48	
1,3,5-Trimethylbenzene	ug/L	<0.42	1.0	09/28/17 08:48	
Benzene	ug/L	<0.40	1.0	09/28/17 08:48	
Ethylbenzene	ug/L	<0.39	1.0	09/28/17 08:48	
m&p-Xylene	ug/L	<0.80	2.0	09/28/17 08:48	
Methyl-tert-butyl ether	ug/L	<0.48	1.0	09/28/17 08:48	
o-Xylene	ug/L	<0.45	1.0	09/28/17 08:48	
Toluene	ug/L	<0.39	1.0	09/28/17 08:48	
a,a,a-Trifluorotoluene (S)	%	98	80-120	09/28/17 08:48	

LABORATORY CONTROL SAMPLE & LCSD: 1579557 1579558

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	19.7	19.7	99	98	80-120	0	20	
1,3,5-Trimethylbenzene	ug/L	20	19.3	19.2	96	96	80-120	0	20	
Benzene	ug/L	20	19.6	19.5	98	98	80-120	0	20	
Ethylbenzene	ug/L	20	19.5	19.4	97	97	80-120	0	20	
m&p-Xylene	ug/L	40	38.7	38.7	97	97	80-120	0	20	
Methyl-tert-butyl ether	ug/L	20	19.4	19.5	97	97	80-120	0	20	
o-Xylene	ug/L	20	19.6	19.6	98	98	80-120	0	20	
Toluene	ug/L	20	19.4	19.4	97	97	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				98	99	80-120			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1579604 1579605

Parameter	Units	40157437006 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	59.8	100	100	178	178	118	118	11-200	0	20	
1,3,5-Trimethylbenzene	ug/L	14.5	100	100	121	121	106	107	54-142	1	20	
Benzene	ug/L	517	100	100	594	598	76	81	66-140	1	20	
Ethylbenzene	ug/L	58.6	100	100	159	160	100	102	66-143	1	20	
m&p-Xylene	ug/L	34.3	200	200	234	236	100	101	60-141	1	20	
Methyl-tert-butyl ether	ug/L	<2.4	100	100	96.4	96.6	96	97	70-129	0	20	
o-Xylene	ug/L	11.3	100	100	112	113	100	102	68-132	1	20	
Toluene	ug/L	3.9J	100	100	103	105	99	101	76-130	2	20	
a,a,a-Trifluorotoluene (S)	%						100	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

QC Batch: 500195 Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2 Analysis Description: 524.2 MSV
Associated Lab Samples: 40157495002, 40157495005

METHOD BLANK: 2719398 Matrix: Water
Associated Lab Samples: 40157495002, 40157495005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	<0.13	0.44	10/03/17 12:31	
1,1,2-Trichloroethane	ug/L	<0.12	0.41	10/03/17 12:31	
1,1-Dichloroethene	ug/L	<0.18	0.60	10/03/17 12:31	
1,2,4-Trichlorobenzene	ug/L	<0.11	0.38	10/03/17 12:31	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	3.4	10/03/17 12:31	
1,2-Dibromoethane (EDB)	ug/L	<0.14	0.46	10/03/17 12:31	
1,2-Dichlorobenzene	ug/L	<0.077	0.26	10/03/17 12:31	
1,2-Dichloroethane	ug/L	<0.11	0.37	10/03/17 12:31	
1,2-Dichloropropane	ug/L	<0.20	0.68	10/03/17 12:31	
1,4-Dichlorobenzene	ug/L	<0.073	0.24	10/03/17 12:31	
Benzene	ug/L	<0.11	0.37	10/03/17 12:31	
Bromodichloromethane	ug/L	<0.14	0.48	10/03/17 12:31	
Bromoform	ug/L	<1.0	3.5	10/03/17 12:31	
Carbon tetrachloride	ug/L	<0.17	0.57	10/03/17 12:31	
Chlorobenzene	ug/L	<0.11	0.38	10/03/17 12:31	
Chloroform	ug/L	<0.46	1.5	10/03/17 12:31	
cis-1,2-Dichloroethene	ug/L	<0.073	0.24	10/03/17 12:31	
Dibromochloromethane	ug/L	<0.13	0.45	10/03/17 12:31	
Ethylbenzene	ug/L	<0.14	0.45	10/03/17 12:31	
m&p-Xylene	ug/L	<0.24	0.81	10/03/17 12:31	
Methylene Chloride	ug/L	<1.2	3.9	10/03/17 12:31	
o-Xylene	ug/L	<0.073	0.24	10/03/17 12:31	
p-Isopropyltoluene	ug/L	<0.088	0.29	10/03/17 12:31	
Styrene	ug/L	<0.10	0.35	10/03/17 12:31	
Tetrachloroethene	ug/L	<0.12	0.38	10/03/17 12:31	
Toluene	ug/L	<0.17	0.57	10/03/17 12:31	
trans-1,2-Dichloroethene	ug/L	<0.21	0.70	10/03/17 12:31	
Trichloroethene	ug/L	<0.11	0.36	10/03/17 12:31	
Trichlorofluoromethane	ug/L	<0.080	0.27	10/03/17 12:31	
Vinyl chloride	ug/L	<0.074	0.25	10/03/17 12:31	
Xylene (Total)	ug/L	<0.24	0.81	10/03/17 12:31	
1,2-Dichloroethane-d4 (S)	%.	100	75-125	10/03/17 12:31	
4-Bromofluorobenzene (S)	%.	99	75-125	10/03/17 12:31	
Toluene-d8 (S)	%.	100	75-125	10/03/17 12:31	

LABORATORY CONTROL SAMPLE & LCSD: 2719399 2719400

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1-Trichloroethane	ug/L	20	19.3	18.6	96	93	70-130	3	20	
1,1,2-Trichloroethane	ug/L	20	20.8	20.7	104	103	70-130	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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

LABORATORY CONTROL SAMPLE & LCSD: 2719399 2719400

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1-Dichloroethene	ug/L	20	19.6	18.2	98	91	70-130	7	20	
1,2,4-Trichlorobenzene	ug/L	20	19.2	19.0	96	95	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	50	53.0	52.9	106	106	70-130	0	20	
1,2-Dibromoethane (EDB)	ug/L	20	20.7	21.2	104	106	70-130	2	20	
1,2-Dichlorobenzene	ug/L	20	20.6	20.4	103	102	70-130	1	20	
1,2-Dichloroethane	ug/L	20	18.1	17.8	90	89	70-130	2	20	
1,2-Dichloropropane	ug/L	20	18.7	18.5	93	92	70-130	1	20	
1,4-Dichlorobenzene	ug/L	20	20.6	20.4	103	102	70-130	1	20	
Benzene	ug/L	20	19.0	18.5	95	93	70-130	2	20	
Bromodichloromethane	ug/L	20	19.4	19.5	97	98	70-130	1	20	
Bromoform	ug/L	20	18.4	18.4	92	92	70-130	0	20	
Carbon tetrachloride	ug/L	20	19.5	18.9	98	95	70-130	3	20	
Chlorobenzene	ug/L	20	19.9	19.8	99	99	70-130	0	20	
Chloroform	ug/L	20	18.5	18.3	93	92	70-130	1	20	
cis-1,2-Dichloroethene	ug/L	20	19.5	19.1	98	95	70-130	2	20	
Dibromochloromethane	ug/L	20	20.7	20.0	104	100	70-130	4	20	
Ethylbenzene	ug/L	20	19.8	19.8	99	99	70-130	0	20	
m&p-Xylene	ug/L	40	40.7	40.5	102	101	70-130	1	20	
Methylene Chloride	ug/L	20	18.5	18.0	92	90	70-130	2	20	
o-Xylene	ug/L	20	19.3	19.8	97	99	70-130	2	20	
p-Isopropyltoluene	ug/L	20	19.9	19.2	100	96	70-130	3	20	
Styrene	ug/L	20	18.2	18.0	91	90	70-130	1	20	
Tetrachloroethene	ug/L	20	20.7	19.7	103	98	70-130	5	20	
Toluene	ug/L	20	20.0	18.8	100	94	70-130	6	20	
trans-1,2-Dichloroethene	ug/L	20	18.8	17.9	94	89	70-130	5	20	
Trichloroethene	ug/L	20	20.0	19.7	100	98	70-130	1	20	
Trichlorofluoromethane	ug/L	20	20.5	19.8	103	99	70-130	3	20	
Vinyl chloride	ug/L	20	19.7	18.4	98	92	70-130	7	20	
Xylene (Total)	ug/L	60	60.0	60.2	100	100	70-130	0	20	
1,2-Dichloroethane-d4 (S)	%.				101	100	75-125			
4-Bromofluorobenzene (S)	%.				98	99	75-125			
Toluene-d8 (S)	%.				105	102	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2721755 2721756

Parameter	Units	10405898001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1-Trichloroethane	ug/L	ND	20	20	18.3	18.4	91	92	70-130	0	20	
1,1,2-Trichloroethane	ug/L	ND	20	20	18.7	19.0	93	95	70-130	2	20	
1,1-Dichloroethene	ug/L	ND	20	20	18.4	19.1	92	95	70-130	4	20	
1,2,4-Trichlorobenzene	ug/L	ND	20	20	18.1	17.6	90	88	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	49.9	52.0	100	104	70-130	4	20	
1,2-Dibromoethane (EDB)	ug/L	ND	20	20	19.1	18.8	95	94	70-130	1	20	
1,2-Dichlorobenzene	ug/L	ND	20	20	18.3	18.4	92	92	70-130	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2721755 2721756

Parameter	Units	10405898001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,2-Dichloroethane	ug/L	ND	20	20	16.3	16.4	81	82	70-130	1	20	
1,2-Dichloropropane	ug/L	ND	20	20	16.6	17.1	83	85	70-130	3	20	
1,4-Dichlorobenzene	ug/L	ND	20	20	18.2	18.6	91	93	70-130	2	20	
Benzene	ug/L	ND	20	20	17.5	18.1	88	90	70-130	3	20	
Bromodichloromethane	ug/L	ND	20	20	17.7	18.2	88	91	70-130	3	20	
Bromoform	ug/L	ND	20	20	17.0	17.2	85	86	70-130	1	20	
Carbon tetrachloride	ug/L	ND	20	20	19.0	19.1	95	95	70-130	0	20	
Chlorobenzene	ug/L	ND	20	20	18.5	18.6	92	93	70-130	1	20	
Chloroform	ug/L	ND	20	20	16.7	17.0	84	85	70-130	2	20	
cis-1,2-Dichloroethene	ug/L	ND	20	20	18.0	18.2	90	91	70-130	1	20	
Dibromochloromethane	ug/L	ND	20	20	18.8	18.5	94	92	70-130	2	20	
Ethylbenzene	ug/L	ND	20	20	18.1	18.5	91	93	70-130	2	20	
m&p-Xylene	ug/L	ND	40	40	36.8	37.5	92	94	70-130	2	20	
Methylene Chloride	ug/L	ND	20	20	16.8	17.3	84	87	70-130	3	20	
o-Xylene	ug/L	ND	20	20	18.3	18.6	92	93	70-130	1	20	
p-Isopropyltoluene	ug/L	ND	20	20	18.7	18.2	93	91	70-130	3	20	
Styrene	ug/L	ND	20	20	16.3	16.5	82	82	70-130	1	20	
Tetrachloroethene	ug/L	ND	20	20	18.7	19.1	94	95	70-130	2	20	
Toluene	ug/L	ND	20	20	17.5	18.0	88	90	70-130	3	20	
trans-1,2-Dichloroethene	ug/L	ND	20	20	17.8	18.3	89	92	70-130	3	20	
Trichloroethene	ug/L	ND	20	20	18.7	19.0	93	95	70-130	2	20	
Trichlorofluoromethane	ug/L	ND	20	20	20.6	21.2	103	106	70-130	3	20	
Vinyl chloride	ug/L	ND	20	20	18.3	18.9	91	95	70-130	3	20	
Xylene (Total)	ug/L	ND	60	60	55.2	56.1	92	93	70-130	2	20	
1,2-Dichloroethane-d4 (S)	%.						99	99	75-125			
4-Bromofluorobenzene (S)	%.						97	98	75-125			
Toluene-d8 (S)	%.						100	99	75-125			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

QC Batch: 268875 Analysis Method: EPA 8270 by HVI
QC Batch Method: EPA 3510 Analysis Description: 8270 Water PAH by HVI
Associated Lab Samples: 40157495001, 40157495002, 40157495003, 40157495004

METHOD BLANK: 1579606 Matrix: Water
Associated Lab Samples: 40157495001, 40157495002, 40157495003, 40157495004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/L	0.0077J	0.030	09/29/17 10:11	
2-Methylnaphthalene	ug/L	0.0069J	0.024	09/29/17 10:11	
Acenaphthene	ug/L	<0.0061	0.030	09/29/17 10:11	
Acenaphthylene	ug/L	0.0090J	0.025	09/29/17 10:11	
Anthracene	ug/L	<0.010	0.052	09/29/17 10:11	
Benzo(a)anthracene	ug/L	<0.0076	0.038	09/29/17 10:11	
Benzo(a)pyrene	ug/L	<0.011	0.053	09/29/17 10:11	
Benzo(b)fluoranthene	ug/L	<0.0057	0.029	09/29/17 10:11	
Benzo(g,h,i)perylene	ug/L	<0.0068	0.034	09/29/17 10:11	
Benzo(k)fluoranthene	ug/L	<0.0076	0.038	09/29/17 10:11	
Chrysene	ug/L	<0.013	0.065	09/29/17 10:11	
Dibenz(a,h)anthracene	ug/L	<0.010	0.050	09/29/17 10:11	
Fluoranthene	ug/L	<0.011	0.053	09/29/17 10:11	
Fluorene	ug/L	<0.0080	0.040	09/29/17 10:11	
Indeno(1,2,3-cd)pyrene	ug/L	<0.018	0.088	09/29/17 10:11	
Naphthalene	ug/L	<0.018	0.092	09/29/17 10:11	
Phenanthrene	ug/L	0.023J	0.069	09/29/17 10:11	
Pyrene	ug/L	<0.0076	0.038	09/29/17 10:11	
2-Fluorobiphenyl (S)	%	65	35-84	09/29/17 10:11	
Terphenyl-d14 (S)	%	93	10-129	09/29/17 10:11	

LABORATORY CONTROL SAMPLE: 1579607

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/L	2	1.6	79	39-83	
2-Methylnaphthalene	ug/L	2	1.6	79	38-86	
Acenaphthene	ug/L	2	1.4	70	35-85	
Acenaphthylene	ug/L	2	1.5	74	31-88	
Anthracene	ug/L	2	1.7	84	47-104	
Benzo(a)anthracene	ug/L	2	1.6	79	36-105	
Benzo(a)pyrene	ug/L	2	1.8	92	69-117	
Benzo(b)fluoranthene	ug/L	2	1.5	74	54-107	
Benzo(g,h,i)perylene	ug/L	2	0.83	41	13-86	
Benzo(k)fluoranthene	ug/L	2	1.9	97	63-128	
Chrysene	ug/L	2	2.2	111	69-150	
Dibenz(a,h)anthracene	ug/L	2	0.75	38	10-87	
Fluoranthene	ug/L	2	1.9	94	57-103	
Fluorene	ug/L	2	1.5	76	38-85	
Indeno(1,2,3-cd)pyrene	ug/L	2	1.5	77	40-111	
Naphthalene	ug/L	2	1.4	68	39-82	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-G	Pace Analytical Services - Green Bay
PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: P101393.40 OLD DUTCH MILL
Pace Project No.: 40157495

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40157495001	**SUMP**	WI MOD GRO	268854		
40157495003	**MW-4**	WI MOD GRO	268854		
40157495004	**MW-5**	WI MOD GRO	268854		
40157495001	**SUMP**	EPA 3510	268875	EPA 8270 by HVI	268945
40157495002	**POTABLE**	EPA 3510	268875	EPA 8270 by HVI	268945
40157495003	**MW-4**	EPA 3510	268875	EPA 8270 by HVI	268945
40157495004	**MW-5**	EPA 3510	268875	EPA 8270 by HVI	268945
40157495002	**POTABLE**	EPA 524.2	500195		
40157495005	**TRIP BLANK**	EPA 524.2	500195		

40157495

(Please Print Clearly)

Company Name:	Endeavor Env. Services Inc.
Branch/Location:	Green Bay
Project Contact:	Joseph Ramcheck
Phone:	920-437-2997
Project Number:	P101393.40
Project Name:	Old Dutch Mill
Project State:	WI
Sampled By (Print):	Joseph Ramcheck
Sampled By (Sign):	[signature]
PO #:	
Regulatory Program:	

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

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

*Preservation Codes
A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Quote #:	
Mail To Contact:	Joseph Ramcheck
Mail To Company:	Endeavor Env. Services Inc.
Mail To Address:	2280-B Salscheider Ct Green Bay WI 54313
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

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

Analyses Requested: PVOC, PAH, VOC (524.2)

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC	PAH	VOC (524.2)	CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	Sump	9/20/12	950	GW	X	X			1-1Lag A, 3-40mLv B	
002	Potable	↓	1000	DW		X	X		↓	
003	MW-4	↓	1115	GW	X	X			↓	
004	MW-5	↓	1120	GW	X	X			↓	
005	Trip Blank	↓	—	Trip			X		1-40mLv B	
	PECFA U+C									

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):
Email #1:
Email #2:
Telephone:
Fax:

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	9/20/12 1500	Kevin Kotylle - Pace	9/27/12 1500

PACE Project No. 40157495
Receipt Temp = R01 °C
Sample Receipt pH OK / Adjusted
Cooler Custody Seal Present / Not Present Intact / Not Intact

Version 6.0 06/14/06

C019a(27Jun2006)

ORIGINAL