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CIVIL & ENVIRONMENTAL ENGINEERING, SURVEYING

June 6, 2019

Wisconsin Department of Natural Resources
Attn: Ms. Carrie Stoltz
107 Sutliff Avenue
Rhinelander, WI 54501

Subject:

Update Report
Burnett Oil Company
26504 Minnow Avenue
Webster, WI
BRRTS #02-07-282564
PECFA #54893-8024-14

Dear Ms. Stoltz:

Enclosed is the Update Report for the above-mentioned site. REI has identified residual soil contamination beyond the subject property boundary. Groundwater analytical results document no petroleum related groundwater contamination above detection limits in any of the locations sampled in 2017.

REI is recommending the completion of a soil excavation to remove the documented soil contamination. REI is not recommending further groundwater sampling at this time.

Please call me with questions or comments toll free at 877-734-7745 or contact me electronically at dlarsen@reiengineering.com.

Sincerely,
REI Engineering, Inc.

David N. Larsen P.G.
Senior Hydrogeologist/Project Manager

Enclosure (A/S)

cc: Burnett County, Attn: Mr. Nathan Ehalt, 7410 County Road K, #116, Siren, WI 54872

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CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

Update Report

Burnett Oil Company
Webster, Wisconsin

WDNR BRRTS #02-07-282564
PECFA #54893-8024-14
REI Project #6962

COMPREHENSIVE SERVICES WITH PRACTICAL SOLUTIONS

UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

BRRTS #02-07-282564
PECFA #54893-8024-14
REI #6962

PREPARED FOR:

Burnett County
Attn: Mr. Nathan Ehalt
7410 Cty Road K, #116
Siren, WI 54872

JUNE 2019

UPDATE REPORT

BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

BRRTS #02-07-282564
PECFA #54893-8024-14
REI #6962

The recommendations contained in this report are based on the information obtained from our study of the site and were arrived at in accordance with accepted hydrogeologic and engineering practices at this time and location.

"I, David N. Larsen, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, am registered in accordance with the requirements of Ch. GHSS 2, Wis. Adm. Code, or licensed in accordance with the requirements of Ch. GHSS 3, Wis. Admn. Code, and that to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

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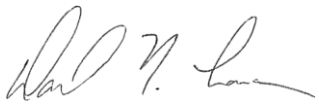

Hydrogeologist — June 5, 2019 Date

"I, Brian J. Bailey, hereby certify that I am a scientist as that term is defined in s. NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."

Environmental Scientist — June 5, 2019 Date

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BURNETT OIL COMPANY
26504 MINNOW AVENUE
WEBSTER, WI 54893

BRRTS #02-07-282564
PECFA #54893-8024-14
REI #6962

1.0 INTRODUCTION

The Burnett Oil Company site is located in the NE ¼ of the SE ¼ of Section 08, Township 39 North, Range 16 West, in the Village of Webster, Burnett County, Wisconsin (Figure l). The site address is 26504 Minnow Avenue, Webster, Wisconsin, 54893. Wisconsin Transverse Mercator (WTM) coordinates are 336177, 603362.

Following the completion of the Environmental Site Investigation Report, it was determined that additional soil sampling was required to adequately define the degree and extent of the historic petroleum release to the west into Minnow Road.

2.0 SUMMARY OF ACTIVITIES

2.1 Geoprobe Borings

REI was on-site to oversee the advancement of five (5) Geoprobe push borings (GP11-GP15) on May 2, 2018. Gestra Engineering, Inc., Milwaukee, WI was subcontracted to complete the Geoprobe advancement. Each of the borings were completed to a depth of twelve (12) feet below ground surface (bgs).

Figure 2 documents the locations of the soil borings advanced during the site investigation. Soil Boring Logs (WDNR Form 4400-122) and Borehole Abandonment Forms (WDNR Form 3300-5) are included in Appendix A.

A total of ten (10) soil samples were collected and submitted for laboratory analysis during this scope of services. Soil samples were obtained to define the lateral and vertical extent of the petroleum contamination in the subsurface immediately west of the subject property.

Borings were advanced in the west ditch of Minnow Avenue and also in Minnow Avenue. Minnow Avenue is a gravel covered road and is owned by Burnett County.

Analytical results from all soil sample events were directly compared against the State of Wisconsin's cleanup criteria listed in Chapter NR720. Numerous soil sample locations document the presence of petroleum compounds exceeding the NR720.09(04) Residual Contaminant Level (RCL). Additionally, direct contact exceedances were identified in many of the shallow soil samples collected at the site. Soil analytical results are summarized on Tables 1a-c. A copy of the laboratory analytical report for the May 2, 2018 sample event is included in Appendix B. Figure 3 presents the estimated extent of petroleum related soil contamination.

2.2 Soil Stockpile Sampling Results

The Village of Webster has a soil stockpile located on Village property one (1) block south of the former Burnett Oil site. The Village of Webster wants the stockpile removed from its current location and made it available to be used as backfill for the proposed soil excavation at the Burnett Oil investigation.

REI personnel collected two (2) composite soil samples and submitted them for analysis of PAH's, VOC's and RCRA metals. The analytical results are summarized in Table 1e and document a single NR720.09(04) Residual Contaminant Level (RCL) exceedance. The exceedance was for the Non-Industrial Not to Exceed Direct Contact RCL for benzo(a)pyrene.

The proposed soil excavation would extend to a depth of approximately twelve (12) feet bls. If the Village of Webster soil stockpile were to be placed in the bottom of the proposed excavation, the soil would be at a depth greater than four (4) feet and the direct contact RCL would not apply.

3.0 Conclusion

REI is recommending the completion of a soil excavation at the Burnett Oil site to remove the known contaminant mass and limit any potential contaminant loading to groundwater. Figure 4 presents the locations and depth of the proposed soil excavation scope of services.

Groundwater has not been impacted by the petroleum release and has been observed at a depth of approximately thirty (30) feet bls. Additional groundwater sampling is not recommended at this time.

Table 1a
Summary of Soil Analytical Results
Geoprobe Borings
Burnett Oil Company
Webster, Wisconsin

Sample Location-->			GP1		GP2			GP3		GP4		GP5			GP6	
Date-->			8/10/16		8/10/16			8/10/16		8/10/16		8/10/16			8/10/16	
Sample Depth--(Feet)>			2-4	6-7	2-3	8-9	14-15	2-4	14-15	2-4	14-15	2-4	9-10	19-20	2-4	14-15
Percent Moisture-->			17.70%	17.70%	24.20%	19.30%	20.40%	18.00%	12.30%	9.40%	7.00%	10.40%	8.70%	3.40%	30.60%	4.90%
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)														
Lead (mg/kg)	400	13.50	**40.3**	3.8	8.7	**20.3**	1.2[J]	4.0	1.2[J]	2.3	0.93[J]	11.1	4.2	0.95[J]	**34.3**	1.0[J]
Petroleum VOC's (µg/kg)																
Benzene	1,490	5.1	< 2,560	**1,410**	< 556	< 247	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	***4,670***	**13,300**	< 26.0	< 40.3	< 37.3
Ethylbenzene	7,470	1,570	***33,700***	**6,450**	1,530	993	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	***24,800***	**51,100**	< 26.0	< 40.3	< 37.3
Toluene	818,000	1,107	< 2,560	**1,240**	< 556	< 247	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	**2,140**	**68,100**	< 26.0	< 40.3	< 37.3
Xylenes (Total)	258,000	3,940	**210,900**	**35,200**	**6,150**	3,590	< 55.6	< 54.3	< 50.0	< 68.5	< 82.0	**192,500**	**308,400**	< 52.1	< 80.6	< 74.6
Methly tert Butyl Ether	59,400	27	< 2,560	< 200	< 556	< 247	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	< 906	< 1,710	< 26.0	< 40.3	< 37.3
1,2,4-Trimethylbenzene	89,800	NS	***250,000***	23,900	18,400	11,100	36.4[J]	< 27.2	< 25.0	< 34.2	< 41.0	***120,000***	179,000	< 26.0	< 40.3	< 37.3
1,3,5-Trimethylbenzene	182,000	NS	***118,000***	10,500	10,100	5,090	< 27.8	< 27.2	< 25.0	< 34.2	< 41.0	44,600	64,900	< 26.0	< 40.3	< 37.3
Trimethylbenzenes (Total)	NS	1,379	**368,000**	**34,400**	**28,500**	**16,190**	36.4[J]	< 27.2	< 25.0	< 34.2	< 41.0	**164,600**	**243,900**	< 26.0	< 40.3	< 37.3
Naphthalene	5,150	658.7	***110,000***	**9,150**	***26,300***	**14,100**	306	< 27.2	< 25.0	< 34.2	< 41.0	***37,600***	**66,800**	< 26.0	< 40.3	< 37.3
PAH Compounds (µg/kg)																
Acenaphthene	3,440,000	NS	1,890[J]	< 253	199[J]	240	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NS	NS	< 1,450	< 227	< 98.4	108[J]	< 9.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,200,000	197,744.2	< 1,680	< 262	< 114	< 107	< 10.9	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Anthracene	148	NS	< 1,120	< 175	< 72.6	< 71.6	< 7.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(a)Pyrene	15	470	< 1,160	< 181	< 78.6	< 73.9	< 7.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(b)Fluoranthene	148	480	< 1,620	< 253	< 110	< 103	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)Perylene	NS	NS	< 1,230	< 193	< 83.8	< 78.7	< 8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Benzo(k)Fluoranthene	1,480	NS	< 1,790	< 280	< 122	< 114	< 11.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chrysene	14,800	145.1	< 1,500	< 234	< 102	< 95.5	< 9.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Dibenzo(a,h)anthracene	15	NS	< 1,190	< 186	< 80.7	< 75.8	< 7.7	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,290,000	88,817.9	< 1,620	< 253	< 110	< 1,032	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,290,000	14,814.8	4,210	< 253	347	408	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)Pyrene	148	NS	< 1,230	< 192	< 83.6	< 78.5	< 8.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
1-Methyl Naphthalene	15,600	NS	***35,500***	4,330	2,260	3,350	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methyl Naphthalene	229,000	NS	49,000	6,460	2,910	4,230	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	5,150	658.7	***26,700***	**3,740**	**897**	**1,310**	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NS	NS	4,910	388[J]	407	491	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,720,000	54,472.5	< 1,620	< 253	< 110	< 103	< 10.5	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence **Bold**

NTEDC RCL exceedance ***Bold***

NS - No Standard

NA - Not Analyzed

[J] = Estimated Value between detection limit and quantification limit

Table 1b
Summary of Soil Analytical Results
Geoprobe Borings
Burnett Oil Company
Webster, Wisconsin

Sample Location-->			GP7			GP8			GP9			GP10		
Date-->			6/12/17			6/12/17			6/12/17			6/12/17		
Sample Depth--(Feet)>			2.5-3.0	13-15	18-20	2-4	6-8	18-20	0.5-1.0	5-6	19-20	2-4	7.5	9-10
Percent Moisture-->			16.4	3.9	4.0	14.9	11.9	23.3	19.6	16.7	3.6	10	10.7	11.8
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)												
Lead (mg/kg)	400	13.50	4.3	0.88[J]	1.0[J]	3.2	1.9	0.73[J]	**66.7**	4.8	0.75[J]	2.7	2.8	0.84[J]
Petroleum VOC's (µg/kg)														
Benzene	1,600	5.1	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	< 820	< 37.9
Ethylbenzene	8,020	1,570	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	**9,550**	< 37.9
Toluene	818,000	1,107	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	< 820	< 37.9
Xylenes (Total)	260,000	3,940	< 250	< 50	< 50	< 58.1	< 50	< 50	1,897[J]	< 50	< 53.2	< 53.2	**20,800**	< 75.8
Methly tert Butyl Ether	63,800	27	< 125	< 25	< 25	< 29.1	< 25	< 25	< 290	< 25	< 26.6	< 26.6	< 820	< 37.9
1,2,4-Trimethylbenzene	219,000	NS	< 125	< 25	< 25	< 29.1	< 25	< 25	3,440	< 25	< 26.6	< 26.6	24,000	< 37.9
1,3,5-Trimethylbenzene	182,000	NS	< 125	< 25	< 25	< 29.1	< 25	< 25	2,210	< 25	< 26.6	< 26.6	12,200	< 37.9
Trimethylbenzenes (Total)	NS	1,379	< 125	< 25	< 25	< 29.1	< 25	< 25	**5,650**	< 25	< 26.6	< 26.6	**36,200**	< 37.9
Naphthalene	5,520	658.7	***6,870***	< 25	26.9[J]	< 29.1	< 25	< 25	***14,800***	< 25	< 26.6	< 26.6	**41,400**	< 37.9

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence **Bold**

NTEDC RCL exceedance ***Bold***

NS - No Standard

NA - Not Analyzed

[J] = Estimated Value between detection limit and quantification limit

Table 1c
Summary of Soil Analytical Results
Geoprobe Borings
Burnett Oil Company
Webster, Wisconsin

Sample Location-->			GP11		GP12		GP13		GP14		GP15	
Date-->			5/2/18		5/2/18		5/2/18		5/2/18		5/2/18	
Sample Depth--(Feet)>			2-4	10-12	2-4	10-12	2-4	10-12	2-4	10-12	2-4	10-12
Percent Moisture-->			5.7	4.0	7.9	2.9	9.2	2.9	13.6	4.7	31.2	3.5
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)										
Petroleum VOC's (µg/kg)												
Benzene	1,600	5.1	**58.3**[J]	**100**	< 25	< 25.5	***2,900***	< 25	< 25	< 25	< 625	< 25
Ethylbenzene	8,020	1,570	54.6[J]	96	< 25	< 25.5	***8,450***	< 25	< 25	< 25	1,480[J]	< 25
Toluene	818,000	1,107	230	360	< 25	39.3[J]	760	< 25	< 25	< 25	< 625	< 25
Xylenes (Total)	260,000	3,940	165	381.4	< 50	< 51	**40,400**	< 50	< 50	< 50	< 1,250	< 50
Methly tert Butyl Ether	63,800	27	< 28.1	< 30.5	< 25	< 25.5	< 250	< 25	< 25	< 25	< 625	< 25
1,2,4-Trimethylbenzene	219,000	NS	36.9[J]	91.7	41.7[J]	< 25.5	24,800	< 25	< 25	40.0[J]	7,600	< 25
1,3,5-Trimethylbenzene	182,000	NS	< 28.1	< 30.5	< 25	< 25.5	10,300	< 25	< 25	< 25	5,740	< 25
Trimethylbenzenes (Total)	NS	1,379	36.9[J]	91.7	< 25	< 25.5	**35,100**	< 25	< 25	< 25	**13,340**	< 25
Naphthalene	5,520	658.7	188	35.6	< 25	< 25.5	***10,700***	< 25	< 25	< 25	***14,700***	< 25

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence	**Bold**
NTEDC RCL exceedance	***Bold***

NS - No Standard

NA - Not Analyzed

[J] = Estimated Value between detection limit and quantification limit

Table 1d
Summary of Soil Analytical Results
Monitoring Wells
Burnett Oil Company
Webster, Wisconsin

Sample Location-->			MW1			MW4		
Date-->			9/14/16			9/15/16		
Sample Depth--(Feet)>			2-4	14-16	26-28	2-3	12-14	24-26
Percent Moisture-->			13.10%	4.70%	5.40%	10.90%	4.10%	4.50%
	Non-Industrial Not-To-Exceed DC RCL	NR 140 Groundwater Pathway Protection (DF=2)						
Lead (mg/kg)	400	13.50	2.8	0.57[J]	0.94[J]	25.6	1.9	1.1[J]
Petroleum VOC's (µg/kg)								
Benzene	1,490	5.1	< 25.0	< 25.0	< 25.0	***2,560[J]***	< 25.0	< 25.0
Ethylbenzene	7,470	1,570	< 25.0	< 25.0	< 25.0	***13,100***	< 25.0	< 25.0
Toluene	818,000	1,107	< 25.0	< 25.0	< 25.0	**2,510[J]**	< 25.0	< 25.0
Xylenes (Total)	258,000	3,940	< 50.0	< 50.0	< 50.0	**133,100**	< 50.0	< 50.0
Methly tert Butyl Ether	59,400	27	< 25.0	< 25.0	< 25.0	< 1,000	< 25.0	< 25.0
1,2,4-Trimethylbenzene	89,800	NS	< 25.0	< 25.0	< 25.0	***128,000***	< 25.0	< 25.0
1,3,5-Trimethylbenzene	182,000	NS	< 25.0	< 25.0	< 25.0	52,500	< 25.0	< 25.0
Trimethylbenzenes (Total)	NS	1,379	< 25.0	< 25.0	< 25.0	**180,500**	< 25.0	< 25.0
Naphthalene	5,150	658.7	< 25.0	< 25.0	< 25.0	***53,500***	< 25.0	< 25.0

Notes:

NTEDC - Not To Exceed Direct Contact Residual Contaminant Level (RCL)

GW - RCL Protective of Groundwater Quality

< - Concentration below listed laboratory detection limit

GW - RCL exceedence	**Bold**
NTEDC RCL exceedance	***Bold***

NS - No Standard

NA - Not Analyzed

[J] = Estimated Value between detection limit and quantification limit

Table 1e
Summary of Soil Analytical Results
Vuillage of Webster Soil Stockpile
Burnett Oil Company
Webster, Wisconsin

			Sample Location-->	Composite 1	Composite 2
			Date-->	5/2/18	5/2/18
			Percent Moisture-->	8.0%	4.20%
			Saturated (S) vs Unsaturated (U)-->	Unsaturated	Unsaturated
PAH's (µg/kg)	Non-Industrial Not-to-Exceed DC RCL	Industrial Not-to-Exceed DC RCL	Groundwater Pathway Protection RCL		
Acenaphthene	3,590,000	45,200,000		< 4.2	< 4.0
Acenapthylene				5.4[J]	< 3.4
Anthracene	17,900,000	100,000,000	196,949.20	21.8	7.5[J]
Benzo (a) Anthracene	1,140	20,800	--	96.3	47
Benzo (a) Pyrene	115	2,110	470	**124**	61.9
Benzo (b) Fluoranthene	1,150	21,100	478.1	205	83.4
Benzo (g,h,i) Perylene	--	--	--	122	45.3
Benzo (k) Fluoranthene	11,500	211,000	--	96.9	73.2
Chrysene	115,000	2,110,000	144.2	138	68.9
Dibenzo (a,h) Anthracene	115	2,110	--	38	16.1
Fluoranthene	2,390,000	30,100,000	88,877.80	242	125
Fluorene	2,390,000	30,100,000	14,829.90	5.1[J]	< 4.3
Indeno (1,2,3-cd) Pyrene	1,150	21,100	--	101	37
1-Methyl Naphthalene	17,600	72,200	--	< 4.4	< 4.2
2-Methyl Naphthalene	239,000	3,010,000	--	< 5.4	< 5.2
Naphthalene	5,520	21,100	658.2	< 9.2	< 8.8
Phenanthrene	--	--	--	99	40.5
Pyrene	1,790,000	22,600,000	54,545.50	195	97.1
PVOC's (µg/kg)					
Benzene	1,600	7,070	5.1	< 25	< 25
Ethylbenzene	8,020	35,400	1,570	< 25	< 25
Methyl-tert-butyl ether (MTBE)	63,800	282,000	27	< 25	< 25
Naphthalene	5,520	24,100	658.2	< 40	< 40
Toluene	818,000	818,000	1,107.20	< 25	< 25
1,2,4-Trimethylbenzene (TMB)	219,000	219,000	1,378.70	< 25	< 25
1,3,5-Trimethylbenzene (TMB)	182,000	182,000		< 25	< 25
m&p-Xylene	260,000	260,000	3,960	< 50	< 50
o-Xylene				< 25	< 25
Metals (mg/kg)					
Arsenic (As)	0.667	3	0.584	< 1.1	< 1.1
Barium (Ba)	15,300	100,000	164.8	31	21.7
Cadmium (Cd)	71.1	985	0.752	< 0.14	0.13[J]
Total Chromium (Cr)	--	--	360,000	18.5	20.7
Lead (Pb)	400	800	27	11	4.1
Selenium (Se)	391	5,840	0.52	< 1.2	< 1.1
Silver (Ag)	391	5,840	0.8491	< 0.37	< 0.35
Mercury (Hg)	3.13	3.13	0.208	< 0.012	< 0.011

Notes:
NR 720 Standards Obtained From WDNR RR Program's Soil RCL Spreadsheet
This site is assessed as **Non-Industrial**
Cumulative RCL Calculated on: **11/1/2018**
RCL = Residual Contaminant Level
DC = Direct Contact
µg/kg = Parts Per Billion (ppb)
mg/kg = Parts Per Million (ppm)
< = Concentration Below Laboratory Detection Limit
- = Not Sampled/Collected
-- = No Standard/Not Applicable
[J] = Estimated concentration at or above the Limit of Detection (LOD) and below the Limit of Quantitation (LOQ)

Italic	= Exceeds NR720 Groundwater Pathway Protection
Bold	= Exceeds NR720 Non-Industrial Not-To-Exceed DC RCL
Underlined	= Exceeds NR720 Industrial Not-To-Exceed DC RCL

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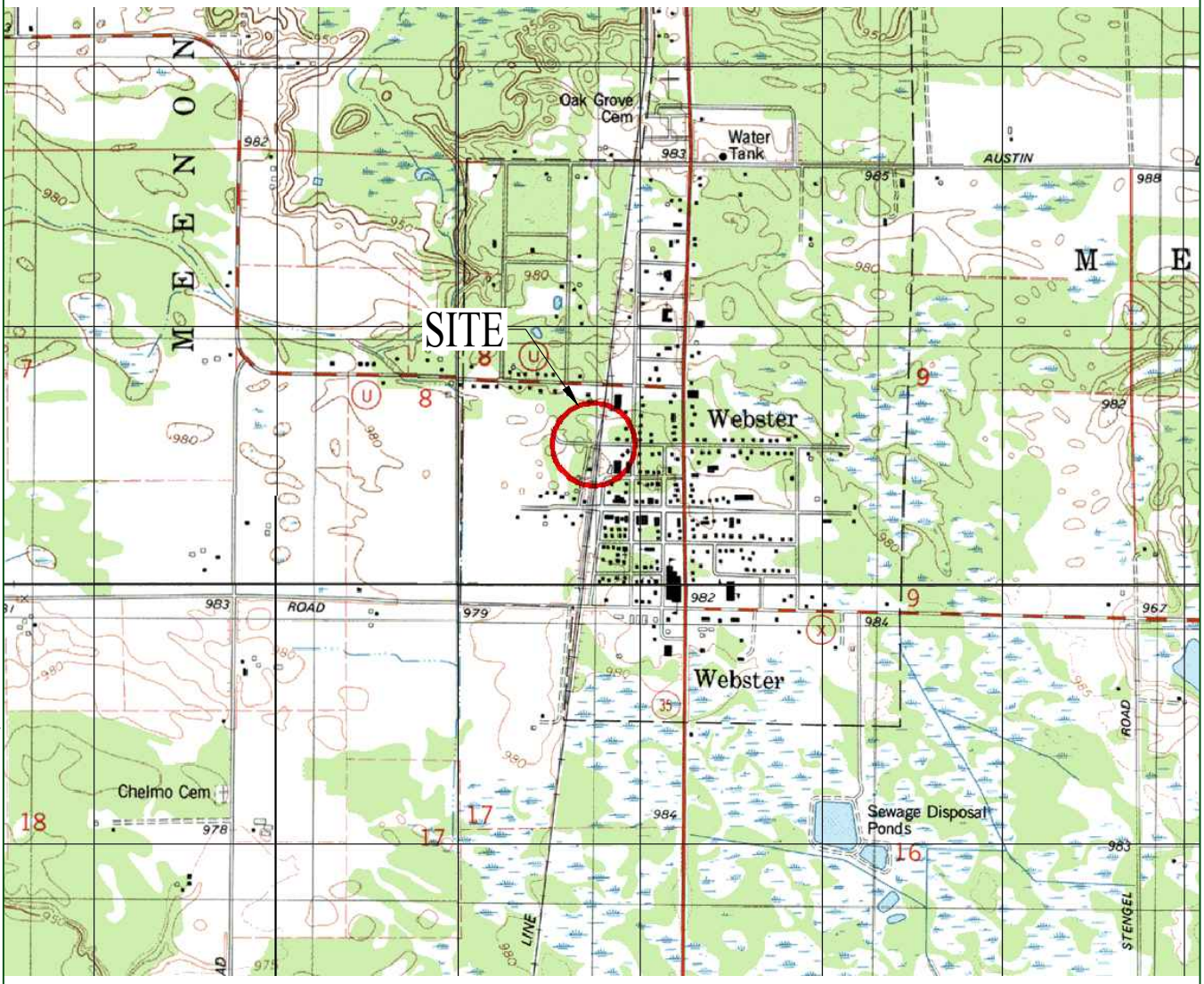
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



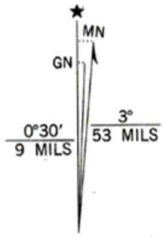
SCALE 1:24 000

1 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



UTM GRID AND 1982 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

QUADRANGLE LOCATION

WEBSTER, WIS.
NE/4 WEBSTER 15' QUADRANGLE
N4552.5–W9215/7.5

1982

DMA 2575 IV NE–SERIES V861

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 1 : SITE VICINITY MAP

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	AJG	3/10/2017

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-VICN.DWG LAYOUT: 6962-VICN PLOTTED: MAR 10, 2017 - 9:24AM PLOTTED BY: ALANG

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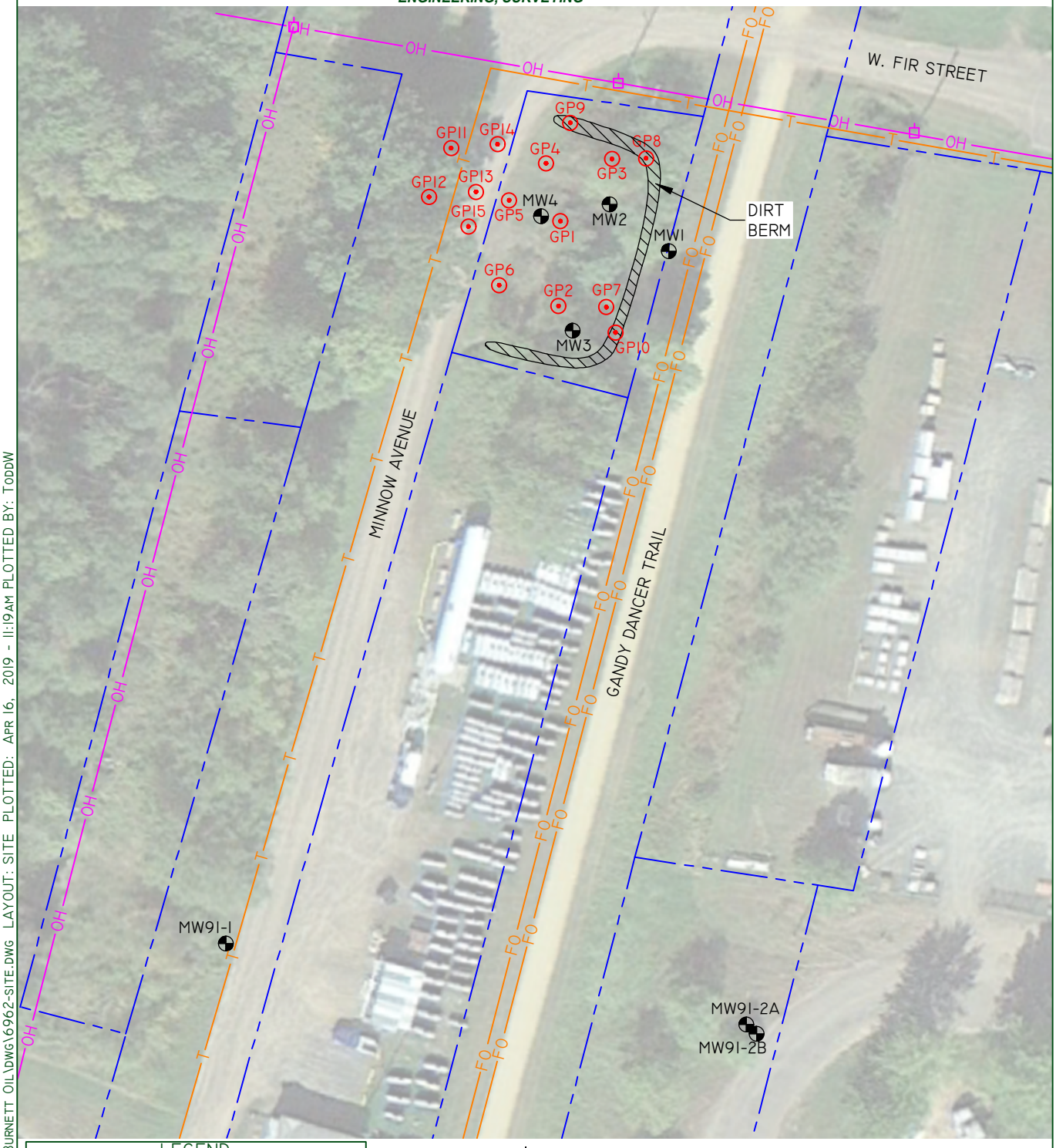
CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING



LEGEND

0 60

SCALE: 1" = 60'

- GEOPROBE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- T — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 2 : DETAILED SITE MAP

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	4/16/2019

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SITE.DWG LAYOUT: SITE PLOTTED: APR 16, 2019 - 11:19AM PLOTTED BY: TODDW

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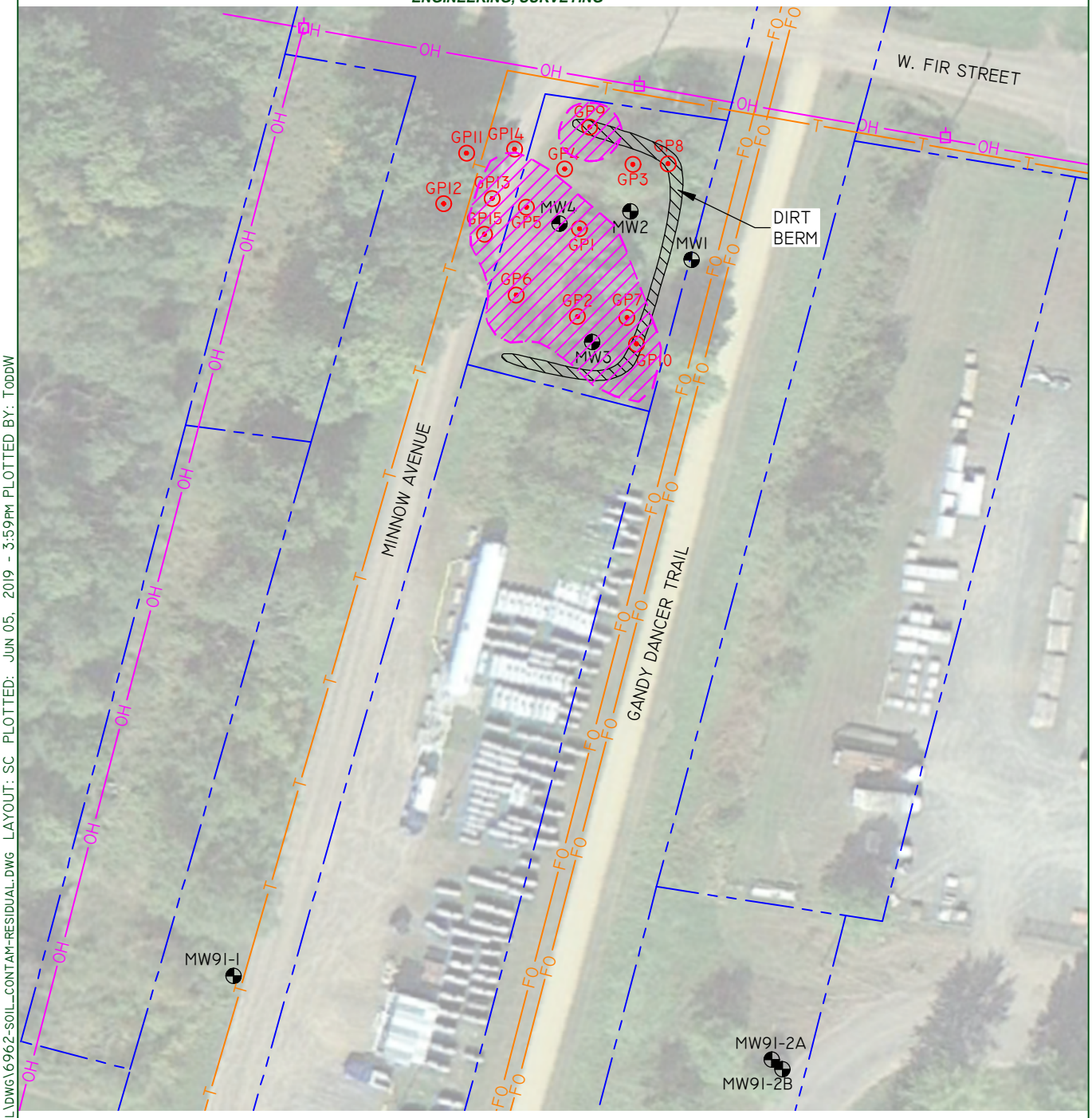
ENGINEERING, SURVEYING



LEGEND

0 60

SCALE: 1" = 60'

- GEOPROBE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- T — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)
- AREA OF RESIDUAL PETROLEUM CONTAMINATED SOIL

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 3 : AREA OF RESIDUAL SOIL CONTAMINATION

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	5/30/2019

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-SOIL_CONTAM-RESIDUAL.DWG LAYOUT: SC PLOTTED: JUN 05, 2019 - 3:59PM PLOTTED BY: TODDW

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CIVIL & ENVIRONMENTAL
ENGINEERING, SURVEYING

LEGEND

0 60

SCALE: 1" = 60'

- GEOPROBE
- MONITORING WELL
- UTILITY POLE
- OH — OVERHEAD UTILITIES
- T — UNDERGROUND TELEPHONE
- FO — UNDERGROUND FIBER OPTIC LINE
- PROPERTY LINE (APPROXIMATE)
- AREA OF PROPOSED EXCAVATION
- 4-FT DEPTH
- 10-FT DEPTH

N

REI Engineering, INC.

BURNETT OIL COMPANY
26514 MINNOW AVENUE
WEBSTER, WISCONSIN 54893

FIGURE 4 : AREA OF PROPOSED EXCAVATION

PROJECT NO.	DRAWN BY:	DATE:
6962AxUC	TAW	5/30/2019

DRAWING FILE: P:\6900-6999\6962 - BURNETT OIL\DWG\6962-P-EXCAV.DWG LAYOUT: P-EXCAV PLOTTED: JUN 05, 2019 - 4:06PM PLOTTED BY: TODDW

APPENDIX A

SOIL BORING LOGS AND ABANDONMENT FORMS

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP11

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	5/2/18	5/2/18	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1		42		1–3	**TOPSOIL** Wet topsoil **SAND** Brown sand (F-M) with clay **CLAY** Grey clay with mottles **SAND** Brown sand (F-M)	SC CL SW			0.0 ppm						
2		42		4–9					0.0 ppm 0.0 ppm 0.0 ppm						
3		18		10–11	**SAND** Light brown dry sand (F-M)				0.0 ppm						
				12–15	**EOB** EOB @12' BLS										

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

Signature	Firm
(Ted Kusch RET)	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes 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

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP12

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	5/2/18	5/2/18	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑
State Plane
Lat
Long
Local Grid Location N ☐ S ☐ E ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
1		32		1	**TOPSOIL** Wet topsoil										
				1	**CLAY** Brown/grey clay with fine sand and mottles	CL			0.0 ppm						
				2	**SAND** Brown sand (F-M)										
				3											
				4					0.0 ppm						
2		30		5											
				6					0.0 ppm						
				7		SW									
				8					0.0 ppm						
				9	**SAND** Brown sand (F-C)										
3		18		10	**SAND** Light brown dry sand (F-C)										
				11					0.0 ppm						
				12	**EOB** EOB @12' BLS										
				13											
				14											
				15											

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

Signature	Firm
Jed Rasch REI	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP13

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	5/2/18	5/2/18	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑ State Plane | Lat / Long | Local Grid Location N ☐ S ☐ E ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0	**GRAVEL** Crushed gravel										
1		38		1–5	**CLAY** Brown/grey clay with fine sand and mottles	CL			1436 ppm 173 ppm						
2		36		5–10	**SAND** Dark brown sand (F-M) -Petro Odor	SW			1574 ppm 432 ppm						
3		18		10–12	**SAND** Light brown dry sand (F-C)				6.8 ppm						
				12	**EOB** EOB @12' BLS										
				13–15											

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

Signature	Firm	
Jed Kostka (Jed Kostka REI)	REI Engineering, Inc.	4080 North 20th Avenue, Wausau, WI

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State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP14

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	5/2/18	5/2/18	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑ State Plane | Lat / Long | Local Grid Location N ☐ S ☐ E ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				0	**GRAVEL** Crushed gravel										
				1	**CLAY** Stained grey clay	CL			3.8 ppm						
1		38		2	**SAND** Dark brown sand (F-M)										
				3											
				4					1.8 ppm						
				5	**SAND** Brown sand (F-M)										
				6					0.2 ppm						
2		40		7		SW									
				8					11.2 ppm						
				9					68 ppm						
				10	**SAND** Brown Sand (F-C)										
3		22		11					0.4 ppm						
				12	**EOB** EOB @12' BLS										
				13											
				14											
				15											

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

Signature	Firm
Ted Koch (Ted Koch REI)	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI

This form is authorized by Chapters 281,283,289,292,293,295, and 299, Wis. Stats. Completion of thes 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

Route To: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment ☑ Other ☐

Facility/Project Name	License/Permit/Monitoring Number	Boring Number
Burnett Oil	BRRTS#02-07-282564	GP15

Boring Drilled By: Name of crew chief (first, last) and Firm	Date Drilling Started	Date Drilling Completed	Drilling Method
Mitch Panfil - Gestra Engineering	5/2/18	5/2/18	Geoprobe

WI Unique Well No.	DNR Well ID No.	Common Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
				0	2.25"

Local Grid Orgin ☐ (estimated) ☐ or Boring Location ☑	Lat	Local Grid Location
State Plane	Long	N ☐ E ☐ S ☐ W ☐

Facility ID	County	County Code	Civil Town/City/or Village
	Burnett	07	Webster

Sample Number	Sample Type	Sample Length Att. & Recovered (in)	Blow Counts	Depth In Feet	Soil/ Rock Description And Geologic Origin For Each Major Unit	U.S.C.S.	Graphic	Well	PID/FID	Soil Properties: Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD/ Comments
				1	**GRAVEL** Crushed gravel										
					SAND Brown/black sand (F-M) with clay	SW			0.0 ppm						
1		38		2	**CLAY** Brown/grey clay with mottles										
				3		CL									
				4					115 ppm						
					SAND Grey/black sand (F-M)										
				5	**SAND** Brown Sand (F-M)										
				6					439 ppm						
2		42		7											
				8	**SAND** Light brown sand (F-C)	SW									
				9					5.0 ppm						
				10											
3		22		11					0.2 ppm						
				12	**EOB** EOB @12' BLS										
				13											
				14											
				15											

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

Signature	Firm	REI Engineering, Inc. 4080 North 20th Avenue, Wausau, WI
(Jed Losch REI)		

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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 #
Burnett	GP-11	

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

¼ / ¼	¼	Section	Township	Range
NE	SE	08	T39 N	16 ☐ E ☑ W

or Gov't Lot #

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP11

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett County
Present Well Owner: Burnett County
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 5/2/18

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'	2"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

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): _____

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" bentonite Chips	Surface	12'	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		5/2/18

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	(Jed Wasch REI)	5/11/18

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 #
Burnett	GP-12	

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

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP12

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett County
Present Well Owner: Burnett County
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 5/2/18
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'	2"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

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): _____

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

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" bentonite Chips	Surface	12'	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		5/2/18

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	(Jed Kosch REI)	5/11/18

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 #
Burnett	GP-13	

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

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP13

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett County
Present Well Owner: Burnett County
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 5/2/18
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'	2"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

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): _____

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" bentonite Chips	Surface	12'	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		5/2/18

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	Jed Kusta (Jed Kusta KEI)	5/11/18

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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☐ **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 #
Burnett	GP-14	

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

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP14

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett County
Present Well Owner: Burnett County
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 5/2/18
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'	2"

Lower Drillhole Diameter (in.)	Casing Depth (ft.)

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): _____

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" bentonite Chips	Surface	12'	1/3 bag	

6. Comments

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)
Gestra (Mitch Panfil), REI Engineering		5/2/18

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	Jed Kosch (REI)	5/11/18

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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☐ **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 #
Burnett	GP-15	

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

¼ / ¼ NE	¼ SE	Section	Township	Range
or Gov't Lot #		08	T39 N	16 ☐ E ☑ W

Well Street Address: 26504 Minnow Ave

Well City, Village or Town	Well ZIP Code
Village of Webster	54893

Subdivision Name	Lot #

Reason for Removal from Service	WI Unique Well # of Replacement Well
Temporary Borehole	GP15

2. Facility / Owner Information

Facility Name: Burnett Oil
Facility ID (FID or PWS):
License/Permit/Monitoring #: 02-07-282564
Original Well Owner: Burnett County
Present Well Owner: Burnett County
Mailing Address of Present Owner: 7410 County HWY K

City of Present Owner	State	ZIP Code
Siren	WI	54872

3. Filled & Sealed Well / Drillhole / Borehole Information

☐ Monitoring Well
☐ Water Well
☑ Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 5/2/18

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'	2"
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**

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

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☑ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped
☐ Screened & Poured (Bentonite Chips) ☐ Other (Explain): _____

Sealing Materials
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For Monitoring Wells and Monitoring Well Boreholes Only:
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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" bentonite Chips	Surface	12'	1/3 bag	

6. Comments

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Gestra (Mitch Panfil), REI Engineering		5/2/18

Street or Route	Telephone Number
4080 N. 20th Avenue	(715) 675-9784

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
Wausau	WI	54401	Jed Kosch (REI)	5/11/18

DNR Use Only

Date Received	Noted By

Comments:

APPENDIX B

LABORATORY ANALYTICAL REPORT

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

May 25, 2018

DAVID LARSEN
REI
4080 NORTH 20TH AVENUE
Wausau, WI 54401

RE: Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Dear DAVID LARSEN:
Enclosed are the analytical results for sample(s) received by the laboratory on May 07, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

Brian Basten
brian.basten@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: 6962 BURNETT OIL
Pace Project No.: 40168662

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302
Florida/NELAP Certification #: E87948
Illinois Certification #: 200050
Kentucky UST Certification #: 82
Louisiana Certification #: 04168
Minnesota Certification #: 055-999-334
New York Certification #: 12064
North Dakota Certification #: R-150
Virginia VELAP ID: 460263
South Carolina Certification #: 83006001
Texas Certification #: T104704529-14-1
Wisconsin Certification #: 405132750
Wisconsin DATCP Certification #: 105-444
USDA Soil Permit #: P330-16-00157
Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40168662001	**GP11 @ 2-4**	Solid	05/02/18 12:00	05/07/18 09:00
40168662002	**GP11 @ 10-12**	Solid	05/02/18 12:10	05/07/18 09:00
40168662003	**GP12 @ 2-4**	Solid	05/02/18 12:30	05/07/18 09:00
40168662004	**GP12 @ 10-12**	Solid	05/02/18 12:35	05/07/18 09:00
40168662005	**GP13 @ 2-4**	Solid	05/02/18 13:00	05/07/18 09:00
40168662006	**GP13 @ 10-12**	Solid	05/02/18 13:10	05/07/18 09:00
40168662007	**GP14 @ 2-4**	Solid	05/02/18 13:30	05/07/18 09:00
40168662008	**GP14 @ 10-12**	Solid	05/02/18 13:40	05/07/18 09:00
40168662009	**GP15 @ 2-4**	Solid	05/02/18 14:00	05/07/18 09:00
40168662010	**GP15 @ 10-12**	Solid	05/02/18 14:15	05/07/18 09:00
40168662011	**COMPOSITE 1**	Solid	05/01/18 00:00	05/07/18 09:00
40168662012	**COMPOSITE 2**	Solid	05/01/18 00:00	05/07/18 09:00

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

SAMPLE ANALYTE COUNT

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Lab ID	Sample ID	Method	Analysts	Analytes Reported
40168662001	**GP11 @ 2-4**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662002	**GP11 @ 10-12**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662003	**GP12 @ 2-4**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662004	**GP12 @ 10-12**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662005	**GP13 @ 2-4**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662006	**GP13 @ 10-12**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662007	**GP14 @ 2-4**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662008	**GP14 @ 10-12**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662009	**GP15 @ 2-4**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662010	**GP15 @ 10-12**	WI MOD GRO	ALD	10
		ASTM D2974-87	AH	1
40168662011	**COMPOSITE 1**	EPA 6010	JLD	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	ARO	20
		EPA 8260	MDS	64
		ASTM D2974-87	AH	1
40168662012	**COMPOSITE 2**	EPA 6010	JLD	7
		EPA 7471	AJT	1
		EPA 8270 by SIM	RJN	20
		EPA 8260	MDS	64
		ASTM D2974-87	AH	1

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: GP11 @ 2-4 **Lab ID: 40168662001** Collected: 05/02/18 12:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**58.3J**	ug/kg	71.5	29.8	1	05/11/18 08:45	05/11/18 16:40	71-43-2	
Ethylbenzene	**54.6J**	ug/kg	71.5	29.8	1	05/11/18 08:45	05/11/18 16:40	100-41-4	
Methyl-tert-butyl ether	**<28.1**	ug/kg	67.4	28.1	1	05/11/18 08:45	05/11/18 16:40	1634-04-4	W
Naphthalene	**188**	ug/kg	71.5	29.8	1	05/11/18 08:45	05/11/18 16:40	91-20-3	
Toluene	**230**	ug/kg	71.5	29.8	1	05/11/18 08:45	05/11/18 16:40	108-88-3	
1,2,4-Trimethylbenzene	**36.9J**	ug/kg	71.5	29.8	1	05/11/18 08:45	05/11/18 16:40	95-63-6	
1,3,5-Trimethylbenzene	**<28.1**	ug/kg	67.4	28.1	1	05/11/18 08:45	05/11/18 16:40	108-67-8	W
m&p-Xylene	**165**	ug/kg	143	59.5	1	05/11/18 08:45	05/11/18 16:40	179601-23-1	
o-Xylene	**66.4J**	ug/kg	71.5	29.8	1	05/11/18 08:45	05/11/18 16:40	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	05/11/18 08:45	05/11/18 16:40	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.7**	%	0.10	0.10	1		05/19/18 08:16		

Sample: GP11 @ 10-12 **Lab ID: 40168662002** Collected: 05/02/18 12:10 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**100**	ug/kg	77.2	32.2	1	05/11/18 08:45	05/11/18 13:25	71-43-2	
Ethylbenzene	**96.0**	ug/kg	77.2	32.2	1	05/11/18 08:45	05/11/18 13:25	100-41-4	
Methyl-tert-butyl ether	**<30.5**	ug/kg	73.2	30.5	1	05/11/18 08:45	05/11/18 13:25	1634-04-4	W
Naphthalene	**35.6J**	ug/kg	77.2	32.2	1	05/11/18 08:45	05/11/18 13:25	91-20-3	
Toluene	**360**	ug/kg	77.2	32.2	1	05/11/18 08:45	05/11/18 13:25	108-88-3	
1,2,4-Trimethylbenzene	**91.7**	ug/kg	77.2	32.2	1	05/11/18 08:45	05/11/18 13:25	95-63-6	
1,3,5-Trimethylbenzene	**<30.5**	ug/kg	73.2	30.5	1	05/11/18 08:45	05/11/18 13:25	108-67-8	W
m&p-Xylene	**290**	ug/kg	154	64.3	1	05/11/18 08:45	05/11/18 13:25	179601-23-1	
o-Xylene	**91.4**	ug/kg	77.2	32.2	1	05/11/18 08:45	05/11/18 13:25	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	103	%	80-120		1	05/11/18 08:45	05/11/18 13:25	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**5.2**	%	0.10	0.10	1		05/19/18 08:16		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: GP12 @ 2-4 **Lab ID: 40168662003** Collected: 05/02/18 12:30 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	108-88-3	W
1,2,4-Trimethylbenzene	**41.7J**	ug/kg	65.1	27.1	1	05/11/18 08:45	05/11/18 13:51	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/11/18 08:45	05/11/18 13:51	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 13:51	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	05/11/18 08:45	05/11/18 13:51	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**7.9**	%	0.10	0.10	1		05/19/18 08:16		

Sample: GP12 @ 10-12 **Lab ID: 40168662004** Collected: 05/02/18 12:35 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	71-43-2	W
Ethylbenzene	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	100-41-4	W
Methyl-tert-butyl ether	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	1634-04-4	W
Naphthalene	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	91-20-3	W
Toluene	**39.3J**	ug/kg	63.1	26.3	1	05/11/18 08:45	05/11/18 14:16	108-88-3	
1,2,4-Trimethylbenzene	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	95-63-6	W
1,3,5-Trimethylbenzene	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	108-67-8	W
m&p-Xylene	**<51.0**	ug/kg	122	51.0	1	05/11/18 08:45	05/11/18 14:16	179601-23-1	W
o-Xylene	**<25.5**	ug/kg	61.2	25.5	1	05/11/18 08:45	05/11/18 14:16	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	05/11/18 08:45	05/11/18 14:16	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.9**	%	0.10	0.10	1		05/19/18 08:16		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: GP13 @ 2-4 **Lab ID: 40168662005** Collected: 05/02/18 13:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**2900**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	71-43-2	
Ethylbenzene	**8450**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	100-41-4	
Methyl-tert-butyl ether	**<250**	ug/kg	600	250	10	05/11/18 08:45	05/11/18 17:05	1634-04-4	W
Naphthalene	**10700**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	91-20-3	
Toluene	**760**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	108-88-3	
1,2,4-Trimethylbenzene	**24800**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	95-63-6	
1,3,5-Trimethylbenzene	**10300**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	108-67-8	
m&p-Xylene	**27900**	ug/kg	1320	551	10	05/11/18 08:45	05/11/18 17:05	179601-23-1	
o-Xylene	**12500**	ug/kg	661	275	10	05/11/18 08:45	05/11/18 17:05	95-47-6	
Surrogates									
a,a,a-Trifluorotoluene (S)	107	%	80-120		10	05/11/18 08:45	05/11/18 17:05	98-08-8	D3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**9.2**	%	0.10	0.10	1		05/19/18 08:16		

Sample: GP13 @ 10-12 **Lab ID: 40168662006** Collected: 05/02/18 13:10 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/11/18 08:45	05/11/18 14:42	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 14:42	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	101	%	80-120		1	05/11/18 08:45	05/11/18 14:42	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**2.9**	%	0.10	0.10	1		05/19/18 08:16		

REPORT OF LABORATORY ANALYSIS

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

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: GP14 @ 2-4 **Lab ID: 40168662007** Collected: 05/02/18 13:30 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/11/18 08:45	05/11/18 15:08	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 15:08	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	05/11/18 08:45	05/11/18 15:08	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**13.6**	%	0.10	0.10	1		05/19/18 08:16		

Sample: GP14 @ 10-12 **Lab ID: 40168662008** Collected: 05/02/18 13:40 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	108-88-3	W
1,2,4-Trimethylbenzene	**40.0J**	ug/kg	62.9	26.2	1	05/11/18 08:45	05/11/18 19:38	95-63-6	
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/11/18 08:45	05/11/18 19:38	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 19:38	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	100	%	80-120		1	05/11/18 08:45	05/11/18 19:38	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.7**	%	0.10	0.10	1		05/19/18 08:17		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: GP15 @ 2-4 **Lab ID: 40168662009** Collected: 05/02/18 14:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<625**	ug/kg	1500	625	25	05/11/18 08:45	05/11/18 17:31	71-43-2	W
Ethylbenzene	**1480J**	ug/kg	2180	908	25	05/11/18 08:45	05/11/18 17:31	100-41-4	
Methyl-tert-butyl ether	**<625**	ug/kg	1500	625	25	05/11/18 08:45	05/11/18 17:31	1634-04-4	W
Naphthalene	**14700**	ug/kg	2180	908	25	05/11/18 08:45	05/11/18 17:31	91-20-3	
Toluene	**<625**	ug/kg	1500	625	25	05/11/18 08:45	05/11/18 17:31	108-88-3	W
1,2,4-Trimethylbenzene	**7600**	ug/kg	2180	908	25	05/11/18 08:45	05/11/18 17:31	95-63-6	
1,3,5-Trimethylbenzene	**5740**	ug/kg	2180	908	25	05/11/18 08:45	05/11/18 17:31	108-67-8	
m&p-Xylene	**<1250**	ug/kg	3000	1250	25	05/11/18 08:45	05/11/18 17:31	179601-23-1	W
o-Xylene	**<625**	ug/kg	1500	625	25	05/11/18 08:45	05/11/18 17:31	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		25	05/11/18 08:45	05/11/18 17:31	98-08-8	D3
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**31.2**	%	0.10	0.10	1		05/19/18 08:17		

Sample: GP15 @ 10-12 **Lab ID: 40168662010** Collected: 05/02/18 14:15 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: TPH GRO/PVOC WI ext.								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	71-43-2	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	100-41-4	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	1634-04-4	W
Naphthalene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	91-20-3	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	108-88-3	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	108-67-8	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/11/18 08:45	05/11/18 20:04	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/11/18 08:45	05/11/18 20:04	95-47-6	W
Surrogates									
a,a,a-Trifluorotoluene (S)	102	%	80-120		1	05/11/18 08:45	05/11/18 20:04	98-08-8	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**3.5**	%	0.10	0.10	1		05/19/18 08:17		

REPORT OF LABORATORY ANALYSIS

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

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: COMPOSITE 1 **Lab ID: 40168662011** Collected: 05/01/18 00:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.1**	mg/kg	5.4	1.1	1	05/14/18 17:30	05/15/18 13:41	7440-38-2	
Barium	**31.0**	mg/kg	0.54	0.16	1	05/14/18 17:30	05/15/18 13:41	7440-39-3	
Cadmium	**<0.14**	mg/kg	0.54	0.14	1	05/14/18 17:30	05/15/18 13:41	7440-43-9	
Chromium	**18.5**	mg/kg	1.1	0.30	1	05/14/18 17:30	05/15/18 13:41	7440-47-3	
Lead	**11.0**	mg/kg	1.4	0.47	1	05/14/18 17:30	05/15/18 13:41	7439-92-1	
Selenium	**<1.2**	mg/kg	5.4	1.2	1	05/14/18 17:30	05/15/18 13:41	7782-49-2	
Silver	**<0.37**	mg/kg	1.1	0.37	1	05/14/18 17:30	05/15/18 13:41	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.012**	mg/kg	0.040	0.012	1	05/15/18 11:49	05/16/18 09:32	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.2**	ug/kg	14.0	4.2	1	05/09/18 08:49	05/10/18 14:04	83-32-9	
Acenaphthylene	**5.4J**	ug/kg	12.0	3.6	1	05/09/18 08:49	05/10/18 14:04	208-96-8	
Anthracene	**21.8**	ug/kg	20.7	6.2	1	05/09/18 08:49	05/10/18 14:04	120-12-7	
Benzo(a)anthracene	**96.3**	ug/kg	11.5	3.4	1	05/09/18 08:49	05/10/18 14:04	56-55-3	
Benzo(a)pyrene	**124**	ug/kg	9.1	2.7	1	05/09/18 08:49	05/10/18 14:04	50-32-8	
Benzo(b)fluoranthene	**205**	ug/kg	10.2	3.1	1	05/09/18 08:49	05/10/18 14:04	205-99-2	
Benzo(g,h,i)perylene	**122**	ug/kg	7.4	2.2	1	05/09/18 08:49	05/10/18 14:04	191-24-2	
Benzo(k)fluoranthene	**96.9**	ug/kg	9.1	2.7	1	05/09/18 08:49	05/10/18 14:04	207-08-9	
Chrysene	**138**	ug/kg	12.2	3.7	1	05/09/18 08:49	05/10/18 14:04	218-01-9	
Dibenz(a,h)anthracene	**38.0**	ug/kg	8.1	2.4	1	05/09/18 08:49	05/10/18 14:04	53-70-3	
Fluoranthene	**242**	ug/kg	18.9	5.7	1	05/09/18 08:49	05/10/18 14:04	206-44-0	
Fluorene	**5.1J**	ug/kg	15.0	4.5	1	05/09/18 08:49	05/10/18 14:04	86-73-7	
Indeno(1,2,3-cd)pyrene	**101**	ug/kg	8.0	2.4	1	05/09/18 08:49	05/10/18 14:04	193-39-5	
1-Methylnaphthalene	**<4.4**	ug/kg	14.6	4.4	1	05/09/18 08:49	05/10/18 14:04	90-12-0	
2-Methylnaphthalene	**<5.4**	ug/kg	18.2	5.4	1	05/09/18 08:49	05/10/18 14:04	91-57-6	
Naphthalene	**<9.2**	ug/kg	30.6	9.2	1	05/09/18 08:49	05/10/18 14:04	91-20-3	
Phenanthrene	**99.0**	ug/kg	42.2	12.7	1	05/09/18 08:49	05/10/18 14:04	85-01-8	
Pyrene	**195**	ug/kg	16.3	4.9	1	05/09/18 08:49	05/10/18 14:04	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	66	%	10-115		1	05/09/18 08:49	05/10/18 14:04	321-60-8	
Terphenyl-d14 (S)	78	%	10-121		1	05/09/18 08:49	05/10/18 14:04	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/09/18 08:30	05/09/18 19:00	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	56-23-5	W

REPORT OF LABORATORY ANALYSIS

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

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: COMPOSITE 1 **Lab ID: 40168662011** Collected: 05/01/18 00:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/09/18 08:30	05/09/18 19:00	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/09/18 08:30	05/09/18 19:00	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/09/18 08:30	05/09/18 19:00	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	563-58-6	W
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/09/18 08:30	05/09/18 19:00	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/09/18 08:30	05/09/18 19:00	120-82-1	L2,W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-69-4	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: COMPOSITE 1 **Lab ID: 40168662011** Collected: 05/01/18 00:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/09/18 08:30	05/09/18 19:00	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 19:00	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	76	%	68-130		1	05/09/18 08:30	05/09/18 19:00	1868-53-7	
Toluene-d8 (S)	72	%	68-149		1	05/09/18 08:30	05/09/18 19:00	2037-26-5	
4-Bromofluorobenzene (S)	61	%	58-141		1	05/09/18 08:30	05/09/18 19:00	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**8.0**	%	0.10	0.10	1		05/19/18 08:17		

Sample: COMPOSITE 2 **Lab ID: 40168662012** Collected: 05/01/18 00:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Arsenic	**<1.1**	mg/kg	5.1	1.1	1	05/14/18 17:30	05/15/18 13:48	7440-38-2	
Barium	**21.7**	mg/kg	0.51	0.15	1	05/14/18 17:30	05/15/18 13:48	7440-39-3	
Cadmium	**0.13J**	mg/kg	0.51	0.13	1	05/14/18 17:30	05/15/18 13:48	7440-43-9	
Chromium	**20.7**	mg/kg	1.0	0.28	1	05/14/18 17:30	05/15/18 13:48	7440-47-3	
Lead	**4.1**	mg/kg	1.3	0.44	1	05/14/18 17:30	05/15/18 13:48	7439-92-1	
Selenium	**<1.1**	mg/kg	5.1	1.1	1	05/14/18 17:30	05/15/18 13:48	7782-49-2	
Silver	**<0.35**	mg/kg	1.0	0.35	1	05/14/18 17:30	05/15/18 13:48	7440-22-4	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471								
Mercury	**<0.011**	mg/kg	0.036	0.011	1	05/15/18 11:49	05/16/18 09:39	7439-97-6	
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Acenaphthene	**<4.0**	ug/kg	13.4	4.0	1	05/09/18 08:49	05/11/18 15:57	83-32-9	
Acenaphthylene	**<3.4**	ug/kg	11.5	3.4	1	05/09/18 08:49	05/11/18 15:57	208-96-8	
Anthracene	**7.5J**	ug/kg	19.8	5.9	1	05/09/18 08:49	05/11/18 15:57	120-12-7	
Benzo(a)anthracene	**47.0**	ug/kg	11.0	3.3	1	05/09/18 08:49	05/11/18 15:57	56-55-3	
Benzo(a)pyrene	**61.9**	ug/kg	8.7	2.6	1	05/09/18 08:49	05/11/18 15:57	50-32-8	
Benzo(b)fluoranthene	**83.4**	ug/kg	9.8	2.9	1	05/09/18 08:49	05/11/18 15:57	205-99-2	
Benzo(g,h,i)perylene	**45.3**	ug/kg	7.1	2.1	1	05/09/18 08:49	05/11/18 15:57	191-24-2	
Benzo(k)fluoranthene	**73.2**	ug/kg	8.7	2.6	1	05/09/18 08:49	05/11/18 15:57	207-08-9	
Chrysene	**68.9**	ug/kg	11.7	3.5	1	05/09/18 08:49	05/11/18 15:57	218-01-9	
Dibenz(a,h)anthracene	**16.1**	ug/kg	7.8	2.3	1	05/09/18 08:49	05/11/18 15:57	53-70-3	
Fluoranthene	**125**	ug/kg	18.1	5.4	1	05/09/18 08:49	05/11/18 15:57	206-44-0	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: COMPOSITE 2 **Lab ID: 40168662012** Collected: 05/01/18 00:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM	Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546								
Fluorene	**<4.3**	ug/kg	14.4	4.3	1	05/09/18 08:49	05/11/18 15:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**37.0**	ug/kg	7.6	2.3	1	05/09/18 08:49	05/11/18 15:57	193-39-5	
1-Methylnaphthalene	**<4.2**	ug/kg	14.0	4.2	1	05/09/18 08:49	05/11/18 15:57	90-12-0	
2-Methylnaphthalene	**<5.2**	ug/kg	17.4	5.2	1	05/09/18 08:49	05/11/18 15:57	91-57-6	
Naphthalene	**<8.8**	ug/kg	29.3	8.8	1	05/09/18 08:49	05/11/18 15:57	91-20-3	
Phenanthrene	**40.5**	ug/kg	40.4	12.1	1	05/09/18 08:49	05/11/18 15:57	85-01-8	
Pyrene	**97.1**	ug/kg	15.6	4.7	1	05/09/18 08:49	05/11/18 15:57	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	10-115		1	05/09/18 08:49	05/11/18 15:57	321-60-8	
Terphenyl-d14 (S)	78	%	10-121		1	05/09/18 08:49	05/11/18 15:57	1718-51-0	
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
Benzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	71-43-2	W
Bromobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	108-86-1	W
Bromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	74-97-5	W
Bromodichloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-27-4	W
Bromoform	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-25-2	W
Bromomethane	**<69.9**	ug/kg	250	69.9	1	05/09/18 08:30	05/09/18 16:18	74-83-9	W
n-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	104-51-8	W
sec-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	135-98-8	W
tert-Butylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	98-06-6	W
Carbon tetrachloride	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	56-23-5	W
Chlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	108-90-7	W
Chloroethane	**<67.0**	ug/kg	250	67.0	1	05/09/18 08:30	05/09/18 16:18	75-00-3	W
Chloroform	**<46.4**	ug/kg	250	46.4	1	05/09/18 08:30	05/09/18 16:18	67-66-3	W
Chloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	74-87-3	W
2-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	95-49-8	W
4-Chlorotoluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	106-43-4	W
1,2-Dibromo-3-chloropropane	**<91.2**	ug/kg	250	91.2	1	05/09/18 08:30	05/09/18 16:18	96-12-8	W
Dibromochloromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	124-48-1	W
1,2-Dibromoethane (EDB)	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	106-93-4	W
Dibromomethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	74-95-3	W
1,2-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	95-50-1	W
1,3-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	541-73-1	W
1,4-Dichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	106-46-7	W
Dichlorodifluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-71-8	W
1,1-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-34-3	W
1,2-Dichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	107-06-2	W
1,1-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-35-4	W
cis-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	156-59-2	W
trans-1,2-Dichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	156-60-5	W
1,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	78-87-5	W
1,3-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	142-28-9	W
2,2-Dichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	594-20-7	W
1,1-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	563-58-6	W

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Sample: COMPOSITE 2 **Lab ID: 40168662012** Collected: 05/01/18 00:00 Received: 05/07/18 09:00 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Med Level Normal List	Analytical Method: EPA 8260 Preparation Method: EPA 5035/5030B								
cis-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	10061-01-5	W
trans-1,3-Dichloropropene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	10061-02-6	W
Diisopropyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	108-20-3	W
Ethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	100-41-4	W
Hexachloro-1,3-butadiene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	87-68-3	W
Isopropylbenzene (Cumene)	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	98-82-8	W
p-Isopropyltoluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	99-87-6	W
Methylene Chloride	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-09-2	W
Methyl-tert-butyl ether	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	1634-04-4	W
Naphthalene	**<40.0**	ug/kg	250	40.0	1	05/09/18 08:30	05/09/18 16:18	91-20-3	W
n-Propylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	103-65-1	W
Styrene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	100-42-5	W
1,1,1,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	630-20-6	W
1,1,2,2-Tetrachloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	79-34-5	W
Tetrachloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	127-18-4	W
Toluene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	108-88-3	W
1,2,3-Trichlorobenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	87-61-6	W
1,2,4-Trichlorobenzene	**<47.6**	ug/kg	250	47.6	1	05/09/18 08:30	05/09/18 16:18	120-82-1	L2,W
1,1,1-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	71-55-6	W
1,1,2-Trichloroethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	79-00-5	W
Trichloroethene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	79-01-6	W
Trichlorofluoromethane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-69-4	W
1,2,3-Trichloropropane	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	96-18-4	W
1,2,4-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	95-63-6	W
1,3,5-Trimethylbenzene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	108-67-8	W
Vinyl chloride	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	75-01-4	W
m&p-Xylene	**<50.0**	ug/kg	120	50.0	1	05/09/18 08:30	05/09/18 16:18	179601-23-1	W
o-Xylene	**<25.0**	ug/kg	60.0	25.0	1	05/09/18 08:30	05/09/18 16:18	95-47-6	W
Surrogates									
Dibromofluoromethane (S)	98	%	68-130		1	05/09/18 08:30	05/09/18 16:18	1868-53-7	
Toluene-d8 (S)	92	%	68-149		1	05/09/18 08:30	05/09/18 16:18	2037-26-5	
4-Bromofluorobenzene (S)	80	%	58-141		1	05/09/18 08:30	05/09/18 16:18	460-00-4	
Percent Moisture	Analytical Method: ASTM D2974-87								
Percent Moisture	**4.2**	%	0.10	0.10	1		05/19/18 08:17		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

QC Batch: 288552 Analysis Method: WI MOD GRO
QC Batch Method: TPH GRO/PVOC WI ext. Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 40168662001, 40168662002, 40168662003, 40168662004, 40168662005, 40168662006, 40168662007, 40168662008, 40168662009, 40168662010

METHOD BLANK: 1688687 Matrix: Solid
Associated Lab Samples: 40168662001, 40168662002, 40168662003, 40168662004, 40168662005, 40168662006, 40168662007, 40168662008, 40168662009, 40168662010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	<25.0	50.0	05/11/18 09:35	
1,3,5-Trimethylbenzene	ug/kg	<25.0	50.0	05/11/18 09:35	
Benzene	ug/kg	<25.0	50.0	05/11/18 09:35	
Ethylbenzene	ug/kg	<25.0	50.0	05/11/18 09:35	
m&p-Xylene	ug/kg	<50.0	100	05/11/18 09:35	
Methyl-tert-butyl ether	ug/kg	<25.0	50.0	05/11/18 09:35	
Naphthalene	ug/kg	<25.0	50.0	05/11/18 09:35	
o-Xylene	ug/kg	<25.0	50.0	05/11/18 09:35	
Toluene	ug/kg	<25.0	50.0	05/11/18 09:35	
a,a,a-Trifluorotoluene (S)	%	101	80-120	05/11/18 09:35	

LABORATORY CONTROL SAMPLE & LCSD: 1688688 1688689

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,4-Trimethylbenzene	ug/kg	1000	1060	1060	106	106	80-120	0	20	
1,3,5-Trimethylbenzene	ug/kg	1000	1020	1020	102	102	80-120	0	20	
Benzene	ug/kg	1000	987	1000	99	100	80-120	2	20	
Ethylbenzene	ug/kg	1000	1040	1040	104	104	80-120	0	20	
m&p-Xylene	ug/kg	2000	2060	2040	103	102	80-120	1	20	
Methyl-tert-butyl ether	ug/kg	1000	945	947	95	95	80-120	0	20	
Naphthalene	ug/kg	1000	1040	1040	104	104	80-120	0	20	
o-Xylene	ug/kg	1000	1020	1020	102	102	80-120	0	20	
Toluene	ug/kg	1000	1020	1020	102	102	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%				101	101	80-120			

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

QC Batch: 288898 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 40168662011, 40168662012

METHOD BLANK: 1690498 Matrix: Solid
Associated Lab Samples: 40168662011, 40168662012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	<0.011	0.037	05/16/18 09:28	

LABORATORY CONTROL SAMPLE: 1690499

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.83	0.87	105	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1690500 1690501

Parameter	Units	40168662011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	<0.012	.9	.9	0.94	0.98	104	108	85-115	4	20	

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REPORT OF LABORATORY ANALYSIS

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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

QC Batch: 288666 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 40168662011, 40168662012

METHOD BLANK: 1689310 Matrix: Solid
Associated Lab Samples: 40168662011, 40168662012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	<1.0	5.0	05/15/18 13:36	
Barium	mg/kg	<0.15	0.50	05/15/18 13:36	
Cadmium	mg/kg	<0.13	0.50	05/15/18 13:36	
Chromium	mg/kg	<0.28	1.0	05/15/18 13:36	
Lead	mg/kg	<0.43	1.3	05/15/18 13:36	
Selenium	mg/kg	<1.1	5.0	05/15/18 13:36	
Silver	mg/kg	<0.34	1.0	05/15/18 13:36	

LABORATORY CONTROL SAMPLE: 1689311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	50	50.6	101	80-120	
Barium	mg/kg	50	52.2	104	80-120	
Cadmium	mg/kg	50	51.1	102	80-120	
Chromium	mg/kg	50	51.6	103	80-120	
Lead	mg/kg	50	51.7	103	80-120	
Selenium	mg/kg	50	49.6	99	80-120	
Silver	mg/kg	25	25.7	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1689312 1689313

Parameter	Units	40168662011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	<1.1	53.9	54	50.7	51.1	92	92	75-125	1	20	
Barium	mg/kg	31.0	53.9	54	89.0	92.5	107	114	75-125	4	20	
Cadmium	mg/kg	<0.14	53.9	54	51.8	52.1	96	96	75-125	1	20	
Chromium	mg/kg	18.5	53.9	54	69.6	73.9	95	102	75-125	6	20	
Lead	mg/kg	11.0	53.9	54	65.5	59.5	101	90	75-125	10	20	
Selenium	mg/kg	<1.2	53.9	54	48.0	49.3	89	91	75-125	3	20	
Silver	mg/kg	<0.37	27	27.1	26.5	26.7	97	98	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(920)469-2436

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

QC Batch: 288300 Analysis Method: EPA 8260
QC Batch Method: EPA 5035/5030B Analysis Description: 8260 MSV Med Level Normal List
Associated Lab Samples: 40168662011, 40168662012

METHOD BLANK: 1686853 Matrix: Solid
Associated Lab Samples: 40168662011, 40168662012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/kg	<13.7	50.0	05/09/18 09:44	
1,1,1-Trichloroethane	ug/kg	<14.4	50.0	05/09/18 09:44	
1,1,2,2-Tetrachloroethane	ug/kg	<17.5	50.0	05/09/18 09:44	
1,1,2-Trichloroethane	ug/kg	<20.2	50.0	05/09/18 09:44	
1,1-Dichloroethane	ug/kg	<17.6	50.0	05/09/18 09:44	
1,1-Dichloroethene	ug/kg	<17.6	50.0	05/09/18 09:44	
1,1-Dichloropropene	ug/kg	<14.0	50.0	05/09/18 09:44	
1,2,3-Trichlorobenzene	ug/kg	<17.0	50.0	05/09/18 09:44	
1,2,3-Trichloropropane	ug/kg	<22.3	50.0	05/09/18 09:44	
1,2,4-Trichlorobenzene	ug/kg	<47.6	250	05/09/18 09:44	
1,2,4-Trimethylbenzene	ug/kg	<12.2	50.0	05/09/18 09:44	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	250	05/09/18 09:44	
1,2-Dibromoethane (EDB)	ug/kg	<14.7	50.0	05/09/18 09:44	
1,2-Dichlorobenzene	ug/kg	<16.2	50.0	05/09/18 09:44	
1,2-Dichloroethane	ug/kg	<15.0	50.0	05/09/18 09:44	
1,2-Dichloropropane	ug/kg	<16.8	50.0	05/09/18 09:44	
1,3,5-Trimethylbenzene	ug/kg	<14.5	50.0	05/09/18 09:44	
1,3-Dichlorobenzene	ug/kg	<13.2	50.0	05/09/18 09:44	
1,3-Dichloropropane	ug/kg	<12.0	50.0	05/09/18 09:44	
1,4-Dichlorobenzene	ug/kg	<15.9	50.0	05/09/18 09:44	
2,2-Dichloropropane	ug/kg	<12.6	50.0	05/09/18 09:44	
2-Chlorotoluene	ug/kg	<15.8	50.0	05/09/18 09:44	
4-Chlorotoluene	ug/kg	<13.0	50.0	05/09/18 09:44	
Benzene	ug/kg	<9.2	20.0	05/09/18 09:44	
Bromobenzene	ug/kg	<20.6	50.0	05/09/18 09:44	
Bromochloromethane	ug/kg	<21.4	50.0	05/09/18 09:44	
Bromodichloromethane	ug/kg	<9.8	50.0	05/09/18 09:44	
Bromoform	ug/kg	<19.8	50.0	05/09/18 09:44	
Bromomethane	ug/kg	<69.9	250	05/09/18 09:44	
Carbon tetrachloride	ug/kg	<12.1	50.0	05/09/18 09:44	
Chlorobenzene	ug/kg	<14.8	50.0	05/09/18 09:44	
Chloroethane	ug/kg	<67.0	250	05/09/18 09:44	
Chloroform	ug/kg	<46.4	250	05/09/18 09:44	
Chloromethane	ug/kg	<20.4	50.0	05/09/18 09:44	
cis-1,2-Dichloroethene	ug/kg	<16.6	50.0	05/09/18 09:44	
cis-1,3-Dichloropropene	ug/kg	<16.6	50.0	05/09/18 09:44	
Dibromochloromethane	ug/kg	<17.9	50.0	05/09/18 09:44	
Dibromomethane	ug/kg	<19.3	50.0	05/09/18 09:44	
Dichlorodifluoromethane	ug/kg	<12.3	50.0	05/09/18 09:44	
Diisopropyl ether	ug/kg	<17.7	50.0	05/09/18 09:44	
Ethylbenzene	ug/kg	<12.4	50.0	05/09/18 09:44	

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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: 6962 BURNETT OIL
Pace Project No.: 40168662

METHOD BLANK: 1686853 Matrix: Solid
Associated Lab Samples: 40168662011, 40168662012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/kg	41.1J	50.0	05/09/18 09:44	
Isopropylbenzene (Cumene)	ug/kg	<12.6	50.0	05/09/18 09:44	
m&p-Xylene	ug/kg	<34.4	100	05/09/18 09:44	
Methyl-tert-butyl ether	ug/kg	<12.7	50.0	05/09/18 09:44	
Methylene Chloride	ug/kg	<16.2	50.0	05/09/18 09:44	
n-Butylbenzene	ug/kg	<10.5	50.0	05/09/18 09:44	
n-Propylbenzene	ug/kg	<11.6	50.0	05/09/18 09:44	
Naphthalene	ug/kg	<40.0	250	05/09/18 09:44	
o-Xylene	ug/kg	<14.0	50.0	05/09/18 09:44	
p-Isopropyltoluene	ug/kg	<12.0	50.0	05/09/18 09:44	
sec-Butylbenzene	ug/kg	<11.9	50.0	05/09/18 09:44	
Styrene	ug/kg	<9.0	50.0	05/09/18 09:44	
tert-Butylbenzene	ug/kg	<9.5	50.0	05/09/18 09:44	
Tetrachloroethene	ug/kg	<12.9	50.0	05/09/18 09:44	
Toluene	ug/kg	<11.2	50.0	05/09/18 09:44	
trans-1,2-Dichloroethene	ug/kg	<16.5	50.0	05/09/18 09:44	
trans-1,3-Dichloropropene	ug/kg	<14.4	50.0	05/09/18 09:44	
Trichloroethene	ug/kg	<23.6	50.0	05/09/18 09:44	
Trichlorofluoromethane	ug/kg	<24.7	50.0	05/09/18 09:44	
Vinyl chloride	ug/kg	<21.1	50.0	05/09/18 09:44	
4-Bromofluorobenzene (S)	%	70	58-141	05/09/18 09:44	
Dibromofluoromethane (S)	%	80	68-130	05/09/18 09:44	
Toluene-d8 (S)	%	80	68-149	05/09/18 09:44	

LABORATORY CONTROL SAMPLE: 1686854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/kg	2500	2140	86	61-122	
1,1,2,2-Tetrachloroethane	ug/kg	2500	2470	99	73-130	
1,1,2-Trichloroethane	ug/kg	2500	2190	87	70-130	
1,1-Dichloroethane	ug/kg	2500	2170	87	63-124	
1,1-Dichloroethene	ug/kg	2500	1760	71	53-117	
1,2,4-Trichlorobenzene	ug/kg	2500	1890	76	78-130	L2
1,2-Dibromo-3-chloropropane	ug/kg	2500	2120	85	49-140	
1,2-Dibromoethane (EDB)	ug/kg	2500	2240	90	70-130	
1,2-Dichlorobenzene	ug/kg	2500	2160	86	70-130	
1,2-Dichloroethane	ug/kg	2500	2120	85	56-135	
1,2-Dichloropropane	ug/kg	2500	2180	87	77-122	
1,3-Dichlorobenzene	ug/kg	2500	2060	82	70-130	
1,4-Dichlorobenzene	ug/kg	2500	2150	86	70-130	
Benzene	ug/kg	2500	2110	85	66-130	
Bromodichloromethane	ug/kg	2500	2250	90	62-135	
Bromoform	ug/kg	2500	2030	81	68-130	
Bromomethane	ug/kg	2500	1710	68	29-137	

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

LABORATORY CONTROL SAMPLE: 1686854

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/kg	2500	2180	87	57-130	
Chlorobenzene	ug/kg	2500	2150	86	70-130	
Chloroethane	ug/kg	2500	2010	81	36-144	
Chloroform	ug/kg	2500	2140	86	69-115	
Chloromethane	ug/kg	2500	2000	80	32-126	
cis-1,2-Dichloroethene	ug/kg	2500	2010	80	65-130	
cis-1,3-Dichloropropene	ug/kg	2500	2140	86	70-130	
Dibromochloromethane	ug/kg	2500	2170	87	70-130	
Dichlorodifluoromethane	ug/kg	2500	1470	59	10-99	
Ethylbenzene	ug/kg	2500	2090	84	82-122	
Isopropylbenzene (Cumene)	ug/kg	2500	2080	83	70-130	
m&p-Xylene	ug/kg	5000	4250	85	70-130	
Methyl-tert-butyl ether	ug/kg	2500	1970	79	63-134	
Methylene Chloride	ug/kg	2500	1920	77	56-123	
o-Xylene	ug/kg	2500	2140	86	70-130	
Styrene	ug/kg	2500	2240	89	70-130	
Tetrachloroethene	ug/kg	2500	2160	87	70-131	
Toluene	ug/kg	2500	2150	86	80-120	
trans-1,2-Dichloroethene	ug/kg	2500	1990	80	66-130	
trans-1,3-Dichloropropene	ug/kg	2500	2180	87	68-130	
Trichloroethene	ug/kg	2500	2110	84	70-130	
Trichlorofluoromethane	ug/kg	2500	1810	72	37-149	
Vinyl chloride	ug/kg	2500	2030	81	43-128	
4-Bromofluorobenzene (S)	%			78	58-141	
Dibromofluoromethane (S)	%			86	68-130	
Toluene-d8 (S)	%			83	68-149	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686855 1686856

Parameter	Units	40168727002 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/kg	<25.0	1530	1530	1320	1170	86	76	57-123	13	20	
1,1,2,2-Tetrachloroethane	ug/kg	<25.0	1530	1530	1670	1690	109	111	73-135	1	20	
1,1,2-Trichloroethane	ug/kg	<25.0	1530	1530	1400	1400	92	92	70-130	0	20	
1,1-Dichloroethane	ug/kg	<25.0	1530	1530	1370	1300	90	85	63-124	5	20	
1,1-Dichloroethene	ug/kg	<25.0	1530	1530	1050	859	69	56	48-117	20	23	
1,2,4-Trichlorobenzene	ug/kg	<47.6	1530	1530	1400	1340	91	87	78-145	5	20	
1,2-Dibromo-3-chloropropane	ug/kg	<91.2	1530	1530	1480	1570	97	103	38-168	6	22	
1,2-Dibromoethane (EDB)	ug/kg	<25.0	1530	1530	1480	1490	97	97	70-130	1	20	
1,2-Dichlorobenzene	ug/kg	<25.0	1530	1530	1450	1410	95	92	70-130	3	20	
1,2-Dichloroethane	ug/kg	<25.0	1530	1530	1220	1310	80	86	56-145	7	20	
1,2-Dichloropropane	ug/kg	<25.0	1530	1530	1330	1300	87	85	77-123	3	20	
1,3-Dichlorobenzene	ug/kg	<25.0	1530	1530	1450	1310	95	86	70-130	10	20	
1,4-Dichlorobenzene	ug/kg	<25.0	1530	1530	1520	1390	99	91	70-130	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686855 1686856

Parameter	Units	40168727002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	ug/kg	<25.0	1530	1530	1240	1210	81	79	65-130	2	20	
Bromodichloromethane	ug/kg	<25.0	1530	1530	1400	1320	92	86	59-141	6	20	
Bromoform	ug/kg	<25.0	1530	1530	1460	1540	96	101	59-141	5	20	
Bromomethane	ug/kg	<69.9	1530	1530	1060	1030	69	68	28-139	3	20	
Carbon tetrachloride	ug/kg	<25.0	1530	1530	1360	1170	89	76	50-130	15	20	
Chlorobenzene	ug/kg	<25.0	1530	1530	1430	1360	94	89	70-130	5	20	
Chloroethane	ug/kg	<67.0	1530	1530	1200	1150	79	75	36-144	5	20	
Chloroform	ug/kg	<46.4	1530	1530	1350	1280	88	84	68-122	5	20	
Chloromethane	ug/kg	<25.0	1530	1530	1210	1120	79	73	30-126	7	20	
cis-1,2-Dichloroethene	ug/kg	<25.0	1530	1530	1260	1170	83	77	63-130	7	20	
cis-1,3-Dichloropropene	ug/kg	<25.0	1530	1530	1380	1260	90	82	70-130	9	20	
Dibromochloromethane	ug/kg	<25.0	1530	1530	1450	1460	95	95	66-136	0	20	
Dichlorodifluoromethane	ug/kg	<25.0	1530	1530	974	830	64	54	10-99	16	33	
Ethylbenzene	ug/kg	<25.0	1530	1530	1340	1250	87	81	80-122	7	20	
Isopropylbenzene (Cumene)	ug/kg	<25.0	1530	1530	1340	1240	88	81	70-130	7	20	
m&p-Xylene	ug/kg	<50.0	3060	3060	2760	2550	90	83	70-130	8	20	
Methyl-tert-butyl ether	ug/kg	<25.0	1530	1530	1290	1260	84	83	63-134	2	20	
Methylene Chloride	ug/kg	<25.0	1530	1530	888	1130	58	74	56-127	24	20	R1
o-Xylene	ug/kg	<25.0	1530	1530	1380	1290	90	84	70-130	6	20	
Styrene	ug/kg	<25.0	1530	1530	1450	1380	95	90	70-130	5	20	
Tetrachloroethene	ug/kg	<25.0	1530	1530	1320	1300	86	85	70-131	2	20	
Toluene	ug/kg	<25.0	1530	1530	1310	1350	86	88	80-120	3	20	
trans-1,2-Dichloroethene	ug/kg	<25.0	1530	1530	1270	1090	83	71	60-130	15	20	
trans-1,3-Dichloropropene	ug/kg	<25.0	1530	1530	1420	1400	93	91	68-130	1	20	
Trichloroethene	ug/kg	<25.0	1530	1530	1330	1270	87	83	70-130	5	20	
Trichlorofluoromethane	ug/kg	<25.0	1530	1530	1140	1030	75	68	37-149	10	24	
Vinyl chloride	ug/kg	<25.0	1530	1530	1170	1070	76	70	39-128	8	20	
4-Bromofluorobenzene (S)	%						74	74	58-141			
Dibromofluoromethane (S)	%						84	84	68-130			
Toluene-d8 (S)	%						79	80	68-149			

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

QC Batch: 288270 Analysis Method: EPA 8270 by SIM
QC Batch Method: EPA 3546 Analysis Description: 8270/3546 MSSV PAH by SIM
Associated Lab Samples: 40168662011, 40168662012

METHOD BLANK: 1686646 Matrix: Solid
Associated Lab Samples: 40168662011, 40168662012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1-Methylnaphthalene	ug/kg	<4.0	13.4	05/09/18 11:41	
2-Methylnaphthalene	ug/kg	<5.0	16.7	05/09/18 11:41	
Acenaphthene	ug/kg	<3.9	12.9	05/09/18 11:41	
Acenaphthylene	ug/kg	<3.3	11.0	05/09/18 11:41	
Anthracene	ug/kg	<5.7	19.0	05/09/18 11:41	
Benzo(a)anthracene	ug/kg	<3.2	10.6	05/09/18 11:41	
Benzo(a)pyrene	ug/kg	<2.5	8.4	05/09/18 11:41	
Benzo(b)fluoranthene	ug/kg	<2.8	9.4	05/09/18 11:41	
Benzo(g,h,i)perylene	ug/kg	<2.0	6.8	05/09/18 11:41	
Benzo(k)fluoranthene	ug/kg	<2.5	8.4	05/09/18 11:41	
Chrysene	ug/kg	<3.4	11.2	05/09/18 11:41	
Dibenz(a,h)anthracene	ug/kg	<2.2	7.5	05/09/18 11:41	
Fluoranthene	ug/kg	<5.2	17.4	05/09/18 11:41	
Fluorene	ug/kg	<4.1	13.8	05/09/18 11:41	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.2	7.3	05/09/18 11:41	
Naphthalene	ug/kg	<8.4	28.1	05/09/18 11:41	
Phenanthrene	ug/kg	<11.7	38.8	05/09/18 11:41	
Pyrene	ug/kg	<4.5	15.0	05/09/18 11:41	
2-Fluorobiphenyl (S)	%	71	10-115	05/09/18 11:41	
Terphenyl-d14 (S)	%	85	10-121	05/09/18 11:41	

LABORATORY CONTROL SAMPLE: 1686647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	ug/kg	333	262	79	48-99	
2-Methylnaphthalene	ug/kg	333	255	76	47-91	
Acenaphthene	ug/kg	333	253	76	53-98	
Acenaphthylene	ug/kg	333	250	75	52-96	
Anthracene	ug/kg	333	272	81	55-105	
Benzo(a)anthracene	ug/kg	333	275	83	55-98	
Benzo(a)pyrene	ug/kg	333	271	81	57-100	
Benzo(b)fluoranthene	ug/kg	333	283	85	57-103	
Benzo(g,h,i)perylene	ug/kg	333	251	75	39-103	
Benzo(k)fluoranthene	ug/kg	333	274	82	53-111	
Chrysene	ug/kg	333	284	85	55-102	
Dibenz(a,h)anthracene	ug/kg	333	263	79	47-97	
Fluoranthene	ug/kg	333	278	84	51-118	
Fluorene	ug/kg	333	254	76	55-99	
Indeno(1,2,3-cd)pyrene	ug/kg	333	270	81	47-108	
Naphthalene	ug/kg	333	258	78	48-95	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

LABORATORY CONTROL SAMPLE: 1686647

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenanthrene	ug/kg	333	276	83	55-105	
Pyrene	ug/kg	333	269	81	58-106	
2-Fluorobiphenyl (S)	%			75	10-115	
Terphenyl-d14 (S)	%			93	10-121	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1686648 1686649

Parameter	Units	40168629013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1-Methylnaphthalene	ug/kg	<4.3	352	354	260	256	73	72	41-99	2	30	
2-Methylnaphthalene	ug/kg	<5.3	352	354	254	240	71	67	41-91	6	27	
Acenaphthene	ug/kg	<4.1	352	354	236	216	67	61	46-98	9	25	
Acenaphthylene	ug/kg	<3.5	352	354	233	208	66	59	43-96	11	26	
Anthracene	ug/kg	<6.0	352	354	250	227	71	64	44-105	10	29	
Benzo(a)anthracene	ug/kg	4.7J	352	354	263	243	73	67	39-98	8	29	
Benzo(a)pyrene	ug/kg	4.7J	352	354	264	245	74	68	38-100	8	35	
Benzo(b)fluoranthene	ug/kg	4.4J	352	354	281	245	79	68	32-105	14	34	
Benzo(g,h,i)perylene	ug/kg	2.4J	352	354	157	145	44	40	12-103	8	35	
Benzo(k)fluoranthene	ug/kg	4.1J	352	354	264	265	74	74	30-115	0	37	
Chrysene	ug/kg	6.5J	352	354	278	256	77	71	46-102	8	27	
Dibenz(a,h)anthracene	ug/kg	<2.4	352	354	205	182	58	51	32-97	11	35	
Fluoranthene	ug/kg	8.3J	352	354	283	263	78	72	32-118	7	37	
Fluorene	ug/kg	<4.4	352	354	236	210	67	59	44-99	12	28	
Indeno(1,2,3-cd)pyrene	ug/kg	<2.3	352	354	203	182	57	51	20-111	11	33	
Naphthalene	ug/kg	<8.9	352	354	243	223	69	63	39-97	8	30	
Phenanthrene	ug/kg	<12.3	352	354	271	251	76	70	34-110	8	39	
Pyrene	ug/kg	9.3J	352	354	292	261	80	71	37-109	11	33	
2-Fluorobiphenyl (S)	%						67	61	10-115			
Terphenyl-d14 (S)	%						84	73	10-121			

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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: 6962 BURNETT OIL
Pace Project No.: 40168662

QC Batch: 289384 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 40168662001, 40168662002, 40168662003, 40168662004, 40168662005, 40168662006, 40168662007, 40168662008, 40168662009, 40168662010, 40168662011, 40168662012

SAMPLE DUPLICATE: 1693680

Parameter	Units	40168656045 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	9.3	9.5	2	10	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

DEFINITIONS

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

ND - Not Detected at or above LOD.

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

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

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
L2	Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results may be biased low.
R1	RPD value was outside control limits.
W	Non-detect results are reported on a wet weight basis.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 6962 BURNETT OIL
Pace Project No.: 40168662

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40168662001	**GP11 @ 2-4**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662002	**GP11 @ 10-12**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662003	**GP12 @ 2-4**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662004	**GP12 @ 10-12**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662005	**GP13 @ 2-4**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662006	**GP13 @ 10-12**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662007	**GP14 @ 2-4**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662008	**GP14 @ 10-12**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662009	**GP15 @ 2-4**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662010	**GP15 @ 10-12**	TPH GRO/PVOC WI ext.	288552	WI MOD GRO	288583
40168662011	**COMPOSITE 1**	EPA 3050	288666	EPA 6010	288940
40168662012	**COMPOSITE 2**	EPA 3050	288666	EPA 6010	288940
40168662011	**COMPOSITE 1**	EPA 7471	288898	EPA 7471	288970
40168662012	**COMPOSITE 2**	EPA 7471	288898	EPA 7471	288970
40168662011	**COMPOSITE 1**	EPA 3546	288270	EPA 8270 by SIM	288296
40168662012	**COMPOSITE 2**	EPA 3546	288270	EPA 8270 by SIM	288296
40168662011	**COMPOSITE 1**	EPA 5035/5030B	288300	EPA 8260	288301
40168662012	**COMPOSITE 2**	EPA 5035/5030B	288300	EPA 8260	288301
40168662001	**GP11 @ 2-4**	ASTM D2974-87	289384		
40168662002	**GP11 @ 10-12**	ASTM D2974-87	289384		
40168662003	**GP12 @ 2-4**	ASTM D2974-87	289384		
40168662004	**GP12 @ 10-12**	ASTM D2974-87	289384		
40168662005	**GP13 @ 2-4**	ASTM D2974-87	289384		
40168662006	**GP13 @ 10-12**	ASTM D2974-87	289384		
40168662007	**GP14 @ 2-4**	ASTM D2974-87	289384		
40168662008	**GP14 @ 10-12**	ASTM D2974-87	289384		
40168662009	**GP15 @ 2-4**	ASTM D2974-87	289384		
40168662010	**GP15 @ 10-12**	ASTM D2974-87	289384		
40168662011	**COMPOSITE 1**	ASTM D2974-87	289384		
40168662012	**COMPOSITE 2**	ASTM D2974-87	289384		

(Please Print Clearly)

Company Name:	RET
Branch/Location:	
Project Contact:	DAVID LARSEN
Phone:	715 675-9784
Project Number:	6962
Project Name:	Burnett Oil
Project State:	WI
Sampled By (Print):	D. Larsen / J. Kosch
Sampled By (Sign):	[signature]
PO #:	Regulatory Program: RCRA

Pace Analytical®
www.pacelabs.com

CHAIN OF CUSTODY

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

40168662
~~40168656~~ 5/7/18

Page 17 of 31

*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:	
Mail To Company:	
Mail To Address:	
Invoice To Contact:	
Invoice To Company:	
Invoice To Address:	
Invoice To Phone:	

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

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

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

FILTERED? (YES/NO) Y/N: N, N
PRESERVATION (CODE)* Pick Letter: F, A

Analyses Requested: PVOC/N | Dry Weight | VOC | PAH | RCRA Metals

PACE LAB #	CLIENT FIELD ID	COLLECTION DATE	COLLECTION TIME	MATRIX	PVOC/N	Dry Weight	VOC	PAH	RCRA Metals				CLIENT COMMENTS	LAB COMMENTS (Lab Use Only)	Profile #
001	GP11@2-4	5/2/18	12:00	Soil	X	X									
002	GP11@10-12		12:10		X	X									
003	GP12@2-4		12:30		X	X									
004	GP12@10-12		12:35		X	X									
005	GP13@2-4		1:00		X	X									
006	GP13@10-12		1:10		X	X									
007	GP14@2-4		1:30		X	X									
008	GP14@10-12		1:40		X	X									
009	GP15@2-4		2:00		X	X									
010	GP15@10-12		2:15		X	X									
011	Composite 1	5-1-18		Soil		X	X	X	X						
012	Composite 2					X	X	X	X						

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Transmit Prelim Rush Results by (complete what you want):

Email #1:	
Email #2:	
Telephone:	
Fax:	

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

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	05/3/18 3:30		
Walter	5/7/18 0900	[signature]	5/7/18 0900

PACE Project No. 40168662 ~~40168656~~

Receipt Temp = ROI °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, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302

Sample Preservation Receipt Form

Client Name: REI Project #

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

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

Pace Lab #	Glass							Plastic							Vials						Jars			General			VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN							
001																									1								2.5 / 5 / 10
002																									1								2.5 / 5 / 10
003																									1								2.5 / 5 / 10
004																									1								2.5 / 5 / 10
005																									1								2.5 / 5 / 10
006																									1								2.5 / 5 / 10
007																									1								2.5 / 5 / 10
008																									1								2.5 / 5 / 10
009																									1								2.5 / 5 / 10
010																									1								2.5 / 5 / 10
011																																	2.5 / 5 / 10
012																																	2.5 / 5 / 10
013																																	2.5 / 5 / 10
014																																	2.5 / 5 / 10
015																																	2.5 / 5 / 10
016																																	2.5 / 5 / 10
017																																	2.5 / 5 / 10
018																																	2.5 / 5 / 10
019																																	2.5 / 5 / 10
020																																	2.5 / 5 / 10

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

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

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

Sample Condition Upon Receipt Form (SCUR)

Project #:

AFFIX WORKORDER LABEL HERE

Client Name: REI

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

Tracking #: 1712685-1

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

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

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

Thermometer Used SR - MA **Type of Ice:** Wet Blue Dry None ☒ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROT /Corr:

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

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

Person examining contents:
Date: 5/8/18
Initials: SSM

Chain of Custody Present:	☐Yes ☒No ☐N/A	1. Dry weight + volume for previously received project
Chain of Custody Filled Out:	☐Yes ☐No ☒N/A	2. SSM 5/8/18
Chain of Custody Relinquished:	☐Yes ☐No ☒N/A	3.
Sampler Name & Signature on COC:	☐Yes ☐No ☒N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☒No	6.
Rush Turn Around Time Requested:	☐Yes ☒No	7. SSM 5/8/18
Sufficient Volume: For Analysis: ☐Yes ☒No MS/MSD: ☐Yes ☐No ☒N/A		8. ~~SSM~~ → No volume received for 011-012 All Received 5-7-18 SSM 5/8/18
Correct Containers Used:	☐Yes ☒No	9.
-Pace Containers Used:	☐Yes ☒No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☒N/A	
Containers Intact:	☒Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☐Yes ☒No ☐N/A	12. No dates on collected "12:00" on ID" GP 12 02 SSM 5/8/18
-Includes date/time/ID/Analysis Matrix: S		
Trip Blank Present:	☐Yes ☐No ☒N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review: **Date:**

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

Sample Preservation Receipt Form

Client Name: REI Project # 40168656

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

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

Pace Lab #	Glass: AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	Plastic: BP1U	BP2N	BP2Z	BP3U	BP3C	BP3N	BP3S	Vials: DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	Jars: JGFU	WGFU	WPFU	General: SP5T	ZPLC	GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001																			1														2.5 / 5 / 10
002																			1														2.5 / 5 / 10
003																			1														2.5 / 5 / 10
004																			1														2.5 / 5 / 10
005																			1														2.5 / 5 / 10
006																			1														2.5 / 5 / 10
007																			1														2.5 / 5 / 10
008																			1														2.5 / 5 / 10
009																			1														2.5 / 5 / 10
010																			1														2.5 / 5 / 10
011																			1		2												2.5 / 5 / 10
012																			1		2												2.5 / 5 / 10
013	1																		1				1										2.5 / 5 / 10
014	2																		1				1										2.5 / 5 / 10
015	3																		1				1										2.5 / 5 / 10
016	4																		1				1										2.5 / 5 / 10
017	5																		1				1										2.5 / 5 / 10
018	6																		1				1										2.5 / 5 / 10
019	7																		1				1										2.5 / 5 / 10
020	8																		1				1										2.5 / 5 / 10

5-7-18 SN

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

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

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5/8/18 SN

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

Sample Condition Upon Receipt Form (SCUR)

Project #: WO#: 40168662

Client Name: REI

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

Tracking #: 1709827

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

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

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Thermometer Used SR - NA **Type of Ice:** (Wet) Blue Dry None ☑ Samples on ice, cooling process has begun

Cooler Temperature Uncorr: /Corr: RO

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

Person examining contents: Date: 5/7/18 Initials: SW

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

Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No	5.
- VOA Samples frozen upon receipt	☐Yes ☐No	Date/Time:
Short Hold Time Analysis (<72hr):	☐Yes ☑No	6.
Rush Turn Around Time Requested:	☐Yes ☑No	7.
Sufficient Volume: For Analysis: ☑Yes ☐No MS/MSD: ☐Yes ☑No ☐N/A		8.
Correct Containers Used:	☑Yes ☐No	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
-Pace IR Containers Used:	☐Yes ☐No ☑N/A	
Containers Intact:	☑Yes ☐No	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC: -Includes date/time/ID/Analysis Matrix: S	☐Yes ☑No ☐N/A	12. See attached dry weight Volume. OK No dry No time 5/7/18 SW
Trip Blank Present:	☐Yes ☐No ☑N/A	13.
Trip Blank Custody Seals Present	☐Yes ☐No ☑N/A	
Pace Trip Blank Lot # (if purchased):		

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

Person Contacted: Date/Time:

Comments/ Resolution: Recieved 5/4/18. PM emailed client regarding missing dry weights. Missing Volume to be received from Client 5/7/18 SW on 5-8-18 per Dave Larson GG 5-7-18

Project Manager Review: GG **Date:** 5-7-18