From:	Jason Powell <jasonp@metcofs.com></jasonp@metcofs.com>
Sent:	Tuesday, March 30, 2021 1:14 PM
То:	Delcore, Lee R - DNR
Cc:	Ann Polzean; Ron Anderson
Subject:	Herriges Oil Bulk Plant South - results of the recent Geoprobe soil
	sampling project - 230 Prospect Street, Kewaskum WI
Attachments:	0312_001.pdf; 0313_001.pdf; 0314_001.pdf; 0315_001.pdf

Good morning Lee, attached is the updated site layout map, updated soil/residual soil tables, and laboratory document.

In discussions with our client, this area was a former bulk plant from the 1920s or 1930s to 2001 when the bulk plant was dismantled and removed. The only fill material that was known to be brought into the site was a thin layer of gravel prior to the construction of the existing building.

On March 8, 2021, twelve additional Geoprobe soil borings were conducted to 2 or 4 feet below ground surface to further define PVOC and PAH contamination. Six of the borings (G-26, -27, -28, -31, -32, and -33) were used to further define horizontal extent and six of the borings (G-22, -23, -24, -25, -29, and -30) were used to determine if the shallow soil (0-2 feet bgs) could be considered as cap material to address the direct contact exceedances already noted at 3.0-3.5 feet bgs.

The six borings conducted to define horizontal extent showed no direct contact or groundwater pathway exceedances for PAH compounds.

Three of the six borings (G-24, -25, and -30) conducted to 2 feet bgs showed no direct contact exceedances for PAH or PVOC compounds. It should be noted that groundwater RCL exceedances for PVOCs were noted in borings G-24 and G-25.

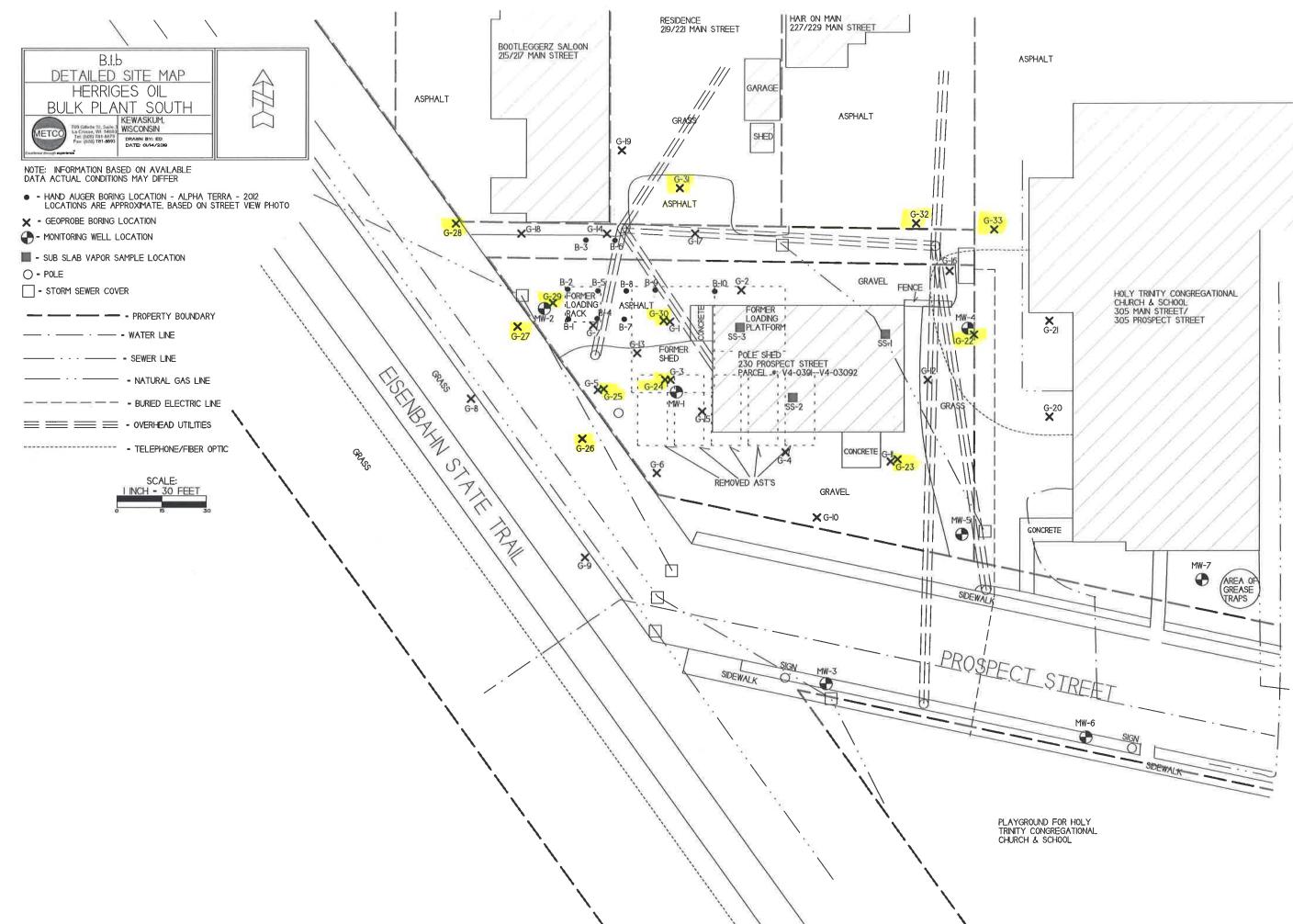
Three of the six borings (G-22, -23, and -29) conducted at 2 feet bgs showed direct contact exceedances for PAH compounds. Soil boring G-22 was conducted at the eastern property boundary near former monitoring well MW-4 with a sample collected at 1.5 feet bgs and did exceed Non-Industrial Direct Contact standards for PAH compounds, however being this area along with G-12, -20, and -21 are covered by a manicured lawn this could be considered an appropriate cap to address the direct contact PAHs. Soil boring G-29 was conducted on the western property boundary near former monitoring well MW-2 with a sample collected at 1.5 feet bgs and did exceed Non-Industrial Direct Contact standards for PAHs. Soil boring G-29 was conducted on the western property boundary near former monitoring well MW-2 with a sample collected at 1.5 feet bgs and did exceed Non-Industrial Direct Contact standards for PAH compounds, however this area is covered with asphalt and is an appropriate cap to address the direct contact PAHs.

Soil boring G-23 conducted to 2 feet bgs exceeded the Industrial Direct Contact standards. The sample adjacent to it (G-11) collected at 3.5 feet bgs also exceeded the Industrial Direct Contact standards. This area is currently covered with approximately 6 inches of gravel which may not be enough to be considered an appropriate cap. If not, this area of direct contact exceedances will likely be required to be addressed by an appropriate cap. An additional 1-2 feet of clean gravel would not be an option due to the building, adjacent concrete pad, and surface drainage. Thus the area would likely need to be addressed by covering with a concrete/asphalt pad or excavation of contaminated material to approximately 3 feet bgs and backfilled with clean soil/gravel.

If the state determines that the site could be re-submitted for closure at this time, we can prepare the updated/revised closure request. However, if additional work is going to be required (most notably would be the area of G-11/G-23) it would be best to address that issue at this time followed by an updated closure request. After your review of this current information, please contact METCO and our client to discuss moving this site toward "closure". If you have any questions please call or email. Thanks,



Jason Powell METCO - Staff Scientist jasonp@metcofs.com / 608.781.8879 709 Gillette Street - Suite 3, La Crosse WI 54603 www.metcofs.com



-																	DI	RECT CONTAC	Т
Sample	Depth	Saturation	Date	PID	Lead	DRO	GRO		Ethyl-		Naph-		1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's			Cumulative
ID	(feet)	U/S			(ppm)	(ppm)	(ppm)	Benzene	benzene	MTBE	thalene	Toluene	thylbenzene	thylbenzene	(Total)	(ppb)	Exeedance	Hazard	Cancer
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		Count	Index	Risk
B-1	8-12	U	06/01/12	47.0	NS	NS	NS	<0.2	<0.2	<0.2	3.87	0.271J	1.4	1	1.281J	NS			
B-2	8-12	U	06/01/12	8.6	NS	NS	NS						NOT SAMPLE)					
B-3	8-12	U	06/01/12	1.5	NS	NS	NS						NOT SAMPLE)					
B-4	8-12	U	06/01/12	683.0	NS	NS	NS	<2	12.6	<2	50.7	4.03	(358)*	169	225	NS			
B-5	8-12	U	06/01/12	44.0	NS	NS	NS						NOT SAMPLE	5					
B-6	8-12	U	06/01/12	40.0	NS	NS	NS						NOT SAMPLEI						
B-7	8-12	U	06/01/12	3.0	NS	NS	NS						NOT SAMPLE)					
B-8	8-12	U	06/01/12	1.6	NS	NS	NS						NOT SAMPLE)					
B-9	8-12	U	06/01/12	2.5	NS	NS	NS						NOT SAMPLEI	0					
B-10	8-12	Ŭ	06/01/12	20.2	NS	NS	NS						NOT SAMPLE)					
Groundwat	er RCL				27			0.0051	1.57	0.027	0.6582	1.1072	1.3	787	3.96				
Non-Indust	rial Direc	t Contact RC	<u>>L</u>		400	54	14	1.6	8.02	63.8	<u>5.52</u>	818	219	182	260	(e:		1.00E+00	1.00E-05
Industrial D	irect Cor	ntact RCL			(800)	-	0.55	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)			1.00E+00	1.00E-05
Soil Saturat	ion Cond	entration (C	-sat)*		×	3		1820*	480*	8870*		818*	219*	182*	260*	() ()			

 Soil Saturation Concentration (C-sat)*

 Bold = Groundwater RCL Exceedance

 Bold & Underline = Non Industrial Direct Contact RCL Exceedance

 (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

 Bold & Asteric * = C-sat Exceedance

 NS = Not Sampled

 NM = Not Measured

 (ppm) = parts per million
 ND = No Detects

 DRO = Diesel Range Organics

 GRO = Gasoline Range Organics

 PID = Photoionization Detector

 PVOC's = Petroleum Volatile Organic Compounds

 VOC's = Volatile Organic Compounds

VOC's = Volatile Organic Compounds Note: Non-Industrial RCLs apply to this site.

		(1(10 #02-01															DIRECT C	CONTACT (PVO	C & PAH)
Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene	Ethyl- benzene	MTBE	Naph- thalene	Toluene	1,2,4-Trime- thylbenzene	1,3,5-Trime- thylbenzene	Xylene (Total)	Other VOC's (ppb)	Exeedance	Hazard	Cumulative Cancer
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		Count	Index	Risk
G-1-1	3.5	U	03/25/19	0.10	210.0	NS	NS	0.075	<0.025	<0.025	0.124	0.084	0.056	0.044	0.143	NS	5	0.7357	4.2E-05
G-1-2	8.0	S	03/25/19	0.10	NS	NS	NS									NS			
G-1-3	12.0	S	03/25/19	0.20								SAMPLE							
G-2-1	3.5	U	03/25/19	0,30	49.2	NS	NS	<0.025	<0.025	<0.025	0.082	<0.025	<0.025	0.0284	0.0294-0.0794	NS	0	0.0017	2.6E-07
G-2-2	6.0	S	03/25/19	1.00	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-3	12.0	S	03/25/19	0.80								SAMPLE							
G-2-4	14.0	S	03/25/19	0.70								SAMPLE							
G-2-5	16.0	S	03/25/19	0.60							NOT	SAMPLE							
G-3-1	3.5	U	03/25/19	275.20	12.8	NS	NS	<1.25	<1.25	<1.25	(58)	1.4	10.7	6.1	6.65	NS	<u> </u>	0.6271	3.9E-05
G-3-2	5.0	S	03/25/19	1157.00	NS	2350	4400	0.51	0.33	<0.05	2.78	<0.032	0.035	<0.032	<0.116	SEE VOC SHEET TCLP LEAD <0.1 TCLP BENZENE <0.05			
G-3-3	10.0	S	03/25/19	1.50	· · · · · · · · ·							SAMPLE			-				
G-3-4	12.0	S	03/25/19	1.30								SAMPLE							
G-3-5	14.0	S	03/25/19	1.20							NOT	SAMPLE	D						
G-4-1	3.5	U	03/25/19	2.20	4.1	NS	NS	<0.025	<0.025	<0.025	0.10	<0.025	0.045	< 0.025	< 0.075	NS	0	0.002	2.8E-07
G-4-2	5.0	U	03/25/19	22.20	NS	NS	NS	<1.25	<1.25	<1.25	45	<1.25	5.1	4.0	4.73	NS			
G-4-3	10.0	S	03/25/19	1.90							NOT	SAMPLE	Ď		· · · · · · · · · · · · · · · · · · ·				
G-4-4	12.0	S	03/25/19	1.00							NOT	SAMPLEI	D						
G-4-5	14.0	S	03/25/19	0.90							NOT	SAMPLE	D						
G-5-1	3.0	U	03/25/19	844.00	316.0	NS	NS	2.17	3.2	<0.25	(26.8)	6.1	8.9	9.6	13.8	NS	8	1.3849	7.7E-05
G-5-2	6.0	S	03/25/19	898.00	NS	NS	NS	0.32	0.92	<0.025	4.5	1.5	0.80	2.07	4.05	NS			
G-5-3	10.0	S	03/25/19	61.00							NOT	SAMPLE	Ď						
G-5-4	12.0	S	03/25/19	4.00	· · · · · · · · · · · · · · · · · · ·						NOT	SAMPLE	D						
G-5-5	14.0	S	03/25/19	1.00							NOT	SAMPLE	D						
G-6-1	3.5	U	03/25/19	4.10	11.9	NS	NS	0.082	0.149	<0.025	0.51	0.28	0.39	1.0	0.761	NS	1	0.0549	9.5E-06
G-6-2	6.0	S	03/25/19	50.40	NS	NS	NS	<0.025	0.111	< 0.025	1.71	<0.025	0.262	0.126	0.385	NS			
G-6-3	10.0	S	03/25/19	2.10		1.66					NOT	SAMPLE	D						
G-6-4	12.0	S	03/25/19	3.50							NOT	SAMPLE	D						
G-6-5	16.0	S	03/25/19	3.60								SAMPLE							
G-7-1	3.5	Ŭ	03/25/19	13.70	6.3	NS	NS	0.075	<0.025	<0.025	0.141	0.061	< 0.025	0.0295	<0.075	NS	0	0.0026	3.3E-07
G-7-2	6.0	S	03/25/19	2.40	NS	NS	NS	< 0.025	0.077	<0.025	0.42	0.035	0.061	0.0296	0.083	NS			
G-7-3	10.0	S	03/25/19	2.30	110	110		0.010	3.011	0.000		SAMPLE							
G-7-4	12.0	S	03/25/19	1.30								SAMPLE							
G-7-5	14.0	s	03/25/19	0.90	NS	NS	NS	<0.025	<0.025	<0.025	0.0277	<0.025	<0.025	<0.025	< 0.075	NS			
Groundwate			00120110	0.00	27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3		3,96	-			
	and the second se	Contact RC	CL.		400			1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
ndustrial D	the second s	and the second state of th			(800)	-		(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
		entration (C	-sat)*		(000)		-	1820*	480*	8870*	1	818*	219*	182*	260*	290		1.002.00	1.002-00
		PCI Execce			-	-		1820	480	667U"	-	010	219	102	200	-			L

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR) S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance Bold & Asteric * = C-sat Exceedance

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 DRO = Diesel Range Organics
 OR

 GRO = Gasoline Range Organics
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 PVOC's = Petroleum Volatile Organic Compounds
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 Note:
 Non-Industrial RCLs apply to this site.

 NM = Not Measured ND = No Detects

in ingea U		KIS #02-67															DIRECT C	CONTACT (PVO	C & PAH)
Sample	Depth	Saturation	Date	PID	Lead	DRO	GRO	1	Ethyl-		Naph-		1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's			Cumulative
ID	(feet)	U/S			(ppm)	(ppm)	(ppm)	Benzene	benzene	MTBE	thalene	Toluene	thylbenzene	thylbenzene	(Total)	(ppb)	Exeedance	Hazard	Cancer
10		0,0			(FF)	(PP)	(, , , , , , , , , , , , , , , , , , ,	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(mag)	,	Count	Index	Risk
G-8-1	3.5	U	03/25/19	4.30	25.9	NS	NS	< 0.025	<0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.025	< 0.075	NS	0	0.0014	2.5E-07
G-8-2	8.0	S	03/25/19	2.70	NS	NS	NS	<0.025	< 0.025	<0.025	<0.025	< 0.025	<0.025	< 0.025	< 0.075	NS			
	10.0	S	03/25/19		NO		NO	1 40.023	<0.020	40.020		SAMPLE		10.020	0.010	110			
G-8-3				8.60								SAMPLE							
G-8-4	12.0	S	03/25/19	0.50	1	1 110	L NO	1 .0.005	-0.005	-0.005				<0.025	<0.075	NC			
G-8-5	14.0	S	03/25/19	1.60	NS	NS	NS	< 0.025	< 0.025	< 0.025	0.045	< 0.025	< 0.025	<0.025		NS	0	0.0050	4.05.07
G-9-1	3.5	U	03/25/19	9.70	24.8	NS	NS	<0.025	0.048	<0.025	0.39	0.070	0.14	0.080	0.192	NS	0	0.0056	4.2E-07
G-9-2	8.0	S	03/25/19	8.20	NS	NS	NS	<0.025	0.0281	<0.025	0.251	0.041	0.090	0.055	0.139	NS			
G-9-3	10.0	S	03/25/19	1.10								T SAMPLE							
G-9-4	12.0	S	03/25/19	2.60							NO	SAMPLE	D						
G-9-5	14.0	S	03/25/19	1.40	NS	NS	NS	<0.025	< 0.025	<0.025	0.053	<0.025	< 0.025	< 0.025	< 0.075	NS			
G-10-1	3.5	U	03/25/19	1.80	86.1	NS	NS	<0.025	<0.025	<0.025	0.128	0.072	0.041	0.045	0.049-0.099	NS	1	0.2407	4.9E-06
G-10-2	5.0	U	03/25/19	1.90	NS	NS	NS	0.030	0.035	0.044	0.114	0.143	0.067	0.066	0.181	NS			
G-10-3	10.0	S	03/25/19	2.80		1						SAMPLE							
G-10-4	12.0	S	03/25/19	1.40			_					SAMPLE							
G-10-4	14.0	S	03/25/19	2.20	NS	NS	NS	< 0.025	<0.025	<0.025	< 0.025	<0.025	<0.025	<0.025	<0.075	NS			
		U	and the second sec	2.20	47.0	NS	NS	<0.025	<0.025	<0.025	11.9	<0.25	<0.25	< 0.25	<0.75	NS	7	3.5089	6.9E-04
G-11-1	3.5		03/25/19				NS	<1.25	<1.25	<1.25	58	<1.25	2.37	1.87	<3.75	NS		0.0000	0.02.04
G-11-2	5.0	U	03/25/19	53.80	NS	NS	1115	\$1.25	\$1.25	\$1.20		SAMPLE		1.0/	-5.15	6M			
G-11-3	10.0	S	03/25/19	5.30															L
G-11-4	12.0	S	03/25/19	0.80		1						SAMPLE		0.007	0.075	NO			
G-11-5	14.0	S	03/25/19	0.80	NS	NS	NS	<0.025	<0.025	<0.025	0.077	<0.025	<0.025	< 0.025	<0.075	NS			
G-12-1	3.5	U	03/25/19	27.50	274.0	NS	NS	<0.25	0.42	<0.25	<u>12.3</u>	0.308	4.2	3.8	2.48	NS	2	0.7894	3.9E-06
G-12-2	5.0	U	03/25/19	21.90	NS	NS	NS	<1.25	<1.25	<1.25	60	<1.25	5.1	5.5	1.56-4.06	NS			
G-12-3	10.0	S	03/25/19	3.00							NO	SAMPLE	D						
G-12-4	12.0	S	03/25/19	2.20							NO	SAMPLE	D						
G-12-5	14.0	S	03/25/19	2.00	NS	NS	NS	< 0.025	<0.025	<0.025	0.051	<0.025	< 0.025	< 0.025	< 0.075	NS			
G-13-1	3.5	Ŭ	03/26/19	34.40	4.68	NS	NS	<0.025	< 0.025	<0.025	<0.025	<0.025	< 0.025	< 0.025	< 0.075	NS	0	0.0029	5.5E-07
G-13-2	5.0	S	03/26/19	74.20	NS	NS	NS	0.34	0.289	<0.25	4.6	0.62	1.05	0.90	1.68	NS			
G-13-3	10.0	S	03/26/19	0.60	110	1 NO		0.01	0.200	- One O		SAMPLE							
G-13-3	12.0	S	03/26/19	0.80								SAMPLE							
				0.80	NS	NS	NS	<0.025	<0.025	<0.025	0.041	<0.025	<0.025	<0.025	<0.075	NS			
G-13-5	14.0	S	03/26/19								termine the second s	0.020	0.112	0.055	0.224	NS	2	0.9333	1.1E-05
G-14-1	3.5	U	03/26/19	1.00	351.0	NS	NS	< 0.025	0.0311	<0.025	0.284						£	0.8555	1.12-03
G-14-2	8.0	S	03/26/19	1.10	NS	NS	NS	<0.025	0.032	<0.025	0.161	0.040	0.063	0.032	0.186	NS			
G-14-3	10.0	S	03/26/19	0.70								SAMPLE							
G-14-4	12.0	S	03/26/19	0.60								SAMPLE					L		l
G-14-5	14.0	S	03/26/19	0.70	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.025	< 0.025	<0.075	NS			
G-15-1	3.5	U	03/26/19	91.10	146.0	NS	NS	<0.025	<0.025	<0.025	0.40	<0.025	0.048	0.035	0.091	NS	0	0.3701	3.3E-07
G-15-2	5.0	S	03/26/19		NS	NS	NS	0.29	<0.25	<0.25	9.2	0.37	1.19	1.28	1.17	NS			
G-15-3	10.0	S	03/26/19	3.60								SAMPLE							
G-15-4	12.0	S	03/26/19	2.00							NO	SAMPLE	D		_				
G-15-5	14.0	S	03/26/19	1.20	NS	NS	NS	<0.025	<0.025	<0.025	< 0.025	<0.025	< 0.025	< 0.025	< 0.075	NS			
MW-1-1	3.5	Ŭ	03/26/19									SAMPLE					0		
MW-1-1	8.0	S	03/26/19	and the local division of the second s								SAMPLE							
the second s	the second se		and some and a second sec					_				SAMPLE							
MW-1-3	10.0	S	03/26/19									SAMPLE							
MW-1-4	12.0	S	03/26/19	6.10	NO			1 40 00C	-0.005	40 00E				<0.025	<0.075	NC			
MW-1-5	14.0	S	03/26/19		NS	NS	NS	<0.025	<0.025	<0.025	0.0267	< 0.025	<0.025	<0.025	< 0.075	NS		4 2072	4.05.04
MW-2-1	3.5	U	03/26/19		261.0	NS	NS	0.0268			0.262	0.034	0.077	0.042	0.054-0.071	NS	5	1.2972	1.3E-04
MW-2-2	5.0	S	03/26/19		NS	NS	NS	<0.025	<0.025	<0.025	0.201	0.034	0.064	0.037	0.104	NS			
MW-2-3	10.0	S	03/26/19	1.60								SAMPLE							
MW-2-4	12.0	S	03/26/19	1.70							NO	SAMPLE	D						
MW-2-5	14.0	S		1.20	NS	NS	NS	<0.025	<0.025	<0.025	0.0273	<0.025	<0.025	< 0.025	< 0.075	NS			
Groundwat					27	- 110	-	0.0051	1.57	0.027	0.6582	1.1072		787	3.96				
		t Contact RO	CL		400			1.6	8.02	63.8	5.52	818	219	182	260			1.00E+00	1.00E-05
ndustrial D					(800)	1	12	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	1		1.00E+00	1.00E-05
		entration (C	cotl*		(000)		-	1820*	480*	8870*		818*	219*	182*	260*	-			
n oatura	uon cone	cinciacion (C	ady			<u> </u>	1175	1020	400	0010		010	V	104	2.00				<i>i</i>

Soll Saturation Concentration (C-sat)" - - -Bold = Groundwater RCL Exceedance Bold & Underline = Non Industrial Direct Contact RCL Exceedance (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance Bold & Asteric * = C-sat Exceedance

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NS = Not Sampled

(ppm) = parts per million

DRO = Diesel Range Organics GRO = Gasoline Range Organics PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds VOC's = Volatile Organic Compounds Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR) S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

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			-111013							1							DIRECT C	CONTACT (PVO	C & PAH)
Sample	Depth	Saturation	Date	PID	Lead	DRO	GRO		Ethyl-		Naph-		1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's			Cumulative
ID	(feet)	U/S			(ppm)	(ppm)	(ppm)	Benzene	benzene	MTBE	thalene	Toluene	thylbenzene	thylbenzene	(Total)	(ppb)	Exeedance	Hazard	Cancer
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		Count	Index	Risk
MW-3-1	3.5	U	03/26/19	2.60	3.69	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0	0.0014	2.7E-07
MW-3-2	5.0	U	03/26/19	2.60	NS	NS	NS	<0.025	<0.025	<0.025	< 0.025	<0.025	< 0.025	< 0.025	< 0.075	NS			
MW-3-3	10.0	S	03/26/19	2.10	· · · · · · · · · · · · · · · · · · ·							SAMPLE							
MW-3-4	12.0	S	03/26/19	2.10	-						NOT	SAMPLE	D						
MW-3-5	14.0	S	03/26/19	2.00	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-4-1	0-4	U	03/26/19	2.80	51.0	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	0.0261-0.0761	NS	3	0.0877	1.8E-05
MW-4-2	4-8	S	03/26/19	2.70	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	<0.075	NS			
MW-4-3	8.0	S	03/26/19	2.00								SAMPLE							
MW-4-4	12.0	S	03/26/19	2.40	i							SAMPLE							
MW-4-5	14.0	S	03/26/19	1.70	NS	NS	NS	<0.025	<0.025	<0.025	0.044	<0.025	<0.025	<0.025	<0.075	NS			
MW-5-1	3.5	U	03/26/19	2.60	5.79	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	< 0.025	< 0.075	NS	0	0.0014	2.5E-07
MW-5-2	8.0	S	03/26/19	2.50	NS	NS	NS	<0.025	<0.025	<0.025	0.071	<0.025	< 0.025	< 0.025	< 0.075	NS			
MW-5-3	10.0	S	03/26/19	1.90								SAMPLE							
MW-5-4	12.0	S	03/26/19	1.80			1					SAMPLE							[
MW-5-5	14.0	S	03/26/19	1.60	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
MW-6-1	3.5	U	12/09/19	0.80								SAMPLE							
MW-6-2	8.0	S	12/09/19	0.60								SAMPLE							
MW-6-3	12.0	S	12/09/19	0.50								SAMPLE	D						
MW-6-4									NO R	ECOVERY									
MW-7-1	3.5	U	12/09/19	0.70								SAMPLE					0		
MW-7-2	8.0	S	12/09/19	0.60								SAMPLE							
MW-7-3	12.0	S	12/09/19	0.30								SAMPLE							I
MW-7-4	14.0	S	12/09/19	0.40					_			SAMPLE							
G-16-1	3.5	U	12/09/19	2.80								SAMPLE					0		
G-17-1	3.5	U	12/09/19	1.20								SAMPLE					0		I
G-18-1	3.5	U	12/09/19	1.20								SAMPLE					0		
G-19-1	3.5	U	12/09/19	1.10				_				SAMPLE					0		
G-20-1	3.5	U	12/09/19	0.20								SAMPLE					0		
G-21-1	3.5	U	12/09/19	0.40								SAMPLE					0		
Groundwate					27	- · · · · ·	- 16	0.0051	1.57	0.027	0.6582	1.1072		787	3.96	(4)			
and the second s	and the state of t	Contact RC	<u>;L</u>		<u>400</u>	100	100	<u>1.6</u>	8.02	<u>63.8</u>	5.52	<u>818</u>	<u>219</u>	182	260	1.2		1.00E+00	1.00E-05
ndustrial D					(800)	(H)		(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)			1.00E+00	1.00E-05
the second s	the second s	entration (C			-	-	-	1820*	480*	8870*		818*	219*	182*	260*	· · · · · · · ·			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance Bold & Asteric * = C-sat Exceedance

NM = Not Measured ND = No Detects

NS = Not Sampled (ppm) = parts per million DRO = Diesel Range Organics GRO = Gasoline Range Organics

PID = Photoionization Detector PVOC's = Petroleum Volatile Organic Compounds VOC's = Volatile Organic Compounds Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR) S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

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																	DIRECT C	CONTACT (PVO	C & PAH)
Sample	Depth	Saturation	Date	PID	Lead	DRO	GRO		Ethyl-		Naph-		1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's			Cumulative
ID	(feet)	U/S			(ppm)	(ppm)	(ppm)	Benzene	benzene	MTBE	thalene	Toluene	thylbenzene	thylbenzene	(Total)	(ppb)	Exeedance	Hazard	Cancer
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		Count	Index	Risk
G-22-1	1.5	U	03/08/21	0.50							NOT	SAMPLE	D				1	0.0389	8.1E-06
G-23-1	1.5	U	03/08/21	0.87							NOT	SAMPLE	D				6	2.772	5.7E-04
G-24-1	1.5	U	03/08/21	65.0	NS	NS	NS	0.061	0.159	< 0.025	0.68	0.111	8.1	2.93	0.92	NS	0	0.0458	1.3E-06
G-25-1	1.5	U	03/08/21	7.80	NS	NS	NS	0.046	0.069	< 0.025	0.097	0.244	0.279	0.136	0.682	NS	0	0.0074	8.7E-07
G-26-1	3.0	U	03/08/21	0.73				· · · · ·		·	NOT	SAMPLE	D	·/ ·/ ·			0	0.0009	2.8E-07
G-27-1	3.0	U	03/08/21	0.63							NOT	SAMPLE	D				0	0.0009	2.8E-07
G-28-1	3.0	U	03/08/21	1.30							NOT	SAMPLE	D				0	0.0009	2.8E-07
G-29-1	1.5	υ	03/08/21	0.78							NOT	SAMPLE	D				1	0.0503	1.1E-05
G-30-1	1.5	U	03/08/21	1.70							NOT	SAMPLE	D				0		
G-31-1	3.0	U	03/08/21	1.30							NOT	SAMPLE	D				0	0.0035	8.0E-07
G-32-1	3.0	U	03/08/21	1.30							NOT	SAMPLE	D				0	0.0009	2.8E-07
G-33-1	3.0	U	03/08/21	1.00							NOT	SAMPLE	D				0	0.0009	2.8E-07
Groundwat	er RCL				27	-	2	0.0051	1.57	0.027	0.6582	1.1072	1.3	787	3.96				
Non-Indust	rial Direc	t Contact RC	CL.		400		¥	1.6	8.02	63.8	5.52	818	219	182	260			1.00E+00	1.00E-05
Industrial D	irect Cor	tact RCL			(800)		к.	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	÷		1.00E+00	1.00E-05
Soil Satura	tion Cond	centration (C	-sat)*		<u> </u>	- 1941 L		1820*	480*	8870*		818*	219*	182*	260*	2			

 Soil Saturation Concentration (C-sat)*

 Bold = Groundwater RCL Exceedance

 Bold & Underline = Non Industrial Direct Contact RCL Exceedance

 (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

 Bold & Asteric * = C-sat Exceedance

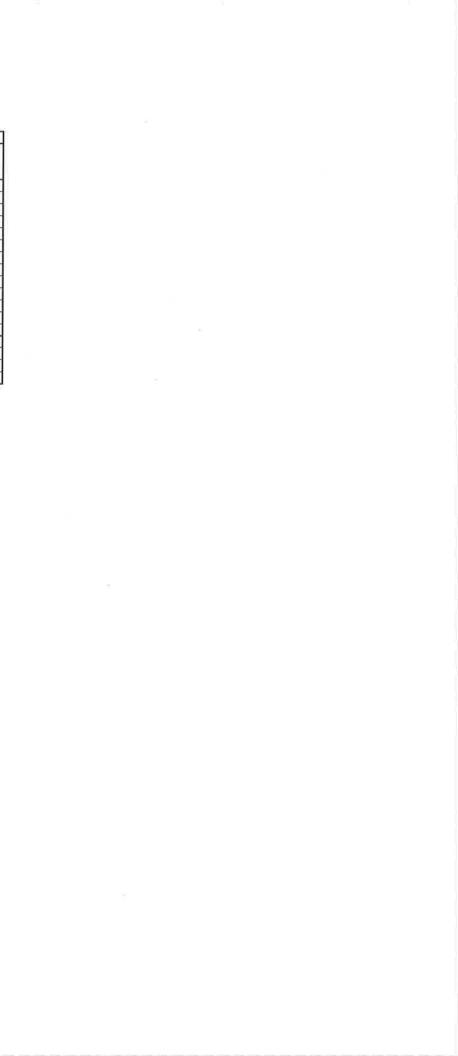
 NS = Not Sampled

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PVOC's = Petroleum Volatile Organic Compounds VOC's = Volatile Organic Compounds Note: Non-Industrial RCLs apply to this site.



A.2 Soil Analytical Results Table (PAH)

Herriges Oil BP S BRRTS #02-67-111819

																						DIRECT	CONTACT (PVC	and the second se
	Depth	Saturation		Acenaph-	Acenaph-		Benzo(a)	Benzo(a)	Benzo(b)	Benzo(g,h,I)	Benzo(k)		Dibenzo(a,h)			Indeno(1,2,3-cd)	1-Methyl-	2-Methyl-	Naph-	Phenan-				Cumulative
Sample	(feet)	U/S	Date	thene	thylene	Anthracene	anthracene	pyrene	fluoranthene	perylene	fluoranthene	Chrysene	anthracene	Fluoranthene	Fluorene	pyrene	naphthalene	naphthalene	thalene	threne	Pyrene	Exeedance	Hazard	Cancer
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	Count	Index	Risk
G-1-1	3.5	0	03/25/19	0.16	0.54	0.91	2.46	(3.60)	5.00	3.50	1.59	3.70	0.239	6.00	0.301	2.61	0.166	0.198	0.172	2.60	5.40	5	0.7357	4.2E-05
G-2-1	3.5	U	03/25/19	<0.0163	0.01	< 0.0043	< 0.016	<0.0124	<0.0109	0.0111	<0.0091	<0.006	<0.0101	0.0057	<0.0086	<0.0082	<0.0086	<0.0147	< 0.0153	<0.0071	<0.0067	0	0.0017	2.6E-07
G-3-1	3.5	U	03/25/19	0.44	0.65	0.73	<u>1.71</u>	(2.22)	3.30	2.37	1.03	2.43	0.13	3.60	1.28	<u>1.57</u>	<u>19.6</u>	24	12.6	2.56	3.50	7	0.6271	3.9E-05
G-4-1	3.5	U U	03/25/19	< 0.0163	0.0124	0.0049	<0.016	< 0.0124	0.0154	0.0106	<0.0091	0.0102	<0.0101	0.0173	<0.0086	<0.0082	0.164	0.038	0.059	0.0164	0.0143	0	0.002	2.8E-07
G-5-1	3.0	U	03/25/19	1.87	1.94	1.69	2.83	(5.00)	7.40	6.40	1.98	4.00	1.33	6.70	3.06	4.60	33.0	13.2	8.20	4.30	7.40	8	1.3849	7.7E-05
G-6-1	3.5	U	03/25/19	0.0203	0.06	0.262	0.68	0.79	1.10	0.66	0.35	0.84	0.042	1,62	0.044	0.53	0.071	0.097	0.079	0.73	1.32	1	0.0549	9.5E-06
G-7-1	3.5	U	03/25/19	<0.0163	<0.0086	< 0.0043	0.0195	0.0134	0.0209	0.0122	<0.0091	0.0172	<0.0101	0.0214	<0.0086	<0.0082	0.0278	0.0232	< 0.0153		0.0182	0	0.0026	3.3E-07
G-8-1	3.5	U	03/25/19	< 0.0163	<0.0086	<0.0043	<0.016	<0.0124	<0.0109	<0.0084	<0.0091	< 0.006	<0.0101	<0.0054	<0.0086	<0.0082	<0.0086	<0.0147	< 0.0153		<0.0067	0	0.0014	2.5E-07
G-9-1	3.5	U	03/25/19	< 0.0163	0.036	0.037	0.0283	0.0167	0.039	0.0229	0.01	0.0294	<0.0101	0.036	0.0089	0.0166	0.274	0.293	0.102	0.148	0.037	0	0.0056	4.2E-07
G-10-1	3.5	U	03/25/19	0.037	0.07	0.122	0.39	0.41	0.61	0.306	0.192	0.45	0.0255	0.70	0.038	0.235	0.094	0.109	0.076	0.53	0.67	1	0.2407	4.9E-06
G-11-1	3.5	U	03/25/19	14.1	2.35	59.0	(66.0)	(58.0)	(78.0)	29.5	27.0	65.0	(2.89)	166	26.0	(28.1)	6.00	4.10	4.60	158	130	7	3.5089	6.9E-04
G-12-1	3.5	U	03/25/19	< 0.0163	0.068	0.056	0.101	0.116	0.169	0.129	0.056	0.102	<0.0101	0.165	0.032	0.091	0.071	0.136	0.0192	0.135	0.141	2	0.7894	3.9E-06
G-13-1	3.5	U	03/26/19	< 0.0163	0.0293	0.0166	0.04	0.038	0.054	0.044	0.018	0.036	< 0.0101	0.052	0.0098	0.0253	<0.0086	<0.0147	< 0.0153	-	0.046	0	0.0029	5.5E-07
G-14-1	3.5	U	03/26/19	< 0.0163	0.32	0.202	0.61	0.92	1.38	0.86	0.42	0.79	0.052	0.95	0.045	0.61	0.113	0.142	0.078	0.40	0.91	2	0.9333	1.1E-05
G-15-1	3.5	U	03/26/19	< 0.0163	0.0171	0.06	< 0.016	< 0.0124	< 0.0109	0.022	<0.0091	< 0.006	< 0.0101	0.0062	0.0209	0.0088	0.154	0.36	0.141	0.05	0.0107	0	0.3701	3.3E-07
MW-2-1	3.5	0	03/26/19	0.97	0.273	6.70	11.9	(11.0)	15.5	5.90	5.10	11.8	0.59	25.7	2.12	5.60	0.172	0.173	0.097	15.8	20.6	5	1.2972	1.3E-07
MW-3-1	3.5	<u> </u>	03/26/19	< 0.0163	<0.0086	0.0079	0.0192	0.0134	0.0201	<0.0084	<0.0091	0.0146	< 0.0101	0.0247	<0.0086	<0.0082	<0.0086	<0.00147	< 0.0153	0.0177	0.0205	0	`'0.0014	2.7E-07
MW-4-1	0-4	U	03/26/19	0.34	0.039	0.94	1.52	1.47	2.42	0.90	0.65	1.85	0.061	4.70	0.45	0.85	0.045	0.053	0.042	4.40	3.50	3	0.0877	1.8E-05
MW-5-1	3.5	U	03/26/19	< 0.0163	<0.0086	< 0.0043	< 0.016	< 0.0124	< 0.0109	< 0.0084	< 0.0091	0.0064	< 0.0101	0.0102	<0.0086	< 0.0082	< 0.0086	< 0.0147	< 0.0153	_	0.0093	0	0.0014	2.5E-07
G-16-1	3.5	U	12/09/19	< 0.0163	0.21	0.094	0.36	0.62	0.74	0.64	0.262	0.42	0.109	0.51	0.0151	0.48	0.0098	< 0.0147	0.022	0.185	0.50	1	0.0355	7.7E-06
G-17-1	3.5	U	12/09/19	< 0.0163	0.067	0.0311	0.088	0.125	0.183	0.139	0.058	0.116	0.0239	0.128	0.0095	0.107	0.0086	< 0.0147	< 0.0153		0.122		0.0073	1.6E-06
G-18-1	3.5	U	12/09/19	< 0.0163	0.0104	0.042	0.109	0.116	0.159	0.084	0.056	0.123	0.0134	0.293	0.0187	0.077	< 0.0086	< 0.0147	< 0.0153		0.243	1	0.0069	1.4E-06
G-19-1	3.5	U	12/09/19	<0.0163	0.0228	0.0125	0.04	0.048	0.074	0.054	0.0203	0.046	< 0.0101	0.058	<0.0086	0.042	< 0.0086	< 0.0147	< 0.0153		0.055	0	0.0029	6.5E-07
G-20-1	3.5	<u>U</u>	12/09/19	0.0294	<0.0086	0.103	0.303	0.298	0.45	0.237	0.133	0.35	0.043	0.82	0.035	0.21	< 0.0086	< 0.0147	< 0.0153		0.64	1	0.0176	3.8E-06
G-21-1	3.5	U	12/09/19	< 0.0163	0.0198	0.058	0.231	0.267	0.38	0.211	0.127	0.267	0.039	0.52	0.0132	0.185	<0.0086	<0.0147	<0.0153	0.221	0.44	1	0.0156	3.4E-06
Groundwate	er RCL	نــــــــــــــــــــــــــــــــــــ				197		0.47	0.4781			0.1442		88.8	14.8	i ne s	: .		0.6582		54.5			
lon-Indust	rial Direct C	ontact RCL		3590	2444	17900	1.14	0.115	1.15		11.5	115	0.115	2390	2390	1.15	17.6	239	5.52		1790		1.00E+00	1.00E-05
ndustrial D	irect Contac	ct RCL		(45200)		(100000)	(20.8)	(2.11)	(21.1)		(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)		(22600)			
oil Satural	tion Concen	tration (C-sat	t)*		् रम स	2000-1					***		inter 2			19792	5 777 0				inter-			
d = Group	indwater RC	CL Exceedance	C.0									-												

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Bold = Groundwater RCL Exceedance Bold & Underline = Non Industrial Direct Contact RCL Exceedance (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance Bold &Asteric * = C-sat Exceedance NM = Not Measured ND = No Detects

Bold &Asteric * = C-sat Exceedance NS = Not Sampled (ppm) = parts per million PAH = Polynuclear Aromatic Hydrocarbons PID = Photoionization Detector VOC's = Volatile Organic Compounds

A.2 Soil Analytical Results Table

(PAH) Herriges Oil BP S BRRTS #02-67-111819

noningeo o		13 #02-07-11																				DIRECT	CONTACT (PVC	C & PAH)
	Depth	Saturation		Acenaph-	Acenaph-		Benzo(a)	Benzo(a)	Benzo(b)	Benzo(g,h,l)	Benzo(k)		Dibenzo(a,h)			Indeno(1,2,3-cd)	1-Methyl-	2-Methyl-	Naph-	Phenan-				Cumulative
Sample	(feet)	U/S	Date	thene	thylene	Anthracene	anthracene	pyrene	fluoranthene	perylene	fluoranthene	Chrysene	anthracene	Fluoranthene	Fluorene	pyrene	naphthalene	naphthalene	thalene	threne	Pyrene	Exeedance	Hazard	Cancer
				(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	Count	Index	Risk
G-22-1	1.5	U	03/08/21	0.064	0.034	0.306	0.76	0.66	0.88	0.294	0.283	0.74	0.067	1,87	0.069	0.37	<0.0101	<0.0138	<0.0096	0.99	1.47	1	0.0389	8.1E-06
G-23-1	1.5	U	03/08/21	8.90	2.45	36.0	(50.0)	(47.0)	(53.0)	26.3	19.6	45.0	(5.50)	114	13.9	(29.5)	2.22	1.39	2.62	88.0	94.0	6	2.772	5.7E-04
G-24-1	1.5	U	03/08/21	0.44	0.263	0.269	0.059	0.064	0.085	0.046	0.0258	0.066	<0.0142	0.128	0.64	0.051	4.70	1.09	0.68	0.99	0.199	0	0.0458	1.3E-06
G-25-1	1.5	U	03/08/21	< 0.0132	0.044	0.037	0.0289	0.062	0.074	0.065	0.0179	0.0314	<0.0142	0.033	0.0135	0.057	0.126	0.192	0.097	0.079	0.07	0	0.0074	8.7E-07
G-26-1	3.0	U	03/08/21	< 0.0132	0.0165	< 0.0073	< 0.0158	< 0.0142	< 0.0099	<0.0118	<0.0091	<0.0124	<0.0142	<0.0091	< 0.0094	<0.0126	< 0.0101	<0.0138	<0.0096	0.008	< 0.0091	0	0.0009	2.8E-07
G-27-1	3.0	U	03/08/21	< 0.0132	0.0124	< 0.0073	< 0.0158	< 0.0142	< 0.0099	< 0.0118	<0.0091	< 0.0124	<0.0142	<0.0091	< 0.0094	<0.0126	<0.0101	< 0.0138	<0.0096	<0.0077	<0.0091	0	0.0009	2.8E-07
G-28-1	3.0	U	03/08/21	< 0.0132	0.0116	< 0.0073	< 0.0158	< 0.0142	<0.0099	<0.0118	<0.0091	<0.0124	< 0.0142	0.0115	< 0.0094	< 0.0126	< 0.0101	<0.0138	<0.0096	0.0103	0.0111	0	0.0009	2.8E-07
G-29-1	1.5	U	03/08/21	0.0145	0.052	0.155	0.80	0.87	1.14	0.41	0.38	0.81	0.097	1.39	0.0198	0.51	0.0221	0.0198	0.0155	0.28	1.19	1	0.0503	1.1E-05
G-30-1	1.5	U	03/08/21	< 0.0132	< 0.0092	< 0.0073	< 0.0158	< 0.0142	<0.0099	<0.0118	< 0.0091	<0.0124	< 0.0142	< 0.0091	< 0.0094	<0.0126	<0.0101	<0.0138	<0.0096	<0.0077	< 0.0091	0		
G-31-1	3.0	U	03/08/21	< 0.0132	0.0237	0.0148	0.051	0.059	0.087	0.036	0.0266	0.051	< 0.0142	0.075	< 0.0094	0.043	< 0.0101	<0.0138	<0.0096	0.0249	0.07	0	0.0035	8.0E-07
G-32-1	3.0	U	03/08/21	< 0.0132	< 0.0092	< 0.0073	< 0.0158	< 0.0142	< 0.0099	<0.0118	< 0.0091	<0.0124	< 0.0142	0.0095	< 0.0094	< 0.0126	< 0.0101	< 0.0138	<0.0096	<0.0077	0.0109	0	0.0009	2.8E-07
G-33-1	3.0	U	03/08/21	< 0.0132	<0.0092	<0.0073	<0.0158	<0.0142	<0.0099	<0.0118	<0.0091	<0.0124	<0.0142	0.0159	<0.0094	<0.0126	<0.0101	<0.0138	<0.0096	0.011	0.0129	0	0.0009	2.8E-07
Groundwat	er RCL			***	: einie :	197		0.47	0.4781		***	0.1442		88.8	14.8			्रत्तक	0.6582		54.5			
Non-Indust	rial Direct C	Contact RCL		3590		17900	1.14	0.115	1.15	***	11.5	115	0.115	2390	2390	1.15	17.6	239	5.52	888	1790		1.00E+00	1.00E-05
ndustrial I	Direct Conta	ct RCL		(45200)		(100000)	(20.8)	(2.11)	(21.1)		(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	non	(22600)		· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·
Soil Satura	tion Concer	ntration (C-sal	t)*					-++-			3 00 ().		Xee	+++		HTT:		(191		575				
ald - Cro	undurator D	CI Excoodan	~~	-											· · · · · ·		N				2 N			

 Soil Saturation Concentration (C-sat)*
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 Bold = Groundwater RCL Exceedance
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 Bold & Underline = Non Industrial Direct Contact RCL Exceedance
 (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

 Bold & Asteric * = C-sat Exceedance
 NM = Not Measured

 NS = Not Sampled
 NM = Not Measured

 (ppm) = parts per million
 ND = No Detects

 PAH = Polynuclear Aromatic Hydrocarbons
 PID = Photoionization Detector

 VOC's = Volatile Organic Compounds
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NM = Not Measured ND = No Detects

																	D	IRECT CONTAC	Γ
Sample		Saturation	Date	PID	Lead	DRO	GRO		Ethyl-		Naph-		1,2,4-Trime-	1,3,5-Trime-	Xylene	Other VOC's			Cumulativ
ID	(feet)	U/S			(ppm)	(ppm)	(ppm)	Benzene		MTBE	thalene	Toluene	,		(Total)	(ppb)	Exeedance	Hazard	Cancer
								(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)		Count	Index	Risk
B-1	8-12	S	06/01/12	47.0	NS	NS	NS	<0.2	<0.2	<0.2	3.87	0.271J	1.4	1	1.281J	NS			
B-4	8-12	S	06/01/12	683.0	NS	NS	NS	<2	12.6	<2	50.7	4.03	358*	169	225	NS			
G-1-1	3.5	U	03/25/19	0.10	210.0	NS	NS	0.075	<0.025	<0.025	0.124	0.084	0.056	0.044	0.143	NS	5	0.7357	4.2E-05
G-2-1	3.5	U	03/25/19	0.30	49.2	NS	NS	<0.025	<0.025	<0.025	0.082	<0.025	<0.025	0.0284	0.0294-0.0794	NS	0	0.0017	2.6E-07
G-3-1	3.5	U	03/25/19	275.20	12.8	NS	NS	<1.25	<1.25	<1.25	<u>(58)</u>	1.4	10.7	6.1	6.65	NS	7	0.6271	3.9E-05
G-3-2	5.0	S	03/25/19	1157.00	NS	2350	4400	0.51	0.33	<0.05	2.78	<0.032	0.035	<0.032	<0.116	SEE VOC SHEET TCLP LEAD <0.1 TCLP BENZENE <0.05			
G-4-2	5.0	U	03/25/19	22.20	NS	NS	NS	<1.25	<1.25	<1.25	45	<1.25	5.1	4.0	4.73	NS			
G-5-1	3.0	U	03/25/19	844.00	316.0	NS	NS	2.17	3.2	<0.25	(26.8)	6.1	8.9	9.6	13.8	NS	8	1.3849	7.7E-05
G-5-2	6.0	S	03/25/19	898.00	NS	NS	NS	0.32	0.92	<0.025	4.5	1.5	0.80	2.07	4.05	NS			
G-6-1	3.5	U	03/25/19	4.10	11.9	NS	NS	0.082	0.149	< 0.025	0.51	0.28	0.39	1.0	0.761	NS	1	0.0549	9.5E-06
G-6-2	6.0	S	03/25/19	50.40	NS	NS	NS	< 0.025	0.111	< 0.025	1.71	<0.025	0.262	0.126	0.385	NS	÷	0.0010	0.02.00
G-7-1	3.5	Ŭ	03/25/19	13.70	6.3	NS	NS	0.075	<0.025	< 0.025	0.141	0.061	< 0.025	0.0295	< 0.075	NS	0	0.0026	3.3E-07
G-10-1	3.5	U	03/25/19	1.80	86.1	NS	NS	<0.025	<0.025	<0.025	0.128	0.072	0.041	0.045	0.049-0.099	NS	1	0.2407	4.9E-06
G-10-2	5.0	U	03/25/19	1.90	NS	NS	NS	0.030	0.035	0.044	0.114	0.143	0.067	0.066	0.181	NS			
G-11-1	3.5	U	03/25/19	2.20	47.0	NS	NS	<0.25	<0.25	<0.25	11.9	<0.25	<0.25	<0.25	< 0.75	NS	7	3.5089	6.9E-04
G-11-2	5.0	U	03/25/19	53.80	NS	NS	NS	<1.25	<1.25	<1.25	58	<1.25	2.37	1.87	<3.75	NS			-
G-12-1	3.5	U	03/25/19	27.50	274.0	NS	NS	<0.25	0.42	<0.25	12.3	0.308	4.2	3.8	2.48	NS	2	0.7894	3.9E-06
G-12-2	5.0	U	03/25/19	21.90	NS	NS	NS	<1.25	<1.25	<1.25	60	<1.25	5.1	5.5	1.56-4.06	NS			
G-13-2	5.0	S	03/26/19	74.20	NS	NS	NS	0.34	0.289	<0.25	4.6	0.62	1.05	0.90	1.68	NS			T
G-14-1	3.5	U	03/26/19	1.00	351.0	NS	NS	<0.025	0.0311	<0.025	0.284	- 0.080	0.112	0.055	0.224	NS	2	0.9333	1.1E-05
G-15-1	3.5	U	03/26/19	91.10	146.0	NS	NS	<0.025	<0.025	<0.025	0.40	<0.025	0.048	0.035	0.091	NS	0	0.3701	3.3E-07
G-15-2	5.0	S	03/26/19	342.90	NS	NS	NS	0.29	<0.25	<0.25	9.2	0.37	1.19	1.28	1.17	NS			
MW-2-1	3.5	U	03/26/19	1.90	261.0	NS	NS	0.0268	<0.025	<0.025	0.262	0.034	0.077	0.042	0.054-0.071	NS	5	1.2972	1.3E-04
MW-4-1	0-4	U	03/26/19	2.80	51.0	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.0261-0.0761	NS	3	0.0877	1.8E-05
G-24-1	1.5	U	03/08/21	65.0	NS	NS	NS	0.061	0.159	<0.025	0.68	0.111	8.1	2.93	0.92	NS	0	0.0458	1.3E-06
G-25-1	1.5	U	03/08/21	7.80	NS	NS	NS	0.046	0.069	<0.025	0.097	0.244	0.279	0.136	0.682	NS	0	0.0074	8.7E-07
roundwat	er RCL				27	æ2	-	0.0051	1.57	0.027	0.6582	1.1072	1.3	787	3.96				
on-Indust	rial Dire	ect Contact	RCL		400	÷.		1.6	8.02	<u>63.8</u>	5.52	<u>818</u>	219	182	260			1.00E+00	1.00E-0
dustrial D	irect C	ontact RCL			(800)	-	:	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
oil Satura	tion Co	ncentration	(C-sat)*		-	-		1820*	480*	8870*	-	818*	219*	182*	260*	-			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

NM = Not Measured

ND = No Detects

Bold & Asteric * = C-sat Exceedance

NS = Not Sampled

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

A.3 Residual Soil Analytical Results Table (PAH) Herriges Oil BP S BRRTS #02-67-111819

	Death																					DIRECT C	ONTACT (P	VOC & PAH)
Comple	Depth	Saturation		Acenaph-	Acenaph-		N. 9	Benzo(a)	Benzo(b)	Benzo(g,h,l)	Benzo(k)		Dibenzo(a,h)			Indeno(1,2,3-cd)	1-Methyl-	2-Methyl-	Naph-	Phenan-				Cumulative
Sample	(feet)	U/S	Date	thene	thylene	Anthracene	121-12-22	pyrene	fluoranthene	perylene	fluoranthene		anthracene	Fluoranthene	Fluorene	pyrene	naphthalene	naphthalene	thalene	threne	Pyrene	Exeedance	Hazard	Cancer
0.1.1	0.5		00/05/10	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	Count	Index	Risk
G-1-1	3.5	U	03/25/19	0.16	0.54	0.91	2.46	(3.60)	<u>5.00</u>	3.50	1.59	3.70	0.239	6.00	0.301	2.61	0.166	0.198	0.172	2.60	5.40	5	0.7357	4.2E-05
G-3-1	3.5	U	03/25/19	0.44	0.65	0.73	<u>1.71</u>	(2.22)	<u>3.30</u>	2.37	1.03	2.43	0.13	3.60	1.28	1.57	19.6	24	12.6	2.56	3.50	7	0.6271	3.9E-05
G-5-1	3.0	U	03/25/19	1.87	1.94	1.69	2.83	(5.00)	7.40	6.40	1.98	4.00	1.33	6.70	3.06	4.60	33.0	13.2	8.20	4.30	7.40	8	1.3849	7.7E-05
G-6-1	3.5	U	03/25/19	0.0203	0.06	0.262	0.68	0.79	1.10	0.66	0.35	0.84	0.042	1.62	0.044	0.53	0.071	0.097	0.079	0.73	1.32	1	0.0549	9.5E-06
G-10-1	3.5	U	03/25/19	0.037	0.07	0.122	0.39	0.41	0.61	0.306	0.192	0.45	0.0255	0.70	0.038	0.235	0.094	0.109	0.076	0.53	0.67	1	0.2407	4.9E-06
G-11-1	3.5	U	03/25/19	14.1	2.35	59.0	(66.0)	(58.0)	(78.0)	29.5	27.0	65.0	(2.89)	166	26.0	(28.1)	6.00	4.10	4.60	158	130	7	3.5089	6.9E-04
G-12-1	3.5	U	03/25/19	< 0.0163	0.068	0.056	0.101	0.116	0.169	0.129	0.056	0.102	< 0.0101	0.165	0.032	0.091	0.071	0.136	0.0192	0.135	0.141	2	0.7894	3.9E-06
G-14-1	3.5	U	03/26/19	< 0.0163	0.32	0.202	0.61	0.92	1.38	0.86	0.42	0.79	0.052	0.95	0.045	0.61	0.113	0.142	0.078	0.40	0.91	2	0.9333	1.1E-05
MW-2-1	3.5	U	03/26/19	0.97	0.273	6.70	11.9	(11.0)	15.5	5.90	5.10	11.8	0.59	25.7	2.12	5.60	0.172	0.173	0.097	15.8	20.6	5	1.2972	1.3E-07
MW-4-1	0-4	U	03/26/19	0.34	0.039	0.94	1.52	1.47	2.42	0.90	0.65	1.85	0.061	4.70	0.45	0.85	0.045	0.053	0.042	4.40	3.50	3	0.0877	1.8E-05
G-16-1	3.5	U	12/09/19	< 0.0163	0.21	0.094	0.36	0.62	0.74	0.64	0.262	0.42	0.109	0.51	0.0151	0.48	0.0098	< 0.0147	0.022	0.185	0.50	<u> </u>	0.0355	7.7E-06
G-17-1	3.5	U	12/09/19	< 0.0163	0.067	0.0311	0.088	0.125	0.183	0.139	0.058	0.116	0.0239	0.128	0.0095	0.107	0.0086	< 0.0147	< 0.0153	0.063	0.122	4	0.0073	1.6E-06
G-18-1	3.5	U	12/09/19	< 0.0163	0.0104	0.042	0.109	0.116	0.159	0.084	0.056	0.123	0.0134	0.293	0.0187	0.077	< 0.0086	< 0.0147	< 0.0153	0.003	0.122	4	0.0073	1.4E-06
G-20-1	3.5	U	12/09/19	0.0294	<0.0086	0.103	0.303	0.298	0.45	0.237	0.133	0.35	0.043	0.82	0.035	0.21	<0.0086	< 0.0147	< 0.0153	0.227	0.243	1	0.0009	3.8E-06
G-21-1	3.5	U	12/09/19	< 0.0163	0.0198	0.058	0.231	0.267	0.38	0.211	0.127	0.267	0.039	0.52	0.0132	0.185	< 0.0086	< 0.0147	< 0.0153	0.221	0.04			
G-22-1	1.5	U	03/08/21	0.064	0.034	0.306	0.76	0.66	0.88	0.294	0.283	0.74	0.067	1.87	0.069	0.37	<0.0000	< 0.0147	< 0.0096	0.221	1.47	1	0.0156	3.4E-06
G-23-1	1.5	U	03/08/21	8.90	2.45	36.0	(50.0)	(47.0)	(53.0)	26.3	19.6	45.0	(5.50)	114	13.9	(29.5)	2.22	1.39				1	0.0389	8.1E-06
G-29-1	1.5	Ū	03/08/21	0.0145	0.052	0.155	0.80	0.87	1.14	0.41	0.38	0.81	0.097	1.39	0.0198	0.51	0.0221		2.62	88.0	94.0	b	2.772	5.7E-04
					0.001	0.100	0.00	0.07		0.41	0.00	0.01	0.037	1.55	0.0190	0.51	0.0221	0.0198	0.0155	0.28	1.19	1	0.0503	1.1E-05
Groundwa	ater RCL					197		0.47	0.4781	***		0.1442		88.8	14.8			1202	0.6582		54.5			<u>├───</u>
Non-Indu	strial Dire	ct Contact	RCL	3590		17900	1.14	0.115	1.15		11.5	115	0.115	2390	2390	1.15	17.6	239	5.52		1700		4.005.00	1.005.05
Industrial	Direct Co	ontact RCL		(45200)		(100000)	(20.8)	(2.11)	(21.1)		(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)		(22600)		1.00E+00	1.00E-05
Soil Satur	ation Cor	centration	(C-sat)*									(2110)	(2.11)	(30100)	(30100)	(21.1)	(12.1)	(3010)	(24.1)		(22600)			<u>├</u> /
Bold = Gr	oundwate		andanco																					//

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance (Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold &Asteric * = C-sat Exceedance

NS ≈ Not Sampled

NM = Not Measured

ND = No Detects

(ppm) = parts per million PAH = Polynuclear Aromatic Hydrocarbons PID = Photoionization Detector VOC's = Volatile Organic Compounds

BRRTS#:	# of Soil-Concentration Entries: 18		Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-22-1 1.5			1	0.0389	8.1E-06
	Bottom-Line: No	DI This NON-INDUSTRIAL site samp contaminant levels or the constru-			

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca		0.0096	1	0.0001	1.7E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.66	E	0.0371	5.7E-06
Acenaphthene	83-32-9	3,590	-	3,590	nc	Ĩ	0.064		0.	
Acenaphthylene	208-96-8		•	- size mini-	in the second	1	0.034	100000	1	N
Anthracene	120-12-7	17,900		17,900.	nc		0.306		0.	
Benz[a]anthracene	58-55-3		1,14	1.14	ca		0.76			8.7E-07
Benzo(b)fluoranthene	205-99-2		1.15	1.15	CB		0.68			7.76-07
Benzolg.h.liperylene	191-24-2					1	0.294			
Benzojkjiluoranthene	207-08-9		11.5	11.5	ca	1	0.283	300 C		2.5E-08
Chrysene	218-01-9		115.	115.	ca	1	0.74		100 C	6.4E-09
Dibenz[a,h]anthracene	53-70-3		0.115	0.115	ca		0.067			5.8E-07
Fluoranthene	205-44-0			2,390.	nc		1.87		0.0008	
Fluorene	86-73-7			2,390.	nc		0.069		0.	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca		0.37		and the second	3.2E-07
Methylnaphthalene, 1-	90-12-0		17.6	17.6	ca		0.0101	1000	0	5.7E-10
Methylnaphthalene, 2-	91-57-6			239.	nc	1	0.0138		0.0001	
Phenanthrene	85-01-8		£.			1	0,99			
Pyrene	129-00-0		-	1,790.	nc		1.47	1.	0.0008	200000000
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BRRTS#	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-23-1 1.5'		6	2.772	5.7E-04
		NON-INDUSTRIAL site sampling location minant levels or the construction of a cap pathway.		

Date of Entry: 3/29/2021. List below only has contaminants with data. Date of Worksheet Used: 11/20/2018.

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthaiene	91-20-3	178	5.52	5.52	ca		2.62		0.0147	4.7E-07
Benzo(a)pyrene	50-32-8	17.8	0.115	0.115	CS		47.	E	2,6404	4.1E-04
Acenaphthene	83-32-9			3,590.	nc		8.9		0.0025	in the Restart of the
Acenaphthylene	208-96-8						2.45			100 100 100 100
Anthracene	120-12-7		· · · · ·	17,900.	nc		36.	1.00	0.002	
Benzjajanthracene	56-55-3		1.14	1.14	ca		50.	モ		4.4E-05
Benzo[b]fluoranthene	205-99-2		1.15	1.15	CB		53.	E		4.6E-05
Senzo[g.h.i]perylene	191-24-2				/37/		26.3			
Benzo(k)fluoranthene	207-08-9		11.6	11.5	ca		19.6	E	V 1	1.7E-06
Chrysene	218-01-9		115.	115.	CB		45.			3.9E-07
Dibenz[a,h]anthracene	53-70-3		0,115	0.115	CB		5.5	E	1	4.8E-05
Fluoranthene	205-44-0			2.390.	ng		114.		0:0477	1
Fluorene	86-73-7		-	2.390	nc	_	13.9		0.0058	
Indeno[1,2,3-cd]pyrene	193-39-5		1,15	1.15	ca	-	29.5	E	ALCONTR.	2.6E-05
Methylnaphthalene, 1-	90-12-0		17.6	17.6	ca		2.22		0.0005	1.3E-07
Methylnaphthalene, 2-	91-57-6			239	nc		1.39		0.0058	
Phenanthrene	85-01-8			200	119	1	88.			
Pyrene	129-00-0			1,790.	nc		94.		0.0525	
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BRRTS#		# of Soil-Concentration Entries:	25		Number of Individual Exceedance	{Cumulative} Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-2	4-1 1.5				0	0.0458	1.3E-06
299900 1.1 peak		Bottom-Lin	e:	Yes, levels are	below direct-c	ontact concern.	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basia	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedancel	Hazard Quotiant (HQ) from Data	Cancer Risk (CR) from Date
Benzene	71-43-2	108	1.6	1.6	ca		0.061		0.0006	
Ethylbenzene	100-41-4	4,080	8.02	8.02	ca		0.159		0.	2.0E-08
Toluene	108-88-3	5,240,	1+	818.	Csat		0,111		0.	
Xylenes	1330-20-7	818.	18	260.	Csat		0.92	- Parter	0.0011	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100.	63.8	63.8	ca		0.025	1 1 Car 1	0.	3.9E-10
Trimethylbenzene, 1,2,4-	95-63-6	373.		219.	Csat		8.1		0.0217	
Trimethylbenzene, 1,3,5-	108-67-8	339.		182.	Csat	1	2,93	A	0.0086	
Naphthalene	91-20-3	178.	5.52	5.52	ca	1	0.68		0.0038	
Benzolalpyrene	50-32-8	17.8	0.115	0.115	ca		0,064		0.0036	5.6E-07
Acenaphthene	83-32-9	3,590.	•	3,590.	nc:		0.44		0.0001	
Acenaphthylene	208-96-8	-					0.263		No. State of the	
Anthracene	120-12-7	17,900.		17,900.	nc		0.269		0.	
Benzlalanthracene	56-55-3		1.14	1.14	ca		0.059		I set of the set	5.2E-08
Benzo[b]fluoranthene	205-99-2		1.15	1.15	CB		0.085			7.4E-08
Benzolg, h. ilperviene	191-24-2	2	•			1	0.046		1	
Benzo[k]fluoranthene	207-08-9	*	11.5	11.5	CB	1	0.0258			2.2E-09
Chrysene	218-01-9	-	115.	115.	ca	1	0.066		the state of the	5.7E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca	10	0.0142		10.00	1.2E-07
Fluoranthene	206-44-0	2,390		2,390.	nc	10	0.128		0.0001	
Flugrene	86-73-7		1	2,390.	nc		0.64		0.0003	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca		0.051			4.4E-08
Methylnaphthalene, 1-	90-12-0		17.6	17.6	63	1	4.7		0.0011	2.7E-07
Methylnaphthalene, 2-	91-57-8	239	a	239.	nc		1.09		0.0046	
Phenaothrene	85-01-8	*					0.99		0000-90	1 2 A.A. 27 A.A. 27
Pyrene	129-00-0		2	1,790.	nc		0.199		0.0001	
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BRRTS #	# of Soil-Concentration Entries: 25	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-25-1 1.5		0	0.0074	8 7E-07
	Bottom-Line:	Yes, levels are below direct-c	ontact concern.	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Nat-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzone	71-43-2	106.	1.6	1.6	ca		0.045		0.0004	2.9E-08
Ethylbenzene	100-41-4	4,080.	8.02	8.02	C8	1	0.069	100 C 200	0.	8.6E-09
Toluene	108-88-3	5,240	÷	818.	Csat		0.244		0.	
Xylenes	1330-20-7	818		260.	Csat		0.682		0.0008	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100	63.8	63.8	Ca		0.025	100 Aug 100	0.	3.9E-10
Trimethylbenzene, 1.2.4-	95-63-6	373.		219	Csat	1	0.279	-10110-0	0.0007	
Trimethylbenzene, 1,3,5-	108-67-8	339.	-	182.	Csat	1	0.136	-30 - 10 - 10	0.0004	
Naphthalene	91-20-3	178	5.52	5.52	CB	14	0.097	1.5	0.0005	1.8E-08
Benzo[a]pyrene	50-32-8	17.8	0.115		ca	1	0.062		0.0035	
Acenaphthene	83-32-9	3,590		3,590.	nc	1	0.0132		0.	
Acenaphthylene	208-96-8		12	*A8.8.01.			0.044		0	
Anthracene	120-12-7		-	17.900.	nc		0.037		0.	
Benzialanthracene	56-55-3		1.14	1.14	Ca	1	0.0289			2.5E-08
Benzo(b)fluoranthene	205-99-2		1.15	1.15	ca		0.074	1 - 100		6.4E-08
Benzo(g,h,i)perviene	191-24-2			and the second sec			0.065			William and
Benzo(k)fluoranthene	207-08-9		11.5	11.5	CB	1	0.0179			1.6E-09
Chrysene	218-01-9		115.	115.	Ca	+	0.0314	1		2.7E-10
Dibenzia, hjanthracene	53-70-3		0.115		63		0.0142			1.2E-07
Fluoranthene	205-44-0			2,390	nc	-	0.033	AND ADDRESS	0	1166-197
Fluorene	86-73-7		12	2.390	nc	1	0.0135		D.	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1,15	ca	1 1	0.057	10 1 - 5	10.1	5.0E-08
Methylnaphthalene, 1-	90-12-0		17.6	17.6	CB	1	0,126		0	7.2E-09
Methylnaphthalene, 2-	91-57-6	239.	+	239.	nc	1 1	0.192		0.0008	
Phenanthrene	85-01-8		1	4.00.	110	1	0.079	1	.0.0000	
Pyrene	129-00-0		1	1,790.	nc		0.075	1	0	
ryiene	125-00-0	1,790.	-	1,780.	nç	T T	0.07			
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BRRTS # :	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-26	3-1 3'	0	0.0009	2.8E-07
	Bottom-Line: Y	Yes, levels are below direct-c	ontact concern.	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotent (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ća	1	0.0096	C-FC FFG	0.0001	1.7E-09
Benzolalpyrene	50-32-8	17.6	0.115	0.115	C3		0.0142		0.0008	1.2E-07
Acenaphthene	83-32-9	3,590.	4	3,590,	nc		0.0132	2	0.	A CONTRACTOR
Acenaphthylene	208-95-8		-				0.0165			
Anthracene	120-12-7	17.900		17,900.	nc		0.0073		0.	
Benzíalanthracene	56-55-3	-	1.14	1.14	ca		0.0158			1.4E-08
Benzo[b]fluoranthene	205-99-2		1.15	1.15	ca		0,0099		2 20 10 10	8.6E-09
Benzolg, h.ijpervlene	191-24-2						0.0118			
Benzo(k)fluoranthene	207-08-9		11.5	11.5	ca		0.0091	The Party Street of Street		7.9E-10
Chrysene	218-01-9		115.	115.	ca		0.0124			1.1E-10
Dibenz(a.hjanthracene	53-70-3		0.115	0.115	ca		0.0142	111		1.2E-07
Fluoranthene	206-44-0		-	2,390	nc		0.0091	1000	0.	1.4.4.7011
Fluomne	86-73-7			2,390.	nc		0.0094		0.	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca	10000	0.0126	Transfer III		1.1E-08
Methylnaphthalene, 1-	90-12-0		17.6	17.6	ca		0.0101	The second se	0.	5.7E-10
Methylnaphthalene, 2-	91-57-6	239		239.	nc		0.0138	The State of the second se	0.0001	0.72-10
Phenanthrene	85-01-8				1114		0.008		9.0001	the second second
Pyrane	129-00-0	1,790.	2	1,790.	nc		0.0091		0.	
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BRRTS # :	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-27-1 3		0	0.0009	2.8E-07
	Bottom-Line:	Yes, levels are below direct-co	ntact concern.	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5,52	ca		0.0096	1	0.0001	1.7E-09
Benzolalpyrene	50-32-8	17.8	0,115	0.115	ca		0.0142		0.0008	1.2E-07
Acenaphthene	83-32-9	3,590.		3,590.	nc	1	0.0132	100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100 - 100	0	
Acenaphthylene	208-96-8			St C. Cala			0.0124			
Anthracene	120-12-7	17,900.	•	17.900.	nc		0.0073	1000	0.	
Benz[a]anthracene	56-55-3		1.14	1.14	Ca	1	0.0158	1.2	1	1.4E-08
Benzo[b]fluoranthene	205-99-2		1.15	1.15	ca		0.0099		77	8.6E-09
Benzo(g,h,i)perylene	191-24-2						0.0118	-	TRANSPORT OF	3,000,000
Benzolkifluoranthene	207-08-9		11.5	11.5	ce		0.0091	distant in the second s		7.9E-10
Chrysene	218-01-9		115.	115.	ca	1	0.0124	1		1.1E-10
Dibenzia, h)anthracene	53-70-3		0.115	0.115	ca	1	0.0142			1.2E-07
Fluoranthene	205-44-0		-	2.390.	nc		0.0091		0.	7.6ye 071
Fluorene	86-73-7			2.390	nc		0.0094	10 C C	D	
Indeno[1,2,3-cd]pyrene	193-39-5		1,15	1.15	CB.		0.0126	-	-	1.1E-06
Methylnaphthalene, 1-	90-12-0		17.6	17.6	ca		0.0101	1	0	5.7E-10
Methylnaphthalene, 2-	91-57-6		-	239.	nc	1	0.0138	100	0.0001	Tui 7al 6
Phenanthrene	85-01-8		-				0.0077		0.0001	
Pyrene	129-00-0	1,790	÷	1,790.	nc	î	0.0091		0.	

BRRTS#	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-28-1 3'		0	0.0009	2.8E-07
	Bottom-Line:	Yes, levels are below direct-c	ontact concern.	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-31	178.	5.52	5.52	ca	1	0.0096		0.0001	1.7E-09
Benzojajpyrene	50-32-8	17.8	0.115	0.115	CB		0.0142	220233	0.0005	1.2E-07
Acenaphthene	83-32-9	3,590		3,590.	00		0.0132	and the second second	0	C-TIMUTA
Acenaphthylene	208-96-8		+		1102		0.0116			the second se
Anthracene	120-12-7	17,900.		17,900.	nc		0.0073		0.	
Benz[a]anthracene	56-55-3	inimp novine	1.14	1.14	Ca		0.0158			1.4E-08
Benzo[b]fluoranthene	205-99-2	•	1.15	1.15	ca		0.0099			8.6E-09
Benzolg h. i)perviene	191-24-2			1.1.1.1.1.T.1.T.1.		-	0.0118			AIRE.67
Benzo[k]fluoranthene	207-08-9		11,5	11.5	ca		0.0091	10000		7.9E-10
Chrysene	218-01-9		115.	115,	ca	1	0.0124			1.1E-10
Dibenz(a.hlanthracone	53-70-3		0.115	0.115	CE		0.0142	in a second		1.2E-07
Fluoranthene	206-44-0			2,390.	nc		0.0115		0.	the second se
Fluorene	86-73-7		-	2,390.	nc	-	0.0094		0	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca		0.0126			1.1E-08
Methylnaphthalene, 1-	90-12-0		17.6	17.6	Ca		0.0101		0.	5.7E-10
Methyinaphthalene, 2-	91-57-6	239.		239.	ng		0.0138		0.0001	0.75.10
Phenanthrene	85-01-8		143	57.0			0.0103			
Pyrene	129-00-0			1,790.	nc		0.0111		0.	CONTRACTOR OF THE R
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BRRTS # :	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-57-11819 Herriges Oil BP South G-29-1 1.5		1	0.0503	1.1E-05
	Bottom-Line: NOI This NON-INDUSTR contaminant levels o	NAL site sampling location v or the construction of a cap/ pathway.		

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HO) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	CB		0.0155	1	0.0001	2.8E-09
Benzo[a]pyrene	50-32-8	17,8	0.115	0.115	ca		0.87	E	0.0489	7.6E-06
Acenaphthene	83-32-9	3,590,	+	3,590.	nc		0.0145		0:	
Acenaphthylene	208-96-8		-	1001010104		1	0.052			
Anthracene	120-12-7	17,900.	•	17,900.	nc	1 maria	0.155		Û,	
Benz(a)anthracene	56-55-3		1.14	1.14	ca		0.8			7.0E-07
Benzo(b)fluoranthene	205-99-2		1.15	1.15	CB	1	1.14			9.9E-07
Benzo(g.h.i)perviene	191-24-2	-	-			1	0.41		and the second second	the second second
Benzo(k)fluoranthene	207-08-9	*	11,5	11.5	ca		0.38	1	>	3.3E-08
Chrysene	218-01-9		115	115.	ca		0.61	1		7.0E-09
Dibenz[a,h]anthracene	53-70-3		0.115	0 115	ca		0.097			8.4E-07
Fluoranthene	206-44-0		-	2.390	nc	1	1.39	10 C 10 C 1	0.0005	Configuration of the second
Fluorene	85-73-7			2.390.	nc		0.0198	1-6	0.	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1 15	ca		0.51	The State of State		4.4E-07
Methylnaphthalene, 1-	90-12-0		17.6	17.6	C3	1	0.0221	(and a second s	0	1.3E-09
Methylnaphthalene, 2-	91-57-6	239	. 11.20	239.	nc		0.0196	1	0.0001	
Phenanthrene	85-01-8					1	0.28			
Pyrene	129-00-0		-	1,790.	nc.	Î	1.19	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	0.0007	

BRRTS#:	# of Soil-Concentration Entries:	8	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-31-1 3			0	0.0035	8 0E-07
	Bottom-Line:	Yes, levels are	below direct-o	ontact concern	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RGL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalane	91-20-3	178.	5.52	5.52	ca		0.0096		0 0001	1.7E-09
Benzola]pyrene	50-32-8	17.8	0.115	0.115	ca	1	0.059		0.0033	5.1E-07
Acenaphthene	83-32-9	3,590.		3,590.	00	1	0.0132	Contraction of the local sectors of the local secto	0.	
Acenaphthylene	208-96-8		(i)				0.0237			The second second
Anthracene	120-12-7	17,900.		17,900.	nc		0.0148		0.	
Benz[a]anthracene	56-55-3		1.14	1.14	ca		0.051			4.5E-08
Benzo(b)fluoranthene	205-99-2	-	1.15	1.15	Cā		0.087			7.6E-08
Benzolo, h. ilperviene	191-24-2	-					0.036		Contraction of the	
Benzo(k)fluoranthene	207-08-9		11.5	11,5	ca		0.0266			2.3E-09
Chrysene	218-01-9		115.	115	ca		0.051			4.4E-10
Dibenz[a,h]anthracene	53-70-3		0.115	0.115	Câ		0.0142		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1.2E-07
Fluoranthene	206-44-0		time	2.390.	nc		0.075		0.	
Fluorene	86-73-7		0	2,390.	nc		0.0094	S	0.	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca		0.043			3.7E-08
Methylnaphthalene, 1-	90-12-0		17.6	17.6	ca		0.0101		0	5.7E-10
Methyinaphthalene, 2-	91-57-6	239		239	nc	1	0.0138		0.0001	2.76-10
Phenanthrene	85-01-8		100		114		0.0249			
Pyrene	129-00-0			1,790.	nc		0.07	The state of the s	0.	the state of the second
						-				

BRRTS # :	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-57-11819 Herriges Oil BP South G-32-1 3"		0	0.0009	2.8E-07
	Bottom-Line;	Yes, levels are below direct-c	ontact concern	

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To- Exceed D-C RCL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthaiene	91-20-3	178.	5.52	5.52	Ciá		0.0096	1=1.000	0.0001	1.7E-09
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	Ca		0.0142		0.0008	1.2E-07
Acenaphthene	83-32-9	3,590	2	3,590.	00		0.0132		0.	and the second second
Acenaphthylene	208-96-8		24 I	0.0000			0.0092	102 200		
Anthracene	120-12-7	17,900.		17,900.	nc		0.0073		0.	1
Benz[a]anthracene	56-55-3	• _	1.14	1.14	ca		0.0158			1.4E-08
Benzo[b]fluoranthene	205-99-2	÷	1.15	1,15	Ca		0.0099	1.		8.6E-09
Benzo(g,h,l]perviene	191-24-2						0.0118	112	-	0.02.00
Benzo[k]fluoranthene	207-08-9	2	11.5	11.5	ca		0.0091	10000	ALC: NOT THE OWNER.	7.9E-10
Chrysene	218-01-9		115.	115.	ca	Î	0.0124			1.1E-10
Dibenz[a,h]anthracene	53-70-3		0.115	0.115	ca		0.0142	THE R. LEWIS		1.2E-07
Fluoranthene	206-44-0		+	2.390.	00		0.0095	1000	0.	1.46.91
Fluorene	86-73-7			2 390.	nc.		0.0094	53 100 31	0.	
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca		0.0126		(Mr)	1.1E-08
Methyinaphthalene, 1-	90-12-0		17.6	17.6	ca		0.0101		D.	5.7E-10
Methylnaphthalene, 2-	91-57-5	239		239.	nc		0.0136	10.11	0.0001	0.72-10
Phenanthrene	85-01-8		1.	2.90	116		0.0077	-	0.0001	Contraction of the local sectors of the local secto
Pyrene	129-00-0			1,790.	nc	-	0.0109	-	0.	Autorities The state

BRRTS # :	# of Soil-Concentration Entries: 18		Number of Individual xceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-33-1 3			0	0.0009	2.8E-07
COLDER SC. COLDER SCORE	Bottom-Line:	Yes, levels are be	elow direct-co	ontact concern.	

Contaminant	CAS Number	NC RCL (mg/kg)	C RGL (mg/kg)	Not-To- Exceed D-C RGL (mg/kg)	Basis	BTV (mg/kg)	INPUTTED Site Data (mg/kg)	Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Naphthalene	91-20-3	178.	5.52	5.52	ca	1	0.0096		0.0001	1.7E-09
Benzolalpyrene	50-32-8	17.8	0.115	0.115	ca		0.0142	1.1	0.0008	1.2E-07
Acenaphthene	83-32-9	3,590.		3.590.	nc	1	0.0132	Sec	0	and the second
Acenaphthylene	208-95-8			114 (m. 41141) // m.			0.0092		110,000,000,000	
Anthracene	120-12-7	17,900.	+	17,900.	nc		0.0073		0.	
Benz[a]anthracene	56-55-3		1.14	1.14	ca		0.0158			1.4E-08
Benzo[b]fluoranthene	205-99-2	- C	1,15	1.15	ca		0.0099	1.	2 2 2 2	8.6E-09
Benzolg, h. Iperviene	191-24-2		2.			1	0.0118	5-1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	1	And Address of
Benzo(k)fluoranthene	207-08-9		11.5	11.5	са		0.0091			7.9E-10
Chrysene	218-01-9		115.	115	ca		0.0124			1 1E-10
Dibenz(a,h)anthracene	53-70-3		0.115	0.115	ca		0.0142		Constant State State	1.2E-07
Fluoranthene	206-44-0			2,390.	nc		0.0159		0.	1107.2.87
Fluorene	86-73-7		1	2,390.	RC		0.0094		0.	and the second second
Indeno[1,2,3-cd]pyrene	193-39-5		1.15	1.15	ca		0.0126	COLUMN TWO IS NOT		1.1E-08
Methylnaphthalene, 1-	90-12-0		17.6	17.6	ca		0.0101	And in case of the local division of the loc	0.	5.7E-10
Methyinaphthalene, 2-	91-57-6	239	-	239	00		0.0138	CHICKLEY IN	0.0001	0.12.10
Phenanthrene	85-01-8		1	2.44	1110		0.0130		0.0001	
Pyrene	129-00-0	1.790.	1.	1,790.	nc		0.0129		0.	

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

JASON POWELL METCO 709 GILLETTE ST LA CROSSE, WI 54603-2382

Report Date 18-Mar-21

Project Name H Project #					Invoi	ce # E3914	7						
Sample ID Sample Matrix	5039147A G-22-1 Soil 3/8/2021	Decult		TT	LOD	100	Dil		Method	Ext Date	Run Date	Anolyst	Code
		Result		Unit	LOD	LUQ	ווע		Method	Ext Date	Kun Date	Analysi	Coue
General General Solids Percent		86.5		%				1	5021		3/10/2021	NJC	3
Organic													
PAH SIM													
Acenaphthene	1	0.064		mg/kg	0.0132	0.05	L	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.034 "J"		mg/kg	0.0092	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		0.306		mg/kg	0.0073	0.02	3	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene		0.76		mg/kg	0.0158	0.06	l	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		0.66		mg/kg	0.0142	0.05	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthene	e	0.88		mg/kg	0.0099	0.03	3	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene		0.294		mg/kg	0.0118	0.04	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	e	0.283		mg/kg	0.0091	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		0.74		mg/kg	0.0124	0.04	3	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthrace	ene	0.067		mg/kg	0.0142	0.05	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		1.87		mg/kg	0.0091	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene	1	0.069		mg/kg	0.0094	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyre	ne	0.37		mg/kg	0.0126	0.04	3	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalen	e		< 0.0101	mg/kg	0.0101	0.03)	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	9		< 0.0138	mg/kg	0.0138	0.05	3	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene			< 0.0096	mg/kg	0.0096	0.03	7	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		0.99		mg/kg	0.0077	0.0	3	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		1,47		mg/kg	0.0091	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1

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Project Name H Project #	HERRIGES	OIL BULK PLA	NT		Invoice # E39147							
Lab Code Sample ID Sample Matrix												
Sample Date	3/8/2021	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code	
General												
General Solids Percent		91.3	%			1	5021		3/10/2021	NJC	1	
Organic PAH SIM												
Acenaphthene		8.90	mg/kg	0.66	2.5	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Acenaphthylene		2.45	mg/kg	0.46	1.7	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Anthracene		36.0	mg/kg	0.365	1.	4 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Benzo(a)anthracene	2	50.0	mg/kg	0.79	3.0	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Benzo(a)pyrene		47.0	mg/kg	0.71	2.7	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Benzo(b)fluoranthe	ne	53.0	mg/kg	0.495	1.	9 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Benzo(g,h,i)peryler	ne	26.3	mg/kg	0.59	2.2	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Benzo(k)fluoranthe	ne	19.6	mg/kg	0.455	1.7	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Chrysene		45.0	mg/kg	0.62	2.	4 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Dibenzo(a,h)anthra	cene	5.50	mg/kg	0.71	2.7	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Fluoranthene		114	mg/kg	0.455	1.7	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Fluorene		13.9	mg/kg	0.47	1.	8 50	M8270C	3/16/2021	3/17/2021	NJC	1	
Indeno(1,2,3-cd)py	rene	29.5	mg/kg	0.63	2.	4 50	M8270C	3/16/2021	3/17/2021	NJC	1	
1-Methyl naphthale	ne	2.22	mg/kg	0.505	1.9	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
2-Methyl naphthale	ne	1.39 "J"	mg/kg	0.69	2.6	5 50	M8270C	3/16/2021	3/17/2021	NJC	1	
			-				1 100 - 0 0	0 10 1 10 00 0	0/1 = (0.0.0.1	110	1.00	

1.85

1.5

1.75

0.48

0.385

0.455

mg/kg

mg/kg

mg/kg

Naphthalene

Phenanthrene

Pyrene

2.62

88.0

94.0

50

50

50

M8270C

M8270C

M8270C

3/16/2021

3/16/2021

3/16/2021

3/17/2021

3/17/2021

3/17/2021

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WI DNR Lab Certification # 445037560

Project Name H Project #	HERRIGES			Invoice # E39147									
Lab Code Sample ID Sample Matrix Sample Date	5039147C G-24-1 Soil 3/8/2021	Result		Unit	LOD	LOQ	Dil		Method 1	Ext Date	Run Date	Analyst	Code
General													
General Solids Percent		92.4		%				1	5021		3/10/2021	NJC	Ť
		92.4		70				1	5021		5/10/2021	INJC	1
Organic													
PAH SIM Acenaphthene		0.44		mg/kg	0.0132	2 0.05	1 3	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.263		mg/kg	0.0092			1	M8270C	3/16/2021		NJC	F
Anthracene		0.269		mg/kg	0.0073			i.	M8270C	3/16/2021		NJC	1
Benzo(a)anthracene		0.059 "J	,	mg/kg	0.0158			1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		0.064		mg/kg	0.0142			1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ne	0.085		mg/kg	0.0099	0.03	8	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylen		0.046		mg/kg	0.0118	0.04	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe		0.0258 ".	J"	mg/kg	0.0091	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		0.066		mg/kg	0.0124	0.04	8	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	cene		< 0.0142		0.0142	2 0.05	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		0.128		mg/kg	0.0091	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		0.64		mg/kg	0.0094	0.03	6	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	0.051		mg/kg	0.0126	0.04	8	1	M8270C	3/16/2021		NJC	1
1-Methyl naphthale	ne	4.70		mg/kg	0.0101	0.03	9	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthale	ne	1.09		mg/kg	0.0138	3 0.05	3	1	M8270C	3/16/2021		NJC	1
Naphthalene		0.68		mg/kg	0.0096			1	M8270C	3/16/2021		NJC	1
Phenanthrene		0.99		mg/kg	0.0077			1	M8270C	3/16/2021		NJC	1
Pyrene		0.199		mg/kg	0.0091	0.03	5	1	M8270C	3/16/2021	3/16/2021	NJC	1
PVOC													
Benzene		0.061 "J	•	mg/kg	0.016	5 0.06	2	1	GRO95/8021		3/17/2021	CJR	1
Ethylbenzene		0.159		mg/kg	0.015	5 0.05	9	1	GRO95/8021		3/17/2021	CJR	1
Methyl tert-butyl et	her (MTBE)		< 0.025	mg/kg	0.018	3 0.07	1	1	GRO95/8021		3/17/2021	CJR	1
Toluene		0.111		mg/kg	0.016			1	GRO95/8021		3/17/2021	CJR	1
1,2,4-Trimethylben:	zene	8.1		mg/kg	0.013			1	GRO95/8021		3/17/2021	CJR	1
1,3,5-Trimethylben	zene	2.93		mg/kg	0.017			1	GRO95/8021		3/17/2021	CJR	1
m&p-Xylene		0.44		mg/kg	0.039			1	GRO95/8021		3/17/2021	CJR	1
o-Xylene		0.48		mg/kg	0.014	0.05	5	1	GRO95/8021		3/17/2021	CJR	1

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Project Name H Project #	HERRIGES	OIL BULK PLA	NT			Invoice # E39147						
Lab Code Sample ID Sample Matrix Sample Date	5039147D G-25-1 Soil 3/8/2021	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code	
General												
General												
Solids Percent		90.3	%			1	5021		3/10/2021	NJC	1	
Organic												
PAH SIM												
Acenaphthene		< 0.0132	mg/kg	0.0132	0.051	1	M8270C	3/16/2021		NJC		
Acenaphthylene		0.044	mg/kg	0.0092			M8270C	3/16/2021		NJC	1	
Anthracene		0.037	mg/kg	0.0073			M8270C	3/16/2021		NJC	1	
Benzo(a)anthracene	;	0.0289 "J"	mg/kg	0.0158			M8270C	3/16/2021		NJC	1	
Benzo(a)pyrene		0.062	mg/kg	0.0142			M8270C	3/16/2021		NJC	1	
Benzo(b)fluoranthe		0.074	mg/kg	0.0099			M8270C	3/16/2021		NJC	1	
Benzo(g,h,i)perylen	e	0.065	mg/kg	0.0118			M8270C	3/16/2021		NJC	1	
Benzo(k)fluoranthe	ne	0.0179 "J"	mg/kg	0.0091			M8270C	3/16/2021		NJC	1	
Chrysene		0.0314 "J"	mg/kg	0.0124			M8270C	3/16/2021		NJC	1	
Dibenzo(a,h)anthrac	cene	< 0.0142	0 0	0.0142			M8270C	3/16/2021		NJC	1	
Fluoranthene		0.033 "J"	mg/kg	0.0091			M8270C	3/16/2021		NJC	1	
Fluorene		0.0135 "J"	mg/kg	0.0094			M8270C	3/16/2021		NJC		
Indeno(1,2,3-cd)pyr		0.057	mg/kg	0.0126			M8270C	3/16/2021		NJC	2	
1-Methyl naphthale		0.126	mg/kg	0.0101			M8270C	3/16/2021		NJC	1	
2-Methyl naphthale	ne	0.192	mg/kg	0.0138			M8270C	3/16/2021		NJC	1-	
Naphthalene		0.097	mg/kg	0.0096			M8270C	3/16/2021		NJC	1	
Phenanthrene		0.079	mg/kg	0.0077			M8270C	3/16/2021		NJC	1	
Pyrene		0.07	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1	
PVOC											8	
Benzene		0.046 "J"	mg/kg	0.016			GRO95/80		3/17/2021	CJR	1	
Ethylbenzene		0.069	mg/kg	0.015			GRO95/80		3/17/2021	CJR	1	
Methyl tert-butyl et	her (MTBE)	< 0.025	mg/kg	0.018			GRO95/80		3/17/2021	CJR	1	
Toluene		0.244	mg/kg	0.016			GRO95/80		3/17/2021	CJR	1	
1,2,4-Trimethylben:	zene	0.279	mg/kg	0.013			GRO95/80		3/17/2021	CJR	1	
1,3,5-Trimethylben:	zene	0.136	mg/kg	0.017			GRO95/80		3/17/2021	CJR	1	
m&p-Xylene		0.49	mg/kg	0.039			GRO95/80		3/17/2021	CJR	1	
o-Xylene		0.192	mg/kg	0.014	0.055	1	GRO95/80	21	3/17/2021	CJR	1	

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Project Name Project #	HERRIGES	OIL BULK PL	ANT				Invoi	ce # E3914	7		
Lab Code Sample ID Sample Matrix Sample Date	5039147E G-26-1 Soil 3/8/2021										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent		86.0	%			1	5021		3/10/2021	NJC	1
Organic											
PAH SIM											
Acenaphthene		< 0.013	2 mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.0165 "J"	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		< 0.007	3 mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracen	e	< 0.015	8 mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	4
Benzo(a)pyrene		< 0.014	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ene	< 0.009	9 mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryler	ne	< 0.011	8 mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe	ene	< 0.009	1 mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		< 0.012	4 mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	icene	< 0.014	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	4
Fluoranthene		< 0.009	1 mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		< 0.009	4 mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	< 0.012	6 mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthale	ene	< 0.010	1 mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthale	ene	< 0.013	8 mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		< 0.009	6 mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		0.008 "J"	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		< 0.009	1 mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

Project Name Project #	HERRIGES	OIL BULK PLA	ANT				Invoi	ce # E3914	7		
Lab Code Sample ID Sample Matrix Sample Date	5039147F G-27-1 Soil 3/8/2021						ίζα.				
		Result	Unit	LOD	LOQ Di	1	Method	Ext Date	Run Date A	nalyst	Code
General General Solids Percent		89.3	%			1	5021		3/10/2021	NJC	1
Organic PAH SIM											
Acenaphthene		< 0.013	2 mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.0124 "J"	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	Ĩ.
Anthracene		< 0.007		0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracen	e	< 0.015	8 mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		< 0.014	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ene	< 0.009	9 mg/kg	0.0099	0.038	E	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryle	ne	< 0.011	8 mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe	ene	< 0.009	l mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		< 0.012	4 mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	acene	< 0.014	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	2	< 0.009	1 mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		< 0.009	4 mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	< 0.012	6 mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthal	ene	< 0.010	l mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthal	ene	< 0.013	8 mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		< 0.009	6 mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		< 0.007	7 mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		< 0.009	l mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

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Project Name Project #	HERRIGES	OIL BULK PLA	NT				Invoi	ice # E3914	7		
Lab Code Sample ID Sample Matrix Sample Date	5039147G G-28-1 Soil 3/8/2021		** •/						D D (
		Result	Unit	LOD	LOQI	Dil	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent		88.1	%			1	5021		3/10/2021	NJC	1
Organic PAH SIM											
Acenaphthene		< 0.0132	2 mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.0116 "J"	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		< 0.0073	B mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracen	e	< 0.0158	8 mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		< 0.0142	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ene	< 0.0099) mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryler	ne	< 0.0118	8 mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe	ene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		< 0.0124	l mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	icene	< 0.0142	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		0.0115 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		< 0.0094	l mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	< 0.0126	6 mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthale	ene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthale	ene	< 0.0138	8 mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		< 0.0096	6 mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		0.0103 "J"	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		0.0111 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

Project Name Project #	HERRIGES	OIL BULK PLA	NT				Invo	ice # E3914	17		
Lab Code Sample ID Sample Matrix Sample Date	5039147H G-29-1 Soil 3/8/2021										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent		91.5	%			1	5021		3/10/2021	NJC	I
Organic											
PAH SIM											
Acenaphthene		0.0145 "J"	mg/kg	0.0132	0.05	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.052	mg/kg	0.0092	0.03	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		0.155	mg/kg	0.0073	0.02	8 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	e	0.80	mg/kg	0.0158	0.06	1 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		0.87	mg/kg	0.0142	0.05	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ne	1.14	mg/kg	0.0099	0.03	8 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryler	ne	0.41	mg/kg	0.0118	0.04	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe	ne	0.38	mg/kg	0.0091	0.03	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		0.81	mg/kg	0.0124	0.04	8 1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	сепе	0.097	mg/kg	0.0142	0.05	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		1.39	mg/kg	0.0091	0.03	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		0.0198 "J"	mg/kg	0.0094	0.03	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	0.51	mg/kg	0.0126	0.04	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthale	ne	0.0221 "J"	mg/kg	0.0101	0.03	9 1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthale	ne	0.0198 "J"	mg/kg	0.0138	0.05	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		0.0155 "J"	mg/kg	0.0096	0.03	7 1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		0.28	mg/kg	0.0077	0.0	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		1.19	mg/kg	0.0091	0.03	5 1	M8270C	3/16/2021	3/16/2021	NJC	1

Project Name Project #	HERRIGES	OIL BUL	K PLA	NT				Invoi	i ce # E3914	7		
Lab Code Sample ID Sample Matri Sample Date	5039147I G-30-1 x Soil 3/8/2021										6	
		Result		Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent		87.8		%			1	5021		3/10/2021	NJC	1
Organic							-					989
PAH SIM												
Acenaphthene			< 0.0132	mg/kg	0.0132	0.05	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene			< 0.0092	mg/kg	0.0092	0.03	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene			< 0.0073	mg/kg	0.0073	0.02	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthrace	ne		< 0.0158	mg/kg	0.0158	0.06	i ŭ	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene			< 0.0142	mg/kg	0.0142	0.05	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluorant	hene		< 0.0099	mg/kg	0.0099	0.03	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryl	ene		< 0.0118	mg/kg	0.0118	0.04	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranti	hene		< 0.0091	mg/kg	0.0091	0.035	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene			< 0.0124	mg/kg	0.0124	0.048	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anth	racene	•	< 0.0142	mg/kg	0.0142	0.055	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene			< 0.0091	mg/kg	0.0091	0.035	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene			< 0.0094	mg/kg	0.0094	0.036	5 1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)p	yrene		< 0.0126	mg/kg	0.0126	0.048	3 1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphtha	llene		< 0.0101	mg/kg	0.0101	0.039) [M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphtha	lene		< 0.0138	mg/kg	0.0138	0.053	5 I	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		•	< 0.0096	mg/kg	0.0096	0.037	7 1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		•	< 0.0077	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		~	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

Project Name Project #	HERRIGES	OIL BULK PLA	NT				Invoi	i ce # E3914	7		
Lab Code Sample ID Sample Matrix Sample Date	5039147J G-31-1 Soil 3/8/2021										
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent		72.6	%			1	5021		3/10/2021	NJC	1
Organic											
PAH SIM											
Acenaphthene		< 0.0132	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		0.0237 "J"	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		0.0148 "J"	mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene		0.051 "J"	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		0.059	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ne	0.087	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryler	ie	0.036 "J"	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe	ne	0.0266 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		0.051	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	cene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		0.075	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		< 0.0094	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	0.043 "J"	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthale	ne	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthale	ne	< 0.0138	mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		< 0.0096	mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		0.0249 "J"	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		0.07	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

Project Name Project #	HERRIGES	OIL BULK PL	ANT				Invoi	ce # E3914	.7		
Lab Code Sample ID Sample Matrix Sample Date	5039147K G-32-1 Soil 3/8/2021							£			
		Result	Unit	LOD	LOQ I	Dil	Method	Ext Date	Run Date	Analyst	Code
General General Solids Percent		91.3	%			1	5021		3/10/2021	NJC	1
Organic											
PAH SIM											
Acenaphthene		< 0.013	2 mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		< 0.009	2 mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		< 0.007	3 mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	e	< 0.015	8 mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		< 0.014	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ne	< 0.009	9 mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)peryler	ne	< 0.011	8 mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthe	ne	< 0.009	1 mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		< 0.012	4 mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthra	cene	< 0.014	2 mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		0.0095 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		< 0.009	4 mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)py	rene	< 0.012	6 mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthale	ne	< 0.010	l mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthale	ne	< 0.013	8 mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		< 0.009	6 mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		< 0.007	7 mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		0.0109 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

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Project Name H Project #	HERRIGES	OIL BULK PLA	NT				Invoi	ice # E3914	17		
Lab Code Sample ID Sample Matrix Sample Date	5039147L G-33-1 Soil 3/8/2021				2						
		Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General General			ž.								
Solids Percent		88.0	%			1	5021		3/10/2021	NJC	1
Organic PAH SIM											
Acenaphthene		< 0.0132	mg/kg	0.0132		1.2	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene		< 0.0092	mg/kg	0.0092			M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene		< 0.0073	mg/kg	0.0073	0.028	I	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	:	< 0.0158	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene		< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthe	ne	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylen	e	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranther	ne	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene		< 0.0124	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthrac	cene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene		0.0159 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene		< 0.0094	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	
Indeno(1,2,3-cd)pyr	ene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
I-Methyl naphthale	ne	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthaler	ne	< 0.0138	mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene		< 0.0096	mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene		0.011 "J"	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene		0.0129 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
"J" Flag: Aı	nalyte detected	between LOD and L	OQ	L	OD Limit	of Detec	tion	LOQ Lir	nit of Quantita	tion	

Code Comment

1 Laboratory QC within limits.

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

Authorized Signature

Michael Ricker

WI DNR Lab Certification # 445037560

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CHAIN OF	STODY RECOR	D		S	v	erg	V	7				Chain # No 40457										
Lab I.D. #					1000	1	-					-		-		-	_ of	-	-			-
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Email			Email				O po	0 Q Q	EINI	REA	A 82	PA	NAF	ш	SUSF		LTC N	WEI	1.1			PID/ FID
Lab I.D,	Sample I.D.	Collec Date	tion Filtere Time Y/N	d No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO	GRO (Mod GRO Sep 95) I FAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270) PCR	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC AIR (TO - 15)	8-RCRA METALS				
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Comments/Spec	ial Instructions (*Specify	r groundwater	n: 20∧ "GW", Drinking	Water "DW", V	Vaste Water	*WW", Soil "S*	, Aiı	r "A",	Oil, :	Slud	ge, e	tc.)	<u> </u>									
Meth	ntegrity - To be complete od of Shipment:			Relinquish	ed By (sign)	1) .0	Tim Hav	е Ам.		Date <u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> <u> </u> </u>		Rece	lved	By:	(sign)	3		Т	me		Date
	p. of Temp. Blank: al intact upon receipt:	°C On Ice: XYes		Received	in Laboratory	By: Chil	~	~	-				т	ime:	8	:00	,		Dat	:3/	10/2	-1