

From: Jason Powell <jasonp@metcofs.com>
Sent: Tuesday, March 30, 2021 1:14 PM
To: 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 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

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PLAYGROUND FOR HOLY TRINITY CONGREGATIONAL CHURCH & SCHOOL

A.2 Soil Analytical Results Table

Herriges Oil BP S BRRTS #02-67-111819

																	DIRECT CONTACT		
Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl-benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	Exeedance Count	Hazard Index	Cumulative Cancer 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 SAMPLED											
B-3	8-12	U	06/01/12	1.5	NS	NS	NS	NOT SAMPLED											
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 SAMPLED											
B-6	8-12	U	06/01/12	40.0	NS	NS	NS	NOT SAMPLED											
B-7	8-12	U	06/01/12	3.0	NS	NS	NS	NOT SAMPLED											
B-8	8-12	U	06/01/12	1.6	NS	NS	NS	NOT SAMPLED											
B-9	8-12	U	06/01/12	2.5	NS	NS	NS	NOT SAMPLED											
B-10	8-12	U	06/01/12	20.2	NS	NS	NS	NOT SAMPLED											
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (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
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
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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																	Exeedance Count	Hazard Index	Cumulative Cancer 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	NOT SAMPLED														
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	NOT SAMPLED														
G-2-4	14.0	S	03/25/19	0.70	NOT SAMPLED														
G-2-5	16.0	S	03/25/19	0.60	NOT SAMPLED														
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	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-3-3	10.0	S	03/25/19	1.50	NOT SAMPLED														
G-3-4	12.0	S	03/25/19	1.30	NOT SAMPLED														
G-3-5	14.0	S	03/25/19	1.20	NOT SAMPLED														
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 SAMPLED														
G-4-4	12.0	S	03/25/19	1.00	NOT SAMPLED														
G-4-5	14.0	S	03/25/19	0.90	NOT SAMPLED														
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 SAMPLED														
G-5-4	12.0	S	03/25/19	4.00	NOT SAMPLED														
G-5-5	14.0	S	03/25/19	1.00	NOT SAMPLED														
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	NOT SAMPLED														
G-6-4	12.0	S	03/25/19	3.50	NOT SAMPLED														
G-6-5	16.0	S	03/25/19	3.60	NOT SAMPLED														
G-7-1	3.5	U	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	NOT SAMPLED														
G-7-4	12.0	S	03/25/19	1.30	NOT SAMPLED														
G-7-5	14.0	S	03/25/19	0.90	NOT SAMPLED														
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	-			

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																	Exeedance Count	Hazard Index	Cumulative Cancer 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			
G-8-3	10.0	S	03/25/19	8.60	NOT SAMPLED														
G-8-4	12.0	S	03/25/19	0.50	NOT SAMPLED														
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	<0.075	NS			
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	NOT SAMPLED														
G-9-4	12.0	S	03/25/19	2.60	NOT SAMPLED														
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	NOT SAMPLED														
G-10-4	12.0	S	03/25/19	1.40	NOT SAMPLED														
G-10-5	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			
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-11-3	10.0	S	03/25/19	5.30	NOT SAMPLED														
G-11-4	12.0	S	03/25/19	0.80	NOT SAMPLED														
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	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-12-3	10.0	S	03/25/19	3.00	NOT SAMPLED														
G-12-4	12.0	S	03/25/19	2.20	NOT SAMPLED														
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	U	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	NOT SAMPLED														
G-13-4	12.0	S	03/26/19	0.80	NOT SAMPLED														
G-13-5	14.0	S	03/26/19	0.70	NS	NS	NS	<0.025	<0.025	<0.025	0.041	<0.025	<0.025	<0.025	<0.075	NS			
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-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	NOT SAMPLED														
G-14-4	12.0	S	03/26/19	0.60	NOT SAMPLED														
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	342.90	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	NOT SAMPLED														
G-15-4	12.0	S	03/26/19	2.00	NOT SAMPLED														
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	U	03/26/19	381.00	NOT SAMPLED												0		
MW-1-2	8.0	S	03/26/19	852.00	NOT SAMPLED														
MW-1-3	10.0	S	03/26/19	12.50	NOT SAMPLED														
MW-1-4	12.0	S	03/26/19	6.10	NOT SAMPLED														
MW-1-5	14.0	S	03/26/19	4.00	NS	NS	NS	<0.025	<0.025	<0.025	0.0267	<0.025	<0.025	<0.025	<0.075	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-2-2	5.0	S	03/26/19	1.40	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	NOT SAMPLED														
MW-2-4	12.0	S	03/26/19	1.70	NOT SAMPLED														
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			
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	-			

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																	Exeedance Count	Hazard Index	Cumulative Cancer 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	NOT SAMPLED														
MW-3-4	12.0	S	03/26/19	2.10	NOT SAMPLED														
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	NOT SAMPLED														
MW-4-4	12.0	S	03/26/19	2.40	NOT SAMPLED														
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	NOT SAMPLED														
MW-5-4	12.0	S	03/26/19	1.80	NOT SAMPLED														
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	NOT SAMPLED														
MW-6-2	8.0	S	12/09/19	0.60	NOT SAMPLED														
MW-6-3	12.0	S	12/09/19	0.50	NOT SAMPLED														
MW-6-4					NO RECOVERY														
MW-7-1	3.5	U	12/09/19	0.70	NOT SAMPLED												0		
MW-7-2	8.0	S	12/09/19	0.60	NOT SAMPLED														
MW-7-3	12.0	S	12/09/19	0.30	NOT SAMPLED														
MW-7-4	14.0	S	12/09/19	0.40	NOT SAMPLED														
G-16-1	3.5	U	12/09/19	2.80	NOT SAMPLED												0		
G-17-1	3.5	U	12/09/19	1.20	NOT SAMPLED												0		
G-18-1	3.5	U	12/09/19	1.20	NOT SAMPLED												0		
G-19-1	3.5	U	12/09/19	1.10	NOT SAMPLED												0		
G-20-1	3.5	U	12/09/19	0.20	NOT SAMPLED												0		
G-21-1	3.5	U	12/09/19	0.40	NOT SAMPLED												0		
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (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
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
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)

A.2 Soil Analytical Results Table
Herriges Oil BP S BRRTS #02-67-111819

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl-benzene (ppm)	MTBE (ppm)	Naph-thalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT (PVOC & PAH)		
																	Exeedance Count	Hazard Index	Cumulative Cancer Risk
G-22-1	1.5	U	03/08/21	0.50	NOT SAMPLED												1	0.0389	8.1E-06
G-23-1	1.5	U	03/08/21	0.87	NOT SAMPLED												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 SAMPLED												0	0.0009	2.8E-07
G-27-1	3.0	U	03/08/21	0.63	NOT SAMPLED												0	0.0009	2.8E-07
G-28-1	3.0	U	03/08/21	1.30	NOT SAMPLED												0	0.0009	2.8E-07
G-29-1	1.5	U	03/08/21	0.78	NOT SAMPLED												1	0.0503	1.1E-05
G-30-1	1.5	U	03/08/21	1.70	NOT SAMPLED												0		
G-31-1	3.0	U	03/08/21	1.30	NOT SAMPLED												0	0.0035	8.0E-07
G-32-1	3.0	U	03/08/21	1.30	NOT SAMPLED												0	0.0009	2.8E-07
G-33-1	3.0	U	03/08/21	1.00	NOT SAMPLED												0	0.0009	2.8E-07
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	260*	-			

Bold = Groundwater RCL Exceedance
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(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
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PVOC's = Petroleum Volatile Organic Compounds
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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)

A.2 Soil Analytical Results Table
(PAH)
Herriges Oil BP S BRRTS #02-67-111819

Sample	Depth (feet)	Saturation U/S	Date	Acenaph- thene (ppm)	Acenaph- thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,l) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl- naphthalene (ppm)	2-Methyl- naphthalene (ppm)	Naph- thalene (ppm)	Phenan- threne (ppm)	Pyrene (ppm)	DIRECT CONTACT (PVOC & PAH)		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	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	1.71	(2.22)	3.30	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-4-1	3.5	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	0.0242	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	<0.0071	<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	0.038	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	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-3-1	3.5	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	0.0098	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	0.063	0.122	1	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	0.227	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	0.0279	0.055	0	0.0029	6.5E-07
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	0.49	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
Groundwater RCL				---	---	197	---	0.47	0.4781	---	---	0.1442	---	88.8	14.8	---	---	---	0.6582	---	54.5			
Non-Industrial Direct Contact RCL				3590	---	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
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)			
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

(ppm) = parts per million

PAH = Polynuclear Aromatic Hydrocarbons

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

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

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

NM = Not Measured

ND = No Detects

A.2 Soil Analytical Results Table
(PAH)
Herriges Oil BP S BRRTS #02-67-111819

Sample	Depth (feet)	Saturation U/S	Date	Acenaph- thene (ppm)	Acenaph- thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl- naphthalene (ppm)	2-Methyl- naphthalene (ppm)	Naph- thalene (ppm)	Phenan- threne (ppm)	Pyrene (ppm)	DIRECT CONTACT (PVOC & PAH)		
																						Exceedance Count	Hazard Index	Cumulative Cancer 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
Groundwater RCL						197		0.47	0.4781			0.1442		88.8	14.8			0.6582		54.5				
Non-Industrial Direct Contact RCL				3590		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
Industrial Direct Contact RCL				(45200)		(100000)	(20.8)	(2.11)	(21.1)		(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)		(22600)			
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
(ppm) = parts per million
PAH = Polynuclear Aromatic Hydrocarbons
PID = Photoionization Detector
VOC's = Volatile Organic Compounds

NM = Not Measured
ND = No Detects

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

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

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl-benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT		
																	Exceedance Count	Hazard Index	Cumulative Cancer 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	<u>5</u>	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	<u>0</u>	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	(58)	1.4	10.7	6.1	6.65	NS	<u>7</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-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	<u>2.17</u>	3.2	<0.25	(26.8)	6.1	8.9	9.6	13.8	NS	<u>8</u>	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	<u>1</u>	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-7-1	3.5	U	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	<u>0</u>	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	<u>1</u>	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	<u>11.9</u>	<0.25	<0.25	<0.25	<0.75	NS	<u>7</u>	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	<u>12.3</u>	0.308	4.2	3.8	2.48	NS	<u>2</u>	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			
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	<u>2</u>	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	<u>0</u>	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	<u>5</u>	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	<u>3</u>	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	<u>0</u>	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	<u>0</u>	0.0074	8.7E-07
Groundwater RCL					27	-	-	0.0051	1.57	0.027	0.6582	1.1072	1.3787		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	260	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(260)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (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
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.

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

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

																					DIRECT CONTACT (PVOC & PAH)			
Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (ppm)	Anthracene (ppm)	Benzo(a) anthracene (ppm)	Benzo(a) pyrene (ppm)	Benzo(b) fluoranthene (ppm)	Benzo(g,h,i) perylene (ppm)	Benzo(k) fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h) anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd) pyrene (ppm)	1-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5	U	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-3-1	3.5	U	03/25/19	0.44	0.65	0.73	1.71	(2.22)	3.30	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	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	0.063	0.122	1	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	0.227	0.243	1	0.0069	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	0.49	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
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-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
Groundwater RCL						197		0.47	0.4781			0.1442		88.8	14.8				0.6582		54.5			
Non-Industrial Direct Contact RCL				3590		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
Industrial Direct Contact RCL				(45200)		(100000)	(20.8)	(2.11)	(21.1)		(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)		(22600)			
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

PAH = Polynuclear Aromatic Hydrocarbons

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

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

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

NR 720 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS #: 02-57-11819 Herriges Oil BP South G-22-1 1.5'	# of Soil-Concentration Entries: 18	Number of Individual Exceedance 1	(Cumulative) Hazard Index 0.0389	(Cumulative) Cancer Risk 8.1E-06
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Bottom-Line: **NO!** This **NON-INDUSTRIAL** site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact 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
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0096		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		0.084		0.	
Acenaphthylene	208-96-8	-	-	-	-		0.034			
Anthracene	120-12-7	17,900	-	17,900	nc		0.306		0.	
Benzo[a]anthracene	56-55-3	-	1.14	1.14	ca		0.76			8.7E-07
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.88			7.7E-07
Benzo[g,h,i]perylene	191-24-2	-	-	-	-		0.294			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.283			2.5E-08
Chrysene	218-01-9	-	115	115	ca		0.74			6.4E-09
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.067			5.8E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		1.87		0.0008	
Fluorene	86-73-7	2,390	-	2,390	nc		0.069		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.37			3.2E-07
Methylanthracene, 1-	90-12-0	4,180	17.8	17.8	ca		0.0101		0.	5.7E-10
Methylnaphthalene, 2-	91-57-6	239	-	239	nc		0.0138		0.0001	
Phenanthrene	85-01-8	-	-	-	-		0.99			
Pyrene	129-00-0	1,790	-	1,790	nc		1.47		0.0008	

NR 720 Direct-Contact *Exceedance - Hazard - Risk* Calculation Summary from Soil Data

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'	5	2.772	5.7E-04

Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.

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

[illegible]

BRRTS #:	# of Soil-Concentration Entries:	25	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herriges Oil BP South G-24-1 1.5'			0	0.0458	1.3E-06
Bottom-Line:			Yes, levels are below direct-contact concern.		

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
Benzene	71-43-2	106	1.6	1.6	ca		0.061		0.0006	3.8E-08
Ethylbenzene	100-41-4	4,080	8.02	8.02	ca		0.159		0	2.0E-08
Toluene	108-88-3	5,240	-	818	Csat		0.111		0	
Xylenes	1330-20-7	818	-	260	Csat		0.92		0.0011	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	22,100	63.8	63.8	ca		0.025		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		2.93		0.0086	
Naphthalene	91-20-3	178	5.52	5.52	ca		0.68		0.0038	1.2E-07
Benzo[a]pyrene	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			
Anthracene	120-12-7	17,900	-	17,900	nc		0.269		0	
Benzo[a]anthracene	56-55-3	-	1.14	1.14	ca		0.059			5.2E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.085			7.4E-08
Benzo[g,h,i]perylene	191-24-2	-	-	-	-		0.046			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.0258			2.2E-09
Chrysene	218-01-9	-	115	115	ca		0.066			5.7E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0142			1.2E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		0.128		0.0001	
Fluorene	86-73-7	2,390	-	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	4,180	17.6	17.6	ca		4.7		0.0011	2.7E-07
Methylnaphthalene, 2-	91-57-8	239	-	239	nc		1.09		0.0046	
Phenanthrene	85-01-8	-	-	-	-		0.99			
Pyrene	129-00-0	1,790	-	1,790	nc		0.199		0.0001	

NR 720 Direct-Contact *Exceedance* - *Hazard* - *Risk* Calculation Summary from Soil Data

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-contact concern.		

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)	INPUTED Site Data (mg/kg)	Flag E = Individual Exceedance?	Hazard Quotient (HQ) from Data	Cancer Risk (CR) from Data
Benzene	71-43-2	106	1.6	1.6	ca		0.046		0.0004	2.9E-08
Ethylbenzene	100-41-4	4,080	8.02	8.02	ca		0.069		0	8.6E-09
Toluene	108-86-3	5,240	-	819	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	63.6	63.6	ca		0.025		0	3.9E-10
Trimethylbenzene, 1,2,4-	95-63-6	373	-	219	Csat		0.279		0.0007	
Trimethylbenzene, 1,3,5-	108-67-8	339	-	162	Csat		0.136		0.0004	
Naphthalene	91-20-3	178	5.52	5.52	ca		0.097		0.0005	1.8E-08
Benzo[a]pyrene	50-32-8	17.8	0.115	0.115	ca		0.062		0.0035	5.4E-07
Acenaphthene	83-32-9	3,590	-	3,590	nc		0.0132		0	
Acenaphthylene	208-96-8	-	-	-	-		0.044			
Anthracene	120-12-7	17,900	-	17,900	nc		0.037		0	
Benzo[a]anthracene	56-55-3	-	1.14	1.14	ca		0.0289			2.5E-08
Benzo[b]fluoranthene	205-99-2	-	1.15	1.15	ca		0.074			6.4E-08
Benzo[g,h,i]perylene	191-24-2	-	-	-	-		0.065			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.0179			1.6E-09
Chrysene	218-01-9	-	115	115	ca		0.0314			2.7E-10
Dibenz[a,h]anthracene	53-70-3	-	0.115	0.115	ca		0.0142			1.2E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		0.033		0	
Fluorene	86-73-7	2,390	-	2,390	nc		0.0135		0	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.057			5.0E-08
Methylnaphthalene, 1-	90-12-0	4,180	17.6	17.6	ca		0.126		0	7.2E-09
Methylnaphthalene, 2-	91-57-6	239	-	239	nc		0.192		0.0008	
Phenanthrene	85-01-8	-	-	-	-		0.079			
Pyrene	129-00-0	1,790	-	1,790	nc		0.07		0	

NR 720 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

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-contact concern.		

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)	INPUTED 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	ca		0.0096		0.0001	1.7E-08
Benzo[a]pyrene	50-32-8	17.8	-	0.115	ca		0.0142		0.0008	1.2E-07
Acenaphthene	83-32-9	3,590.	-	-	nc		0.0132		0.	
Acenaphthylene	208-96-8	-	-	-			0.0165			
Anthracene	120-12-7	17,900.	-	-	nc		0.0073		0.	
Benzo[ghi]perylene	56-55-3	-	-	1.14	ca		0.0158			1.4E-08
Benzo[b]fluoranthene	205-99-2	-	-	1.15	ca		0.0099			8.8E-09
Benzo[g,h,i]perylene	191-24-2	-	-	-			0.0118			
Benzo[k]fluoranthene	207-08-9	-	-	11.5	ca		0.0091			7.9E-10
Chrysene	218-01-9	-	-	115.	ca		0.0124			1.1E-10
Dibenz[a,h]anthracene	53-70-3	-	-	0.115	ca		0.0142			1.2E-07
Fluoranthene	206-44-0	2,390.	-	-	nc		0.0091		0.	
Fluorene	86-73-7	2,390.	-	-	nc		0.0094		0.	
Indeno[1,2,3-cd]pyrene	193-39-5	-	-	1.15	ca		0.0126			1.1E-08
Methylnaphthalene, 1-	90-12-0	4,180.	-	17.6	ca		0.0101		0.	5.7E-10
Methylnaphthalene, 2-	91-67-6	239.	-	-	nc		0.0138		0.0001	
Phenanthrene	85-01-8	-	-	-			0.008			
Pyrene	129-00-0	1,790.	-	-	nc		0.0091		0.	

NR 720 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

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-contact concern.		

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)	INPUTED 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		0.0001	1.7E-09
Benzo[a]pyrene	50-32-6	17.8	0.115	0.115	ca		0.0142		0.0008	1.2E-07
Acenaphthene	83-32-9	3,590	-	3,590	nc		0.0132		0	
Acenaphthylene	208-96-8	-	-				0.0124			
Anthracene	120-12-7	17,900	-	17,900	nc		0.0073		0	
Benzo[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			8.6E-09
Benzo[g,h,i]perylene	181-24-2	-	-				0.0118			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		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			1.2E-07
Fluoranthene	205-44-0	2,390	-	2,390	nc		0.0091		0	
Fluorene	86-73-7	2,390	-	2,390	nc		0.0094		0	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.0126			1.1E-06
Methylnaphthalene, 1-	90-12-0	4,180	17.6	17.6	ca		0.0101		0	5.7E-10
Methylnaphthalene, 2-	91-57-6	239	-	239	nc		0.0138		0.0001	
Phenanthrene	85-01-8	-	-				0.0077			
Pyrene	129-00-0	1,790	-	1,790	nc		0.0091		0	

NR 720 Direct-Contact *Exceedance - Hazard - Risk* Calculation Summary from Soil Data

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

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
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0096		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	-	3,590	nc		0.0132		0	
Acenaphthylene	208-96-8	-	-				0.0116			
Anthracene	120-12-7	17,900	-	17,900	nc		0.0073		0	
Benzo[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			8.6E-09
Benzo[g,h,i]perylene	191-24-2	-	-				0.0118			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		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			1.2E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		0.0115		0	
Fluorene	86-73-7	2,390	-	2,390	nc		0.0084		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	4,180	17.6	17.6	ca		0.0101		0	5.7E-10
Methylnaphthalene, 2-	91-57-5	239	-	239	nc		0.0138		0.0001	
Phenanthrene	85-01-8	-	-				0.0103			
Pyrene	129-00-0	1,790	-	1,790	nc		0.0111		0	

NR 720 Direct-Contact *Exceedance - Hazard - Risk* Calculation Summary from Soil Data

BRRTS #:	# of Soil-Concentration Entries: 18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11819 Herrerias Oil BP South	G-29-1 1.5	1	0.0503	1.1E-05
<p>Bottom-Line: NO! This NON-INDUSTRIAL site sampling location will need either further cleanup to lower contaminant levels or the construction of a cap/cover to address the direct-contact pathway.</p>				

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
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0155		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	208-06-8	-	-				0.052			
Anthracene	120-12-7	17,900	-	17,900	nc		0.155		0	
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	ca		1.14			9.9E-07
Benzo[g,h,i]perylene	191-24-2	-	-				0.41			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		0.38			3.3E-08
Chrysene	218-01-9	-	115	115	ca		0.81			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	-	2,390	nc		1.39		0.0006	
Fluorene	86-73-7	2,390	-	2,390	nc		0.0198		0	
Indeno[1,2,3-cd]pyrene	193-39-5	-	1.15	1.15	ca		0.51			4.4E-07
Methylnaphthalene, 1-	90-12-0	4,180	17.6	17.6	ca		0.0221		0	1.3E-09
Methylnaphthalene, 2-	91-57-6	239	-	239	nc		0.0198		0.0001	
Phenanthrene	85-01-8	-	-				0.28			
Pyrene	129-00-0	1,790	-	1,790	nc		1.19		0.0007	

NR 720 Direct-Contact **Exceedance - Hazard - Risk** Calculation Summary from Soil Data

BRRTS #: 02-67-11819 Herriges Oil BP South G-31-1 3"	# of Soil-Concentration Entries: 18	Number of Individual Exceedance 0	(Cumulative) Hazard Index 0.0035	(Cumulative) Cancer Risk 8.0E-07
Bottom-Line: Yes, levels are below direct-contact concern.				

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

[illegible]

NR 720 Direct-Contact **Exceedance** - **Hazard** - **Risk** Calculation Summary from Soil Data

BRRTS #:	# of Soil-Concentration Entries:	18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11619 Herriges Oil BP South G-32-1 3'			0	0.0009	2.8E-07
Bottom-Line:			Yes, levels are below direct-contact concern.		

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

[illegible]

NR 720 Direct-Contact *Exceedance* - *Hazard* - *Risk* Calculation Summary from Soil Data

BRRTS #:	# of Soil-Concentration Entries:	18	Number of Individual Exceedance	(Cumulative) Hazard Index	(Cumulative) Cancer Risk
02-67-11619 HERRIGES OIL BP SOUTH	G-33-1	3	0	0.0009	2.8E-07
Bottom-Line:			Yes, levels are below direct-contact concern.		

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
Naphthalene	91-20-3	178	5.52	5.52	ca		0.0096		0.0001	1.7E-09
Benzo[a]pyrene	50-32-6	17.8	0.115	0.115	ca		0.0142		0.0008	1.2E-07
Acenaphthene	83-32-9	3,590	-	3,590	nc		0.0132		0	
Acenaphthylene	208-96-8	-	-				0.0092			
Anthracene	120-12-7	17,900	-	17,900	nc		0.0073		0	
Benzo[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			8.6E-09
Benzo[g,h,i]perylene	191-24-2	-	-				0.0118			
Benzo[k]fluoranthene	207-08-9	-	11.5	11.5	ca		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			1.2E-07
Fluoranthene	206-44-0	2,390	-	2,390	nc		0.0159		0	
Fluorene	86-73-7	2,390	-	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	4,180	17.6	17.6	ca		0.0101		0	5.7E-10
Methylnaphthalene, 2-	91-67-6	239	-	239	nc		0.0138		0.0001	
Phenanthrene	85-01-8	-	-				0.011			
Pyrene	129-00-0	1,790	-	1,790	nc		0.0129		0	

Synergy Environmental Lab,

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Report Date 18-Mar-21

Project Name HERRIGES OIL BULK PLANT
Project #

Invoice # E39147

Lab Code 5039147A
Sample ID G-22-1
Sample Matrix Soil
Sample Date 3/8/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.5	%			1	5021		3/10/2021	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.064	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene	0.034 "J"	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	0.306	mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	0.76	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene	0.66	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthene	0.88	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	0.294	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	0.283	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene	0.74	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthracene	0.067	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	1.87	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene	0.069	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyrene	0.37	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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	0.99	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene	1.47	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

Project

Lab Code 5039147B

Sample ID G-23-1

Sample Matrix Soil

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	2.55	50	M8270C	3/16/2021	3/17/2021	NJC	1
Acenaphthylene	2.45	mg/kg	0.46	1.75	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	50.0	mg/kg	0.79	3.05	50	M8270C	3/16/2021	3/17/2021	NJC	1
Benzo(a)pyrene	47.0	mg/kg	0.71	2.75	50	M8270C	3/16/2021	3/17/2021	NJC	1
Benzo(b)fluoranthene	53.0	mg/kg	0.495	1.9	50	M8270C	3/16/2021	3/17/2021	NJC	1
Benzo(g,h,i)perylene	26.3	mg/kg	0.59	2.25	50	M8270C	3/16/2021	3/17/2021	NJC	1
Benzo(k)fluoranthene	19.6	mg/kg	0.455	1.75	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)anthracene	5.50	mg/kg	0.71	2.75	50	M8270C	3/16/2021	3/17/2021	NJC	1
Fluoranthene	114	mg/kg	0.455	1.75	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)pyrene	29.5	mg/kg	0.63	2.4	50	M8270C	3/16/2021	3/17/2021	NJC	1
1-Methyl naphthalene	2.22	mg/kg	0.505	1.95	50	M8270C	3/16/2021	3/17/2021	NJC	1
2-Methyl naphthalene	1.39 "J"	mg/kg	0.69	2.65	50	M8270C	3/16/2021	3/17/2021	NJC	1
Naphthalene	2.62	mg/kg	0.48	1.85	50	M8270C	3/16/2021	3/17/2021	NJC	1
Phenanthrene	88.0	mg/kg	0.385	1.5	50	M8270C	3/16/2021	3/17/2021	NJC	1
Pyrene	94.0	mg/kg	0.455	1.75	50	M8270C	3/16/2021	3/17/2021	NJC	1

Project

Lab Code 5039147C

Sample ID G-24-1

Sample Matrix Soil

Sample Date 3/8/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.4	%			1	5021		3/10/2021	NJC	1
Organic										
PAH SIM										
Acenaphthene	0.44	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene	0.263	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	0.269	mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	0.059 "J"	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene	0.064	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthene	0.085	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	0.046	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	0.0258 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene	0.066	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	0.128	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene	0.64	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyrene	0.051	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	4.70	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	1.09	mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene	0.68	mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene	0.99	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene	0.199	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
PVOC										
Benzene	0.061 "J"	mg/kg	0.016	0.062	1	GRO95/8021		3/17/2021	CJR	1
Ethylbenzene	0.159	mg/kg	0.015	0.059	1	GRO95/8021		3/17/2021	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.018	0.071	1	GRO95/8021		3/17/2021	CJR	1
Toluene	0.111	mg/kg	0.016	0.061	1	GRO95/8021		3/17/2021	CJR	1
1,2,4-Trimethylbenzene	8.1	mg/kg	0.013	0.052	1	GRO95/8021		3/17/2021	CJR	1
1,3,5-Trimethylbenzene	2.93	mg/kg	0.017	0.066	1	GRO95/8021		3/17/2021	CJR	1
m&p-Xylene	0.44	mg/kg	0.039	0.15	1	GRO95/8021		3/17/2021	CJR	1
o-Xylene	0.48	mg/kg	0.014	0.055	1	GRO95/8021		3/17/2021	CJR	1

Project Name HERRIGES OIL BULK PLANT

Invoice # E39147

Project #

Lab Code 5039147D

Sample ID G-25-1

Sample Matrix Soil

Sample Date 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	3/16/2021	NJC	1
Acenaphthylene	0.044	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	0.037	mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	0.0289 "J"	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene	0.062	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthene	0.074	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	0.065	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	0.0179 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene	0.0314 "J"	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	0.033 "J"	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene	0.0135 "J"	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyrene	0.057	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	0.126	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	0.192	mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene	0.097	mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene	0.079	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
PVOC										
Benzene	0.046 "J"	mg/kg	0.016	0.062	1	GRO95/8021		3/17/2021	CJR	1
Ethylbenzene	0.069	mg/kg	0.015	0.059	1	GRO95/8021		3/17/2021	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.018	0.071	1	GRO95/8021		3/17/2021	CJR	1
Toluene	0.244	mg/kg	0.016	0.061	1	GRO95/8021		3/17/2021	CJR	1
1,2,4-Trimethylbenzene	0.279	mg/kg	0.013	0.052	1	GRO95/8021		3/17/2021	CJR	1
1,3,5-Trimethylbenzene	0.136	mg/kg	0.017	0.066	1	GRO95/8021		3/17/2021	CJR	1
m&p-Xylene	0.49	mg/kg	0.039	0.15	1	GRO95/8021		3/17/2021	CJR	1
o-Xylene	0.192	mg/kg	0.014	0.055	1	GRO95/8021		3/17/2021	CJR	1

Project Name HERRIGES OIL BULK PLANT

Invoice # E39147

Project #

Lab Code 5039147E

Sample ID G-26-1

Sample Matrix Soil

Sample Date 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	< 0.0132	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	< 0.0073	mg/kg	0.0073	0.028	1	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)fluoranthene	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	< 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)anthracene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	< 0.0091	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)pyrene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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	0.008 "J"	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

Lab Code 5039147F

Sample ID G-27-1

Sample Matrix Soil

Sample Date 3/8/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.3	%			1	5021		3/10/2021	NJC	I
Organic										
PAH SIM										
Acenaphthene	< 0.0132	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	I
Acenaphthylene	0.0124 "J"	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	I
Anthracene	< 0.0073	mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	I
Benzo(a)anthracene	< 0.0158	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	I
Benzo(a)pyrene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	I
Benzo(b)fluoranthene	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	I
Benzo(g,h,i)perylene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	I
Benzo(k)fluoranthene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	I
Chrysene	< 0.0124	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	I
Dibenzo(a,h)anthracene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	I
Fluoranthene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	I
Fluorene	< 0.0094	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	I
Indeno(1,2,3-cd)pyrene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	I
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	I
2-Methyl naphthalene	< 0.0138	mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	I
Naphthalene	< 0.0096	mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	I
Phenanthrene	< 0.0077	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	I
Pyrene	< 0.0091	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	I

Project Name HERRIGES OIL BULK PLANT

Invoice # E39147

Project #

Lab Code 5039147G

Sample ID G-28-1

Sample Matrix Soil

Sample Date 3/8/2021

	Result	Unit	LOD	LOQ	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	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	mg/kg	0.0073	0.028	1	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)fluoranthene	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	< 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)anthracene	< 0.0142	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	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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	0.0103 "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

Lab Code 5039147H

Sample ID G-29-1

Sample Matrix Soil

Sample Date 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	1
Organic										
PAH SIM										
Acenaphthene	0.0145 "J"	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene	0.052	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	0.155	mg/kg	0.0073	0.028	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)anthracene	0.80	mg/kg	0.0158	0.061	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(a)pyrene	0.87	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(b)fluoranthene	1.14	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	0.41	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	0.38	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Chrysene	0.81	mg/kg	0.0124	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
Dibenzo(a,h)anthracene	0.097	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	1.39	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluorene	0.0198 "J"	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyrene	0.51	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	0.0221 "J"	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	0.0198 "J"	mg/kg	0.0138	0.053	1	M8270C	3/16/2021	3/16/2021	NJC	1
Naphthalene	0.0155 "J"	mg/kg	0.0096	0.037	1	M8270C	3/16/2021	3/16/2021	NJC	1
Phenanthrene	0.28	mg/kg	0.0077	0.03	1	M8270C	3/16/2021	3/16/2021	NJC	1
Pyrene	1.19	mg/kg	0.0091	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1

Project

Lab Code 5039147I

Sample ID G-30-1

Sample Matrix Soil

Sample Date 3/8/2021

	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										
PAH SIM										
Acenaphthene	< 0.0132	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene	< 0.0092	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	< 0.0073	mg/kg	0.0073	0.028	1	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)fluoranthene	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	< 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)anthracene	< 0.0142	mg/kg	0.0142	0.055	1	M8270C	3/16/2021	3/16/2021	NJC	1
Fluoranthene	< 0.0091	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)pyrene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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	< 0.0077	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

Lab Code 5039147J

Sample ID G-31-1

Sample Matrix Soil

Sample Date 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)fluoranthene	0.087	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	0.036 "J"	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	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)anthracene	< 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)pyrene	0.043 "J"	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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

Lab Code 5039147K

Sample ID G-32-1

Sample Matrix Soil

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	< 0.0132	mg/kg	0.0132	0.051	1	M8270C	3/16/2021	3/16/2021	NJC	1
Acenaphthylene	< 0.0092	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	< 0.0073	mg/kg	0.0073	0.028	1	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)fluoranthene	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	< 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)anthracene	< 0.0142	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	< 0.0094	mg/kg	0.0094	0.036	1	M8270C	3/16/2021	3/16/2021	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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	< 0.0077	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

Project

Lab Code 5039147L

Sample ID G-33-1

Sample Matrix Soil

Sample Date 3/8/2021

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			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	< 0.0092	mg/kg	0.0092	0.035	1	M8270C	3/16/2021	3/16/2021	NJC	1
Anthracene	< 0.0073	mg/kg	0.0073	0.028	1	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)fluoranthene	< 0.0099	mg/kg	0.0099	0.038	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(g,h,i)perylene	< 0.0118	mg/kg	0.0118	0.045	1	M8270C	3/16/2021	3/16/2021	NJC	1
Benzo(k)fluoranthene	< 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)anthracene	< 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	1
Indeno(1,2,3-cd)pyrene	< 0.0126	mg/kg	0.0126	0.048	1	M8270C	3/16/2021	3/16/2021	NJC	1
1-Methyl naphthalene	< 0.0101	mg/kg	0.0101	0.039	1	M8270C	3/16/2021	3/16/2021	NJC	1
2-Methyl naphthalene	< 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: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

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

Authorized Signature

Michael Ricker

CHAIN OF STUDY RECORD

Synergy**Environmental Lab, Inc.**

Chain # No 40457

Page 1 of 1

Lab I.D. #
QUOTE # :
Project #:
Sampler: (signature) <i>L. T. Powell</i>

www.synergy-lab.net
 1990 Prospect Ct. • Appleton, WI 54914
 920-830-2455 • mrsynergy@wi.twcbc.com

Sample Handling Request

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

☒ Normal Turn Around

Project (Name / Location): *Herriges Oil Bulk Plant South-Kenosha***Analysis Requested****Other Analysis**

Reports To:	Invoice To:
Company <i>METCO</i>	Company <i>METCO</i>
Address	Address
City State Zip <i>La Crosse WI</i>	City State Zip <i>La Crosse WI</i>
Phone <i>608-781-8879</i>	Phone
Email	Email

Lab I.D.	Sample I.D.	Collection Date	Time	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 524.2)	VOC (EPA 8260)	VOC AIR (TO - 15)	8-RCRA METALS	PID/ FID
<i>S039147A</i>	<i>G-22-1</i>	<i>3/8/21</i>	<i>9:30A</i>		<i>1</i>	<i>S</i>	<i>-</i>						<input checked="" type="checkbox"/>										
<i>B</i>	<i>G-23-1</i>		<i>9:40A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>C</i>	<i>G-24-1</i>		<i>9:45A</i>		<i>3</i>		<i>not</i>						<input checked="" type="checkbox"/>										
<i>D</i>	<i>G-25-1</i>		<i>9:50A</i>		<i>3</i>		<i>not</i>						<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>								
<i>E</i>	<i>G-26-1</i>		<i>10:10A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>F</i>	<i>G-27-1</i>		<i>10:20A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>G</i>	<i>G-28-1</i>		<i>10:30A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>H</i>	<i>G-29-1</i>		<i>10:40A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>I</i>	<i>G-30-1</i>		<i>10:50A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>J</i>	<i>G-31-1</i>		<i>11:00A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>K</i>	<i>G-32-1</i>		<i>11:10A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										
<i>L</i>	<i>G-33-1</i>		<i>11:20A</i>		<i>1</i>		<i>-</i>						<input checked="" type="checkbox"/>										

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge, etc.)

Sample Integrity - To be completed by receiving lab.

Method of Shipment: *GC*Temp. of Temp. Blank: _____ °C On Ice: ☒Cooler seal intact upon receipt: ☒ Yes _____ No

Relinquished By: (sign)

Time

Date

Received By: (sign)

Time

Date

Received in Laboratory By: *[Signature]*Time: *8:00*Date: *3/10/21*