

DISCLAIMER: Sampling Plan will be updated/ revised in coordination with Department of Health.

SAMPLE TYPE	METHOD	LOCATIONS	FREQUENCY/DURATION	START DATE(S)	REPORTING
<b>1 SOIL VAPOR SAMPLING</b>					
Soil Vapor Concentrations	Photo-ionization Detector (PID)	Tanks 2-18, 20 - Include background reading at each tank	Daily, 7 days per week for 3 weeks until 9 Jun 21	- 10-12 May 21: Initial PID readings at Tanks 13-16 - 13 May 21: Include Tanks 13-18, 20 - 20 May 21: Include Tanks 2-12	- Excel spreadsheet - April monthly results
Soil Vapor Concentrations	Photo-ionization Detector (PID)	Tanks 11-18, 20 - Include background reading at each tank	Twice per week for 3 weeks (Monday, Thursday) <sup>1</sup> 7 Jul 21: Additional 3 weeks <sup>2</sup> 19 Jul 21: Additional 3 weeks	14 Jun 21 to 2 Jul 21 <sup>1</sup> 6 Jul 21 to 23 Jul 21 <sup>2</sup> 2 Aug 21 to 20 Aug 21	Excel spreadsheet
<b>2 SUMMA CANISTER SAMPLING</b>					
Summa Canister Samples	Method TO-15	Zone 7 sump, SV13S, SV16S, SV17S, SV18S, SV20S, SV20M	- One time - Additional targeted sampling if increased trends in PID readings are observed	- 10 May 21: tunnel air near the collection sump - 11 May 21: SV13S - 13 May 21: SV16S, SV17S, SV18S, SV20S - 14 May 21: SV20M	- Laboratory report with chromatograms - Expedited laboratory turnaround time (TAT) of 7 days
Summa Canister Samples	TO-15 & TO-3 w/ C5-C12	SV17S, SV18S, SV20M	One time	5 Jun 21	- Laboratory report with chromatograms
		SVMP with highest PID readings (e.g., SV15S, SV17S, SV18S, SV20M) and most outer bound probe under the same tanks (SV15D, SV17D, SV18D, SV20D)	Once per month for 6 months	14 Jun 21 to 30 Nov 21	- Expedited laboratory TAT (starts next business day after samples are received)
<b>3 RHMW HEADSPACE MONITORING</b>					
Headspace Monitoring	PID	RHMW01, RHMW01R, RHMW02, RHMW03, RHMW05 - 2 inches in well casing - Breathing zone	Daily, 7 days per week for 3 weeks until 9 Jun 21	- 12 May 21: Initial test at RHMW01R during GW sampling event - 13 May 21: Initial tests at RHMW01R, 02, 03 during GW sampling event - 15 May 21: Begin daily monitoring	Excel spreadsheet
Headspace Monitoring	PID	RHMW01R, RHMW02, RHMW03 - 2 inches in well casing - Breathing zone 23 Jun 21: Include RHMW01, RHMW05	Once per week for one month <sup>1</sup> 7 Jul 21: Additional 3 weeks <sup>2</sup> 19 Jul 21: Additional 3 weeks	14 Jun 21 to 9 Jul 21 <sup>1</sup> 12 Jul 21 to 30 Jul 21 <sup>2</sup> 2 Aug 21 to 20 Aug 21	Excel spreadsheet
<b>4 FUEL PRODUCT GAUGING</b>					
Fuel Product Gauging	Oil/water interface probe	RHMW01R, RHMW02, RHMW03 15 May 21: Include RHMW01 and RHMW05	Daily, 7 days per week for 3 weeks until 9 Jun 21	- 12 May 21: Initial test at RHMW01R during GW sampling event - 13 May 21: Initial tests at RHMW01R, 02, 03 during GW sampling event - 15 May 21: Begin daily monitoring	Excel spreadsheet
Fuel Product Gauging	Bailer	RHMW01R, RHMW02, RHMW03 23 Jun 21: Include RHMW01 (w/o bailer), RHMW05	Daily, 7 days per week	2 Jun 21: begin bailer at 01R, 02, 03 3 Jun 21 to 9 Jun 21: 01R, 02, 03, 05	Excel spreadsheet, photos
			Once per week for one month <sup>1</sup> 7 Jul 21: Additional 3 weeks <sup>2</sup> 19 Jul 21: Additional 3 weeks	14 Jun 21 to 9 Jul 21: 01R, 02, 03 <sup>1</sup> 12 Jul 21 to 30 Jul 21 <sup>2</sup> 2 Aug 21 to 20 Aug 21	
<b>5 GROUNDWATER SAMPLING</b>					
Groundwater Sampling	TPH-g/d/o, BTEX, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene - Sample w/ bladder pump	RHMW01R, RHMW02, RHMW03	Every Monday, Wednesday, and Friday for 3 weeks until 11 Jun 21	- 12-13 May 21: 1st sample collection - 19-20 May 21: 2nd sample collection - 24 May : Initiate three times a week sampling	- Laboratory report with chromatograms - Expedited laboratory TAT
Groundwater Sampling	TPH-g/d/o, BTEX, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene - Sample w/ bailer, no purging prior to sampling; one weekly event with duplicate samples from bladder pump	RHMW01R, RHMW02, RHMW03	Monday, Wednesday, Friday until 11 Jun 21	2 Jun 21 to 11 Jul 21: begin bailer samples	- Laboratory report with chromatograms - Expedited laboratory TAT - DOH request to sample from uppermost portion of the water column without prior purging to ensure maximum possibility of identifying initial contaminant migration
			Once per week for one month <sup>1</sup> 7 Jul 21: Additional 3 weeks <sup>2</sup> 19 Jul 21: Additional 3 weeks	14 Jun 21 to 9 Jul 21 <sup>1</sup> 12 Jul 21 to 30 Jul 21 <sup>2</sup> 2 Aug 21 to 20 Aug 21	
<b>6 DRINKING WATER SAMPLING</b>					
Drinking Water Sampling	TPH-g/d/o, BTEX, 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene	RHMW2254-01 - pre-chlorination from spigot	Once per week for one month <sup>1</sup> 7 Jul 21: Additional 3 weeks <sup>2</sup> 19 Jul 21: Additional 3 weeks	14 Jun 21 to 9 Jul 21 <sup>1</sup> 12 Jul 21 to 30 Jul 21 <sup>2</sup> 2 Aug 21 to 20 Aug 21	- Laboratory report with chromatograms - Expedited Laboratory TAT

**AVERAGE SOIL VAPOR CONCENTRATION READINGS**

DATE	SV02 S	SV02 M	SV02 D	SV03 S	SV03 M	SV03 D	SV04 S	SV04 M	SV04 D	SV05 S	SV05 M	SV05 D	SV06 S	SV06 M	SV07 S	SV07 M	SV07 D	SV08 S	SV08 M	SV08 D	SV09 S	SV09 M	SV09 D	SV10 S	SV10 M/D	SV11 S	SV11 M/D	SV12 S	SV12 M	SV12 D	SV13 S	SV13 M	SV13 D	SV14 S	SV14 M	SV14 D	SV15 S	SV15 M	SV15 D	SV16 S	SV16 M	SV16 D	SV17 S	SV17 M	SV17 D	SV18 S	SV18 D	SV20 S	SV20 M	SV20 D
4/22/2021	241	234	248	180	175	446	149	157	186	187	416	1170	3993	243	293	235	477	263	238	227	222	223	367	269	242	259	257	304	368	346	770	693	550	404	361	475	175	NC2	170	207	185	191	289	320	363	1009	1184	223	173	184

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

Notes:  
 \* Air compressor used to clear obstruction prior to collecting sample  
 \*\* "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.  
 NC - Not collected  
 NC1 - Not collected due to tank maintenance  
 NC2 - Not collected due to obstruction in vapor line





Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 2.a. Soil Vapor Concentrations at Tanks 2-18 and 20  
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9/27/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	87	104	186	160	115	152	3,057	3,356	2,448
9/30/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	452	436	719	445	595	612	5,018	4,811	3,327
10/4/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	227	183	761	337	137	148	2,213	4,020	1,293
10/7/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	460	493	282	190	101	148	7,830	6,561	7,453
10/12/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	136	172	752	498	127	144	7,191	6,690	2,816
10/14/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	468	495	1,016	807	911	2,342	4,638	3,947	8,821
10/18/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	112	147	67	664	77	80	1,221	1,262	905
10/21/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	98	66	111	303	532	811	4,196	NC1	5,894
10/21/2021	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	155,000 <sup>(4)</sup>	-	18,100 <sup>(4)</sup>

Notes:  
<sup>1</sup> - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.  
<sup>2</sup> - Soil vapor concentration measured using a ppmv PID.  
<sup>3</sup> - Epoxy coatings being applied in the area near Tank 17. Epoxy coating contain volatile organic compounds which can be detected by the monitoring equipment used to collect SVM samples.  
<sup>4</sup> - Solvent odor from work occurring in the area near Tank 18 caused elevated background PID readings.  
 \* Air compressor used to clear obstruction prior to collecting sample  
 \*\* - Estimated value - Calibration check observed an approximately 40% low bias reading.  
 \*\*\* - Estimated value - Inadvertent early termination of PID reading.  
 NC - Not collected  
 NC1 - Not collected due to tank maintenance  
 NC2 - Not collected due to obstruction in vapor line  
 NC3 - Not collected - monitoring vault potentially compromised by release. Replacing tubing and cleaning valves. Sampling to begin 14 May  
 NC4 - Not collected due to a broken valve/fitting. A replacement valve is being pursued.  
 NC5 - Not collected - not required by the DOH Transition Plan.  
 Soil vapor concentration readings are reported in parts per billion by volume (ppbv).

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01, RHMW01R, RHMW02, RHMW03, and RHMW05 - Headspace and Fuel Product Gauging

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DATE	RHMW01						RHMW01R						RHMW02						RHMW03						RHMW05					
	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS
	(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)		(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)	
5/12/2021	NC1	NC1	NC1	NC1	NC1	NC1	1553	2.2	0.1	83.69	No	NA	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/13/2021	NC1	NC1	NC1	NC1	NC1	NC1	1150	1.3	0.3	83.85	No	NA	1000	1.1	0.1	86.77	No	NA	1030	0.8	0.1	103.02	No	NA	NC1	NC1	NC1	NC1	NC1	NC1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/15/2021	1111	5.158	3.902	83.97	No	NA	1103	5.158	0.378	83.76	No	NA	1123	4.833	0.594	86.66	No	NA	1128	3.985	0.413	102.88	No	NA	1048	5.094	0.345	83.38	No	NA
5/16/2021	1105	4.463	3.508	83.87	No	NA	1110	4.463	0	83.63	No	NA	1123	4.054	0	86.57	No	NA	1143	3.548	0.036	102.79	No	NA	1049	4.753	0	83.24	No	NA
5/17/2021	1310	5.415	5.100	83.96	No	NA	1304	5.170	0	83.73	No	NA	1328	7.511	0.174	86.62	No	NA	1336	3.314	0.280	102.83	No	NA	1318	5.601	0.140	83.33	No	NA
5/18/2021	1307	2.53	2.15	83.95	No	NA	1304	2.53	0	83.74	No	NA	1315	5.056	0	86.66	No	NA	1324	0.965	0	102.87	No	NA	1256	2.174	0	83.39	No	NA
5/19/2021	0856	2.482	2.165	83.99	No	NA	0859	2.482	0.200	83.78	No	NA	0907	1.926	0.270	86.68	No	NA	0917	1.149	0.105	102.94	No	NA	0848	2.556	0.260	83.48	No	NA
5/19/2021	NC1	NC1	NC1	NC1	NC1	NC1	1400	0.3	0.0	83.74	No	NA	1600	0.1	0.0	86.67	No	NA	1620	0.1	0.0	102.91	No	NA	NC1	NC1	NC1	NC1	NC1	NC1
5/20/2021	0939	1.476	1.290	84.00	No	NA	0942	1.476	0.204	NM	NA	NA	0947	1.040	0.180	NM	NA	NA	1128	0.811	0.068	NM	NA	NA	0931	1.622	0.130	83.42	No	NA
5/20/2021	NC1	NC1	NC1	NC1	NC1	NC1	1130	1.7	0.2	83.81	No	NA	1015	0.7	0.0	86.74	No	NA	1210	1.1	0.0	102.93	No	NA	NC1	NC1	NC1	NC1	NC1	NC1
5/21/2021	0724	1.562	1.378	84.03	No	NA	0722	1.562	NM	NM	NA	NA	1056	1.339	0.202	86.74	No	NA	1048	0.689	0.181	102.95	No	NA	0717	1.456	0.080	83.44	No	NA
5/21/2021	NC1	NC1	NC1	NC1	NC1	NC1	1500	0.2	0.4	83.81	No	NA	1540	0.1	0.1	86.72	No	NA	1622	0.1	0	102.94	No	NA	NC1	NC1	NC1	NC1	NC1	NC1
5/22/2021	0745	3.440	3.202	84.05	No	NA	0750	3.440	0.227	83.84	No	NA	0945	3.386	0.590	86.73	No	NA	1246	4.060	0.507	102.97	No	NA	0734	3.525	0.152	83.44	No	NA
5/23/2021	0626	1.322	1.188	83.96	No	NA	0630	1.322	0.295	83.75	No	NA	0737	0.948	0.063	86.66	No	NA	0943	0.595	0.113	102.86	No	NA	0620	1.419	0.146	83.36	No	NA
5/24/2021	0800	1.333	1.171	83.89	No	NA	0804	1.333	0	83.66	No	NA	0905	1.076	0.140	86.59	No	NA	1129	2.228	0.370	102.87	No	NA	0752	1.395	0	83.27	No	NA
5/24/2021	NC1	NC1	NC1	NC1	NC1	NC1	1100	0.1	0.0	83.73	No	NA	1245	0.3	0.1	86.68	No	NA	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/25/2021	0842	1.023	0.829	83.96	No	NA	0844	1.023	0.096	83.74	No	NA	1001	0.945	16.19 (see note)	86.65	No	NA	1153	2.09	0.552	102.88	No	NA	0835	1.074	0.113	83.36	No	NA
5/25/2021	-	-	-	-	-	-	-	-	-	-	-	-	1251	1.291	0.295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1
5/26/2021	0724	1.898	1.697	83.95	No	NA	0832	1.0	0.1	83.77	No	NA	1038	3.2	0.3	86.70	No	NA	1400	0.1	0.0	102.93	No	NA	0717	1.983	0.055	83.34	No	NA
5/27/2021	1008	3.978	2.650	84.03	No	NA	1013	3.978	0	83.79	No	NA	1125	5.484	14.43 (see note)	86.71	No	NA	1324	0.400	0	102.93	No	NA	1002	5.871	0	83.43	No	NA
5/27/2021	-	-	-	-	-	-	-	-	-	-	-	-	1125	-	0.156	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5/28/2021	0912	3.146	2.117	84.03	No	NA	0830	0.6	0.0	83.83	No	NA	1100	2.5	0.3	86.73	No	NA	1405	0.4	0.0	102.95	No	NA	0907	3.167	0	83.42	No	NA
5/29/2021	0747	3.188	2.736	84.01	No	NA	0747	3.188	0.590	83.78	No	NA	0924	2.890	0.640	86.69	No	NA	1142	2.451	0.746	102.93	No	NA	0738	2.992	0.056	83.42	No	NA
5/30/2021	0646	1.143	1.029	84.02	No	NA	0647	1.143	0.064	83.81	No	NA	0745	1.930	0.335	86.72	No	NA	0954	1.372	0.881	102.98	No	NA	0638	1.205	0	83.42	No	NA
5/31/2021	1103	1.006	0.668	84.02	No	NA	0805	0.0	0.0	83.82	No	NA	0939	0.0	0.0	86.74	No	NA	1119	0.1	0.0	102.96	No	NA	1058	0.955	0.0	83.42	No	NA
6/1/2021	0641	0.850	0.605	84.02	No	NA	0639	0.850	0.200	83.81	No	NA	0738	0.776	0.800	86.77	No	NA	0943	0.428	0.212	102.97	No	NA	0629	1.003	0	83.44	No	NA
6/2/2021	0608	1.008	0.580	84	No	NA	0833	0.2	0.1	83.84	No	NA	1017	0.3	0.1	86.79	No	NA	1154	0.2	0.0	103.04	No	NA	0602	1.05	0	83.4	No	NA
6/3/2021	0839	2.507	1.855	84.04	No	NA	0837	2.507	0.925	83.83	No	NA	0939	2.434	0.897	86.74	No	NA	1136	2.784	1.295	102.83	No	NA	0819	2.369	0.092	83.45	No	NA
6/4/2021	0854	1.202	0.831	83.98	No	NA	0930	0.1	0.2	83.82	No	NA	1050	0.7	0.2	86.73	No	NA	1157	0.6	0.2	103.17	No	NA	0842	1.155	0.184	83.39	No	NA
6/5/2021	1309	0.633	0.277	83.89	No	NA	1310	0.633	0	83.67	No	NA	1415	0.292	0	86.60	No	NA	1601	0	0	102.95	No	NA	1253	0.723	0	83.25	No	NA
6/6/2021	0718	0.686	0.574	83.97	No	NA	0723	0.686	0.193	83.77	No	NA	0837	0.582	0.237 (see note)	86.66	No	NA	1050	0.466	0.233	102.84	No	NA	0703	0.836	0	83.36	No	NA
6/7/2021	0805	0.677	0.497	84.00	No	NA	0804	0.0	0.0	83.72	No	NA	0918	0.2	0.4	86.68	No	NA	1020	0.2	0.0	103.00	No	NA	0753	0.743	0	83.37	No	NA
6/8/2021	0742	0.814	0.709	83.96	No	NA	0750	0.814	0.285	83.78	No	NA	0855	1.321	0.464	86.69	No	NA	1117	1.818	7.300	102.85	No	NA	0731	0.950	0	83.36	No	NA
6/9/2021	0814	0.889	0.737	84.03	No	NA	0945	0.1	0.2	83.81	No	NA	1044	0.1	0.0	86.71	No	NA	1131	0.0	0.0	102.99	No	NA	0801	1.042	0	83.41	No	NA
6/11/2021	NC1	NC1	NC1	NC1	NC1	NC1	0800	0.0	0.2	83.82	No	NA	0900	0.2	0.0	86.74	No	NA	0955	0.0	0.0	102.97	No	NA	NC1	NC1	NC1	NC1	NC1	NC1
6/17/2021	NC2	NC2	NC2	NC2	NC2	NC2	0945	0.0	0.0	83.93	No	NA	1045	0.0	0.2	86.84	No	NA	1206	0.0	0.0	103.07	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
6/24/2021	NC2	NC2	NC2	NC2	NC2	NC2	1000	0.2	0.1	83.84	No	NA	1100	0.0	0.0	86.76	No	NA	1200	0.3	5.1	102.98	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
6/28/2021	0926	1.694	1.483	84.08	No	NA	0923	1.699	0.475	83.87	No	NA	0948	1.485	3.354	86.76	No	NA	1058	1.280	11.000	102.98	No	NA	0902	1.683	0	83.5	No	NA
6/30/2021	NC2	NC2	NC2	NC2	NC2	NC2	0843	0.3	0.2	83.89	No	NA	1018	0.0	0.4	86.70	No	NA	1258	0.0	0.0	103.03	No	NA</						

Red Hill Bulk Fuel Storage Facility

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2.c. Monitoring Wells: RHMW01, RHMW01R, RHMW02, RHMW03, and RHMW05 - Headspace and Fuel Product Gauging

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DATE	RHMW01						RHMW01R						RHMW02						RHMW03						RHMW05					
	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	DTW (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	DTW (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	DTW (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	DTW (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)	TIME	AMBIENT (ppmv)	HEADSPACE (ppmv)	DTW (ft btoc)	PRODUCT? (Yes/No)	THICKNESS (ft)
8/5/2021	0710	0.11 (see note)	0.038 (see note)	NC3	NC3	NC3	0955	0.0	0.0	84.03	No	NA	1100	0.0	0.3	86.93	No	NA	1203	0.0	0.6	103.16	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
8/9/2021	0735	0.315	0.318	NC3	NC3	NC3	0727	0.315	0.115	83.95	No	NA	0740	0.256	1.276 (see note)	86.48	No	NA	0806	0.198	0.054	103.90	No	NA	0714	0.278	0	83.58	No	NA
8/12/2021	NC2	NC2	NC2	NC2	NC2	NC2	0933	0.0	0.0	84.07	No	NA	1035	0.0	0.8	86.96	No	NA	1142	0.0	0.1	103.17	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
8/16/2021	1139	0.418	0.386	NC3	NC3	NC3	1142	0.419	0.423	84.11	No	NA	1222	0.321	0.214 (see note)	86.98	No	NA	1210	0.338	0	103.22	No	NA	1127	0.407	0	83.77	No	NA
8/19/2021	NC2	NC2	NC2	NC2	NC2	NC2	0950	0.1	0.2	84.02	No	NA	1120	0.2	0.3	86.95	No	NA	1220	0.1	0.1	103.18	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
8/23/2021	1515	0.795	0.746	NC3	NC3	NC3	1520	0.800	0	83.90	No	NA	1540	0.773	22.640	86.83	No	NA	1612	0.834	0.113	103.04	No	NA	1450	0.799	0	83.51	No	NA
8/26/2021	NC2	NC2	NC2	NC2	NC2	NC2	0950	0.0	0.0	84.01	No	NA	1117	0.0	0.2	86.88	No	NA	1225	0.0	2.0	103.11	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
8/30/2021	1051	1.032	0.93	NC3	NC3	NC3	1054	1.027	0.500	83.99	No	NA	1104	1.062	0.362 (see note)	86.91	No	NA	1112	1.156	0.215	103.11	No	NA	1044	0.976	0	83.56	No	NA
9/1/2021	NC2	NC2	NC2	NC2	NC2	NC2	0930	0.0	1.4	84.09	No	NA	1042	0.0	0.2	86.97	No	NA	1145	0.0	0.2	103.17	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
9/7/2021	1210	0.135	0.107	NC3	NC3	NC3	1201	0.131	0 (see note)	84.00	No	NA	1222	0.061	0.137 (see note)	86.93	No	NA	1238	0.02	0.245	103.24	No	NA	1150	0.106	0	83.64	No	NA
9/8/2021	NC2	NC2	NC2	NC2	NC2	NC2	0935	0.0	0.1	84.09	No	NA	1125	0.0	0.4	86.97	No	NA	1305	0.0	0.0	103.10	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
9/13/2021	1058	0.195	0.181	NC3	NC3	NC3	1055	0.187	0	83.91	No	NA	1116	0.137	1.03 (see note)	86.84	No	NA	1129	0.108	0.157	103.07	No	NA	1040	0.152	0	83.52	No	NA
9/15/2021	NC2	NC2	NC2	NC2	NC2	NC2	1005	0.1	0.1	84.03	No	NA	1300	0.1	1.2	86.89	No	NA	1357	0.1	0.1	103.16	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
9/20/2021	NC	NC	NC	NC3	NC3	NC3	0857	0.412	0	83.99	No	NA	0908	0.061	1.241	86.95	No	NA	1002	0.030	0.049	103.3	No	NA	0850	0.135	0	83.63	No	NA
9/22/2021	NC2	NC2	NC2	NC2	NC2	NC2	0952	0.1	0.1	83.98	No	NA	1125	0.1	0.4	86.88	No	NA	1240	0.0	0.0	103.12	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
9/23/2021	0938	0.267	0.207	NC3	NC3	NC3	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC	NC
9/27/2021	0802	0.120	0.125	NC3	NC3	NC3	0801	0.120	0 (see note)	84.07	No	NA	0810	0.068	0.868 (see note)	87.01	No	NA	0820	0.057	0.157	103.17	No	NA	0747	0.105	0	83.64	No	NA
9/29/2021	NC2	NC2	NC2	NC2	NC2	NC2	0952	0.0	0.0	84.11	No	NA	1100	0.0	0.3	86.94	No	NA	1140	0.0	0.0	103.14	No	NA	NC2	NC2	NC2	NC2	NC2	NC2
10/4/2021	1524	0.956	0.952	NC3	NC3	NC3	1520	0.997	0	83.93	No	NA	1530	0.459	0	86.89	No	NA	1552	0.060	0	103.12	No	NA	1510	1.231	0	83.52	No	NA
10/6/2021	NC2	NC2	NC2	NC2	NC2	NC2	1000	0.0	0.1	84.06	No	NA	1110	0.1	1.9	86.98	No	NA	1245	0.0	0.1	103.18	No	NA	0850	0.0	0.0	83.68	No	NA
10/12/2021	1211	0.139	0.129	NC3	NC3	NC3	1219	0.140	0.093	84.11	No	NA	1228	0.078	0	87.03	No	NA	1330	0.142	0.042	103.19	No	NA	1206	0.125	0	83.74	No	NA
10/13/2021	NC2	NC2	NC2	NC2	NC2	NC2	1030	0.1	0.2	84.09	No	NA	1140	0.1	1.2	87.04	No	NA	1240	0.2	0.1	103.22	No	NA	0905	0.1	0.1	83.71	No	NA
10/20/2021	1028	0.0	0.0	84.37	No	NA	1059	0.0	0.1	84.14	No	NA	1220	0.0	0.0	87.04	No	NA	1348	0.0	0.0	103.22	No	NA	0857	0.0	0.0	83.78	No	NA

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

NA = Not applicable

NM = No measurement taken, due to equipment installed in well.

ppmv = parts-per-million, volume

NC - Not collected

NC1 - Not collected due to headspace and fuel product gauging occurring only where groundwater sampling was being conducted.

NC2 - Not collected - monitoring well not being sampled for groundwater in the DOH Transition Plan.

NC3 - Fuel product gauging not conducted at RHMW01 per email correspondence from DOH on 7/27/2021

Notes:

5/25/2021: Initial headspace reading at RHMW02 was unusually high. No signs of fuel product (sheen or odor) were observed during fuel product gauging. Returned to verify headspace reading and it was significantly lower, as shown in the second set of results.

5/27/2021: Initial headspace reading at RHMW02 was ~14.43 ppmv, but dropped to 0.156 ppmv. No fuel product measured.

6/6/2021: Immediate headspace reading was 3.316 ppmv, but dropped quickly to value recorded.

7/12/2021 Strong background chemical odor related to contractor work at Tank 13.

7/26/2021: Initial headspace reading was ~11.33 ppmv, but dropped quickly to 0.483 ppmv. No fuel product measured.

8/5/2021: Headspace and breathing zone PID readings taken at RHMW01 due to inadvertently being excluded on 8/2/2021.

8/9/2021: Initial headspace reading was ~22.35 ppm, but dropped quickly to value recorded.

8/16/2021: Initial headspace reading was 7.621 ppm, but dropped quickly to value recorded.

8/30/2021: Initial headspace reading was 5.032 ppm, but dropped to value recorded.

9/7/2021: Initial headspace reading at RHMW01R was 0.910 ppm, but dropped to value recorded. Initial headspace reading at RHMW02 was 4.521 ppm, but dropped to value recorded.

9/13/2021: Initial headspace reading at RHMW01R was ~14.1 ppm, but dropped to value recorded.

9/27/2021: Initial headspace reading at RHMW01R was 0.600 ppm, but dropped to value recorded. Initial headspace reading at RHMW02 was 5.806 ppm, with strong sulfur odor, but dropped to value recorded.

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

Additional Sampling: Headspace and Fuel Product Gauging

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

**Additional Sampling 09/29/2021-10/04/2021**

Well Name	Date	TIME	AMBIENT	HEADSPACE	DTW	PRODUCT?	THICKNESS
			(ppmv)	(ppmv)	(ft btoc)	(Yes/No)	(ft)
RHMW05	9/29/2021	8:50	0.0	0.0	83.66	No	NA
RHMW19	9/30/2021	9:05	0.0	0.0	427.30	No	NA
RHMW10	9/30/2021	11:17	0.0	0.0	478.33	No	NA
RHMW09	9/30/2021	12:50	0.0	0.0	378.32	No	NA
RHMW08	9/30/2021	14:35	0.0	0.0	293.14	No	NA
RHMW04	10/1/2021	8:25	0.0	9.0 <sup>(1)</sup>	294.59	No	NA
RHMW06	10/1/2021	10:00	0.0	0.0	241.76	No	NA
RHMW16	10/1/2021	11:25	0.0	0.0	202.46	No	NA
OWDFMW01	10/1/2021	12:38	0.0	0.0	120.70	No	NA
RHMW12A	10/4/2021	9:04	0.0	0.1	221.41	No	NA

Notes:

DTW = Depth-to-water

ft = feet

ft btoc = feet below top of casing

NA = Not applicable

ppmv = parts-per-million, volume

<sup>1</sup> - Ants around RHMW04. Team sprayed isopropyl alcohol in order to get ants off lid. Reading was high due to residual alcohol.

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96179	96188	96179	96179	96188	96179						
		Sample ID		ERH1363	ERH1365	ERH1367	ERH1362	ERH1364	ERH1366						
		Collected		5/12/2021	5/13/2021	5/13/2021	5/12/2021	5/13/2021	5/13/2021						
		Sampling Method <sup>3,4</sup>		Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)	RHMW02 2018-2021 Historical Ranges (min/max)	RHMW03 2018-2021 Historical Ranges (min/max)	Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q			
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.4	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95.0	<18.0	<18.0	ug/L	<18.0 U	100.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	150.0	380.0	ug/L	180.0 J	1600.0 J	200.0 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67.0	260.0	690.0	<25.0	<300.0	ug/L	<300.0 U	360.0 J	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330.0	<300.0	310.0	ug/L	<300.0 U	240.0 J	220.0 J	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52.0	<0.025	<0.10	ug/L	<0.10 U	33	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51.0	<0.025	<0.10	ug/L	<0.10 U	24	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32.0	98.0	<0.025	<0.10	ug/L	<0.10 U	59	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #							96269	96282	96282	96269	96282	96282	
		Sample ID							ERH1370	ERH1372	ERH1374	ERH1369	ERH1371	ERH1373	
		Collected							5/19/2021	5/20/2021	5/20/2021	5/19/2021	5/20/2021	5/20/2021	
		Sampling Method <sup>3,4</sup>							Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	
Final results provided (validation completed)		Sample Type							Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank	
		Location							RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.4	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95.0	<18.0	<18.0	ug/L	<18.0 U	37.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	150.0	380.0	ug/L	210.0 J	1700.0	170.0 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67.0	260.0	690.0	<25.0	<300.0	ug/L	<300.0 U	340.0	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330.0	<300.0	310.0	ug/L	<300.0 U	250.0 J	210.0 J	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52.0	<0.025	<0.10	ug/L	<0.10 U	21	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51.0	<0.025	<0.10	ug/L	<0.10 U	9.5	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32.0	98.0	<0.025	<0.10	ug/L	<0.10 U	52	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96320	96320	96343	96320	96320	96343	96363	96363	96363	96363	96363	96363	96410	96410	96410	96410	96410	96410	96410		
		Sample ID		ERH1376	ERH1378	ERH1380	ERH1375	ERH1377	ERH1379	ERH1382	ERH1384	ERH1386	ERH1381	ERH1383	ERH1385	ERH1388	ERH1390	ERH1392	ERH1387	ERH1389	ERH1391			
		Collected		5/24/2021	5/24/2021	5/25/2021	5/24/2021	5/24/2021	5/25/2021	5/26/2021	5/26/2021	5/26/2021	5/26/2021	5/26/2021	5/26/2021	5/28/2021	5/28/2021	5/28/2021	5/28/2021	5/28/2021	5/28/2021	5/28/2021		
		Sampling Method <sup>3,4</sup>		Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow		
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank			
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03			
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)	RHMW02 2018-2021 Historical Ranges (min/max)	RHMW03 2018-2021 Historical Ranges (min/max)	Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	0.4	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	95.0	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	80.0	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350.0	1500.0	ug/L	310.0 J	1500.0	160.0 J	-	-	-	210.0 J	1600	<300.0 U	-	-	-	180.0 J	1400.0 J	180.0 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67.0	260.0	ug/L	<300.0 U	360.0	<300.0 U	-	-	-	<300.0 U	380.0	-	-	-	<300.0 U	210.0 J	<300.0 U	-	-	-	-
TPH-o	500	-	<40.0	<300.0	330.0	ug/L	<300.0 U	170.0 J	<300.0 U	-	-	-	<300.0 U	<300.0 U	<300.0 U	-	-	-	<300.0 U	190.0 J	180.0 J	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-	-	<300.0 U	<300.0 U	-	-	-	<300.0 U	<300.0 U	<300.0 U	-	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	ug/L	<0.10 U	22.0	<0.10 U	-	-	-	<0.10 U	19	<0.10 U	-	-	-	<0.10 U	17	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	ug/L	<0.10 U	11.0 J	<0.10 U	-	-	-	<0.10 U	11	<0.10 U	-	-	-	<0.10 U	7.0	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32.0	ug/L	<0.10 U	47.0	<0.10 U	-	-	-	<0.10 U	39	<0.10 U	-	-	-	<0.10 U	35	<0.10 U	-	-	-

Notes:  
<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.  
<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.  
<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.  
<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.  
 J - estimated value  
 U - nondetect value  
 ID - identification  
 TPH-g - total petroleum hydrocarbons gasoline  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #							96410							96438							96463						
		Sample ID							ERH1394							ERH1400							ERH1406						
		Collected							5/31/2021							6/2/2021							6/4/2021						
		Sampling Method <sup>3,4</sup>							Low-Flow							Bailer							Bailer						
Final results provided (validation completed)		Sample Type							Primary							Primary							Primary						
		Location							RHMW01R							RHMW02							RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q				
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U				
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U				
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U				
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.4	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U				
TPH-g	300	-	<18.0	<18.0	<18.0	95.0	<18.0	<18.0	ug/L	<18.0 U	81.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	38.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	27.0	<18.0 U	<18.0 U				
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	150.0	380.0	ug/L	200.0 J	1300.0	180.0 J	-	-	-	270.0 J	2000.0	260.0 J	-	-	-	270.0 J	1500.0	330.0	-				
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67.0	260.0	690.0	<25.0	<300.0	ug/L	<300.0 U	330.0	<300.0 U	-	-	-	<300.0 U	290 J	<300.0 U	-	-	-	<300.0 U	390.0	<300.0 U	-				
TPH-o	500	-	<40.0	<300.0	<300.0	330.0	<300.0	310.0	ug/L	<300.0 U	180.0 J	180.0 J	-	-	-	160 J	300 J	330	-	-	-	200.0 J	370.0	580.0 <sup>2</sup>	-				
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-	-	<300.0 U	<300.0 U	<300.0 U	-	-	-	<300.0 U	<300.0 U	<300.0 U	-				
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52.0	<0.025	<0.10	ug/L	<0.10 U	14	<0.10 U	-	-	-	<0.10 U	20	<0.10 U	-	-	-	<0.10 U	12	<0.10 UJ	-				
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51.0	<0.025	<0.10	ug/L	<0.10 U	7.0	<0.10 U	-	-	-	<0.10 U	12	<0.10 U	-	-	-	<0.10 U	2.8	<0.10 UJ	-				
Naphthalene	17	-	<0.10	0.19	32.0	98.0	<0.025	<0.10	ug/L	<0.10 U	29	<0.10 U	-	-	-	<0.10 U	42	<0.10 U	-	-	-	<0.10 U	26	<0.10 UJ	-				

Notes:  
<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.  
<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.  
<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.  
<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.  
 J - estimated value  
 U - nondetect value  
 ID - identification  
 TPH-g - total petroleum hydrocarbons gasoline  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96472	96472	96472	96472	96472	96472	96472	96524	96524	96524	96524	96524	96524	96548	96548	96548	96548	96548	96548	
		Sample ID		ERH1412	ERH1414	ERH1416	ERH1411	ERH1413	ERH1415	ERH1418	ERH1420	ERH1422	ER1417	ERH1419	ERH1421	ERH1424	ERH1428	ERH1426	ERH1423	ERH1427	ERH1425		
		Collected		6/7/2021	6/7/2021	6/7/2021	6/7/2021	6/7/2021	6/7/2021	6/9/2021	6/9/2021	6/9/2021	6/9/2021	6/9/2021	6/9/2021	6/11/2021	6/11/2021	6/11/2021	6/11/2021	6/11/2021	6/11/2021	6/11/2021	
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank		
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03		
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)	RHMW02 2018-2021 Historical Ranges (min/max)	RHMW03 2018-2021 Historical Ranges (min/max)	Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 UJ	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 UJ	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 UJ	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	0.4	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 UJ	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	95.0	ug/L	<18.0 U	33.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	60.0	<18.0 UJ	<18.0 U	<18.0 U	<18.0 U	<18.0 U	47.0	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350.0	1500.0	ug/L	220.0 J	1900.0	430.0	-	-	-	230.0 J	1900.0	370.0	-	-	-	210.0 J	2100.0	260.0 J	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67.0	260.0	ug/L	<300.0 U	400.0	<300.0 U	-	-	-	<300.0 U	<300.0 U	<300.0 U	-	-	-	<300.0 U	250.0 J	<300.0 U	-	-
TPH-o	500	-	<40.0	<300.0	330.0	ug/L	320.0	320.0	840.0 <sup>2</sup>	-	-	-	190.0 J	240.0 J	550.0 <sup>2</sup>	-	-	-	<300.0 U	410.0	370.0	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	330.0	ug/L	<300.0 U	<300.0 U	350.0	-	-	-	<300.0 U	<300.0 U	200.0 J	-	-	-	<300.0 U	<300.0 U	<300.0 U	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	ug/L	<0.10 U	19	<0.10 UJ	-	-	-	<0.10 UJ	12 J	<0.10 UJ	-	-	-	<0.10 U	14	<0.10 U	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	ug/L	<0.10 U	14	<0.10 UJ	-	-	-	<0.10 UJ	7.2 J	<0.10 UJ	-	-	-	<0.10 U	6.0	<0.10 U	-	-
Naphthalene	17	-	<0.10	0.19	32.0	ug/L	<0.10 U	43	<0.10 UJ	-	-	-	<0.10 UJ	24 J	<0.10 UJ	-	-	-	<0.10 U	26	<0.10 U	-	-

Notes:  
<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.  
<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.  
<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.  
<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.  
 J - estimated value  
 U - nondetect value  
 ID - identification  
 TPH-g - total petroleum hydrocarbons gasoline  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96623	96623	96623	96623	96623	96623						
		Sample ID		ERH1440	ERH1442	ERH1444	ERH1439	ERH1441	ERH1443						
		Collected		6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021	6/17/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.4	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95.0	<18.0	<18.0	ug/L	<18.0 U	23.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	150.0	380.0	ug/L	240.0 J	2000.0	220.0 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67.0	260.0	690.0	<25.0	<300.0	ug/L	<300.0 U	740.0	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330.0	<300.0	310.0	ug/L	170.0 J	350.0	330.0	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	150.0 J	160.0 J	200.0 J	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52.0	<0.025	<0.10	ug/L	0.43	19	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51.0	<0.025	<0.10	ug/L	<0.10 U	8.3	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32.0	98.0	<0.025	<0.10	ug/L	<0.10 U	33	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96682	96682	96682	96682	96682	96682						
		Sample ID		ERH1448	ERH1450	ERH1452	ERH1447	ERH1449	ERH1451						
		Collected		6/24/2021	6/24/2021	6/24/2021	6/24/2021	6/24/2021	6/24/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation pending)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
Final results provided (validation completed)		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	52	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	160 J	1400	150 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	150 J	470	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	<300.0 U	<300.0 U	170 J	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	<0.10 U	24	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	17	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	54	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event	SDG #		96682	96682	96682	96682
	Sample ID		ERH1448	ERH1450	ERH1452	ERH1454
	Collected		6/24/2021	6/24/2021	6/24/2021	6/24/2021
	Sampling Method <sup>1,2</sup>		Bailer	Bailer	Bailer	-
Final results provided (validation pending)	Sample Type		Primary	Primary	Primary	Primary
	Location		RHMW01R	RHMW02	RHMW03	RHSF
SVOC - Cindy Complete	Screening Criteria	Units	Result Q	Result Q	Result Q	Result Q
1,2,4-Trichlorobenzene	70	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,2-Dichlorobenzene	10	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,3-Dichlorobenzene	5.0	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,4-Dichlorobenzene	5.0	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
1,4-Dioxane	#N/A	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U
1-Methylnaphthalene	10	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4,5-Trichlorophenol	17	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4,6-Trichlorophenol	7.1	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4-Dichlorophenol	0.3	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4-Dimethylphenol	#N/A	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4-Dinitrophenol	40	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4-Dinitrotoluene	0.25	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,6-Dinitrotoluene	0.052	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Chloronaphthalene	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Chlorophenol	0.18	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methylnaphthalene	10	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Methylphenol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Nitroaniline	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2-Nitrophenol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
3,3'-Dichlorobenzidine	0.17	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
3-Nitroaniline	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
3/4-Methylphenol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
4,6-Dinitro-2-Methylphenol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	5.2 J
4-Bromophenyl Phenyl Ether	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
4-Chloro-3-Methylphenol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
4-Chloroaniline	0.39	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
4-Chlorophenyl Phenyl Ether	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
4-Nitroaniline	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
4-Nitrophenol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Acenaphthene	20	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Acenaphthylene	236	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Anthracene	0.18	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benz (a) Anthracene	0.029	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzo (a) Pyrene	0.20	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzo (b) Fluoranthene	0.22	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzo (g,h,i) Perylene	0.13	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzo (k) Fluoranthene	0.40	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Benzyl Alcohol	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bis (2-chlorethoxy) Methane	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bis (2-chloroethyl) Ether	0.014	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bis (2-ethylhexyl) Phthalate	6.0	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Bis(2-chloro-1-methylethyl)ethe	0.37	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Butyl Benzyl Phthalate	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event	SDG #		96682	96682	96682	96682
	Sample ID		ERH1448	ERH1450	ERH1452	ERH1454
	Collected		6/24/2021	6/24/2021	6/24/2021	6/24/2021
	Sampling Method <sup>1,2</sup>		Bailer	Bailer	Bailer	-
Final results provided (validation pending)	Sample Type		Primary	Primary	Primary	Primary
	Location		RHMW01R	RHMW02	RHMW03	RHSF
SVOC - Cindy Complete	Screening Criteria	Units	Result Q	Result Q	Result Q	Result Q
Carbazole	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Chrysene	1.0	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Di-n-butyl Phthalate	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Di-n-octyl Phthalate	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibenz (a,h) Anthracene	0.022	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dibenzofuran	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Diethyl Phthalate	980	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Dimethyl Phthalate	#N/A	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Diphenylamine	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Fluoranthene	#N/A	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Fluorene	236	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Hexachlorobenzene	0.00030	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Hexachlorobutadiene	0.20	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Hexachlorocyclopentadiene	-	ug/L	<20.00 UJ	<20.00 UJ	<20.00 UJ	<20.00 UJ
Hexachloroethane	0.40	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Indeno (1,2,3-cd) Pyrene	0.095	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Isophorone	82	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
N-nitrosodi-n-propylamine	-	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Naphthalene	17	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Nitrobenzene	0.14	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Pentachlorophenol	1.0	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Phenanthrene	214	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Phenol	300	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
Pyrene	68	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U

Notes:

Screening criteria based on DOH Tier 1 EALs, Table D-1b Groundwater Action Levels, where groundwater is a current or potential drinking water resource, and surface water body is not located within 150m of release site (DOH 2017).

<sup>1</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>2</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

B - blank method contamination

U - nondetect value

ID - identification

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.

2021 NOI Emergency Groundwater Sampling Event			SDG #		96701	96701	96714	96714	96714	96714	96701	96714	96714					
			Sample ID		ERH1456	ERH1529	ERH1530	ERH1458	ERH1531	ERH1460	ERH1455	ERH1457	ERH1459					
			Collected		6/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021	6/30/2021					
			Sampling Method <sup>3,4</sup>		Low-Flow	Bailer	Low-Flow	Bailer	Low-Flow	Bailer	-	-	-					
Final results provided (validation completed)			Sample Type		Primary	Primary	Primary	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank					
			Location		RHMW01R	RHMW01R	RHMW02	RHMW02	RHMW03	RHMW03	RHMW01R	RHMW02	RHMW03					
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	<18.0 U	170	130	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	200 J	270 J	1800	1800	160 J	220 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	<300.0 U	520	570	<300.0 U	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	<300.0 U	210 J	210 J	320	200 J	350	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	<300.0 U	<300.0 U	150 J	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	<0.10 U	0.22	13	20	<0.10 U	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	<0.10 U	11	10	<0.10 U	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	<0.10 U	26	32	<0.10 U	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96778	96778	96778	96778	96778						
		Sample ID		ERH1464	ERH1466	ERH1468	ERH1463	ERH1465						
Final results provided (validation pending)		Collected		7/8/2021	7/8/2021	7/8/2021	7/8/2021	7/8/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02, RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)	RHMW02 2018-2021 Historical Ranges (min/max)	RHMW03 2018-2021 Historical Ranges (min/max)	Units	Result Q	Result Q	Result Q	Results Q	Result Q			
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U		
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U		
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U		
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U		
TPH-g	300	-	<18.0	<18.0	<18.0	95	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U		
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	pending	pending	310 J	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	pending	pending	<300.0 U	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	pending	pending	660 <sup>2</sup>	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.28	19	<0.10 U	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	6.9	<0.10 U	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	37	<0.10 U	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		96846	96846	96846	96846	96846	96846	96846	96846				
		Sample ID		ERH1533	ERH1535	ERH1537	ERH1532	ERH1534	ERH1536						
Final results provided (validation pending)		Collected		7/15/2021	7/15/2021	7/15/2021	7/15/2021	7/15/2021	7/15/2021	7/15/2021	7/15/2021				
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	260 J	2700	250 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	660	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	180 J	530 <sup>2</sup>	610 <sup>2</sup>	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.23	19	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	11	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	38	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		97004	97004	97004	97004	97004	97004						
		Sample ID		ERH1549	ERH1551	ERH1553	ERH1548	ERH1550	ERH1552						
Final results provided (validation pending)		Collected		7/29/2021	7/29/2021	7/29/2021	7/29/2021	7/29/2021	7/29/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	59	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	260 J	2400	260 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	160 J	530	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	200 J	440	490	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	230 J	250 J	250 J	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.30	28	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	0.17 J	26	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	60	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		97057	97057	97057	97057	97057	97057						
		Sample ID		ERH1576	ERH1578	ERH1580	ERH1575	ERH1577	ERH1579						
Final results provided (validation pending)		Collected		8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021	8/5/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	0.30 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	92	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	230 J	2900	430	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	680	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	180 J	380	710 <sup>2</sup>	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	240 J	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.20	35	<0.10	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	29	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	62	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		97159	97159	97159	97159	97159	97159	97159	97159				
		Sample ID		ERH1584	ERH1586	ERH1588	ERH1583	ERH1585	ERH1587						
Final results provided (validation pending)		Collected		8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021	8/12/2021				
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	–	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	–	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	–	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	–	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	200 J	3000	350	–	–	–
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	–	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	690	<300.0 U	–	–	–
TPH-o	500	–	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	160 J	480	790 <sup>2</sup>	–	–	–
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	–	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	260 J	–	–	–
1-Methylnaphthalene	10	–	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.088 J	32	<0.10 U	–	–	–
2-Methylnaphthalene	10	–	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	26	<0.10 U	–	–	–
Naphthalene	17	–	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	67	<0.10 U	–	–	–

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"–" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		97221	97221	97221	97221	97221	97221						
		Sample ID		ERH1592	ERH1594	ERH1596	ERH1591	ERH1593	ERH1595						
Final results provided (validation pending)		Collected		8/19/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021	8/19/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	85	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	230 J	3300	270 J	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	340	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	310 J	470	520 <sup>2</sup>	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	190 J	<300.0 U	190 J	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	pending	53	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	pending	49	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	110	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility

Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021

2.c. Monitoring Wells: RHMW01R, RHMW02, RHMW03 - Groundwater Sampling

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #		97307	97307	97307	97307	97307	97307						
		Sample ID		ERH1617	ERH1619	ERH1621	ERH1616	ERH1618	ERH1620						
Final results provided (validation pending)		Collected		8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021	8/26/2021						
		Sampling Method <sup>3,4</sup>		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
Final results provided (validation completed)		Sample Type		Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03						
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Results Q	Result Q	Result Q
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	320	2800	410	-	-	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	620	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	220 J	370	860	-	-	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0 U	<300.0 U	550	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	<0.10 U	21	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	<0.10 U	18	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	42	<0.10 U	-	-	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 Drinking Water Sampling - RHMW2254-01 Pre-Chlorination  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Drinking Water Sampling Event		SDG #		96439	96439	96537	96537	96623	96623	96682	96682
		Sample ID		ERH1430	ERH1429	ERH1432	ERH1431	ERH1446	ERH1445	ERH1454	ERH1453
		Collected		6/3/2021	6/3/2021	6/10/2021	6/10/2021	6/17/2021	6/17/2021	6/24/2021	6/24/2021
Final results provided (validation pending)		Sample Type		Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank
Final results provided (validation completed)		Location		RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF
Analyte	Screening Criteria	SSRBL	Units	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q
Benzene	5	750	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-	<300.0 U	-
TPH-d w/ Silica Gel Cleanup	400	-	ug/L	<300.0 U	-	-	-	<300.0 U	-	<300.0 U	-
TPH-o	500	-	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-	<300.0 U	-
TPH-o w/ Silica Gel Cleanup	500	-	ug/L	<300.0 U	-	-	-	<300.0 U	-	<300.0 U	-
1-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U	-	<0.10 U	-
2-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U	-	<0.10 U	-
Naphthalene	17	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U	-	<0.10 U	-

Notes:  
 J - estimated value  
 U - nondetect value  
 ID - identification  
 TPH-g - total petroleum hydrocarbons gasoline  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable  
 RHSF - Drinking water samples collected from an operating pump, each equipped with a tap or spigot for sampling.

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 Drinking Water Sampling - RHMW2254-01 Pre-Chlorination  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Drinking Water Sampling Event		SDG #	96714	96714	96778	96778	96846	96846	96919	96919	97004	97004	
		Sample ID	ERH1462	ERH1461	ERH1470	ERH1469	ERH1539	ERH1538	ERH1547	ERH1546	ERH1555	ERH1554	
		Collected	7/1/2021	7/1/2021	7/8/2021	7/8/2021	7/15/2021	7/15/2021	7/22/2021	7/22/2021	7/29/2021	7/29/2021	
Final results provided (validation pending)		Sample Type	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	
Final results provided (validation completed)		Location	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	
Analyte	Screening Criteria	SSRBL	Units	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q
Benzene	5	750	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U			<0.30 U	<0.30 U
Ethylbenzene	30	-	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U			<0.50 U	<0.50 U
Toluene	40	-	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U			<0.30 U	<0.30 U
Xylenes (Total)	20	-	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U			<0.30 U	<0.30 U
TPH-g	300	-	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U			<18.0 U	<18.0 U
TPH-d	400	4500	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-			<300.0 U	-
TPH-d w/ Silica Gel Cleanup	400	-	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-			<300.0 U	-
TPH-o	500	-	ug/L	<300.0 U	-	370	-	480	-			230 J	-
TPH-o w/ Silica Gel Cleanup	500	-	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-			200 J	-
1-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U *	-			<0.10 U	-
2-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U *	-			<0.10 U	-
Naphthalene	17	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U *	-			<0.10 U	-

Notes:  
 J - estimated value  
 U - nondetect value  
 ID - identification  
 TPH-g - total petroleum hydrocarbons gasoline  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable  
 RHSF - Drinking water samples collected from an operating pump, each equipped with a tap or spigot for sampling.

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 Drinking Water Sampling - RHMW2254-01 Pre-Chlorination  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #	97057	97057	97159	97159	97221	97221	97307	97307	
		Sample ID	ERH1582	ERH1581	ERH1590	ERH1589	ERH1598	ERH1597	ERH1623	ERH1622	
		Collected	8/5/2021	8/5/2021	8/12/2021	8/12/2021	8/19/2021	8/19/2021	8/26/2021	8/26/2021	
Final results provided (validation pending)		Sample Type	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	
Final results provided (validation completed)		Location	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	
Analyte	Screening Criteria	SSRBL	Units	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q	Result Q	Results Q
Benzene	5	750	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	ug/L	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U
Toluene	40	-	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	ug/L	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U	<18.0 U
TPH-d	400	4500	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-	<300.0 U	-
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	ug/L	<300.0 U	-	<300.0 U	-	<300.0 U	-	<300.0 U	-
TPH-o	500	-	ug/L	540 <sup>2</sup>	-	480	-	320	-	530 <sup>2</sup>	-
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	ug/L	<300.0 U	-	<300.0	-	<300.0 U	-	<300.0 U	-
1-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U	-	<0.10 U	-
2-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U	-	<0.10 U	-
Naphthalene	17	-	ug/L	<0.10 U	-	<0.10 U	-	<0.10 U	-	<0.10 U	-

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

J - estimated value

U - nondetect value

ID - identification

TPH-g - total petroleum hydrocarbons gasoline

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable

RHSF - Drinking water samples collected from an operating pump, each equipped with a tap or spigot for sampling.

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 Additional Sampling: Drinking Water

**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #	B21092272	B21092273	B21092273	B21092370	B21092370	B21100022	B21100022	B21092660	B21100147	B21100147	B21100126
		Sample ID	ERH1677	ERH1745	ERH1746	ERH1747	ERH1748	ERH1749	ERH1750	ERH1751	ERH1758	ERH1759	ERH1775
		Collected	9/22/2021	9/23/2021	9/23/2021	9/24/2021	9/25/2021	9/26/2021	9/27/2021	9/28/2021	9/29/2021	9/29/2021	9/30/2021
Final results provided (validation pending)		Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary
Final results provided (validation completed)		Location	RHSF pre-chlorination	RHSF pre-chlorination	RHSF post-chlorination	RHSF pre-chlorination	RHSF pre-chlorination	RHSF pre-chlorination	RHSF pre-chlorination	RHSF pre-chlorination	RHSF pre-chlorination	RHSF pre-chlorination	RHSF pre-chlorination
Analyte	Screening Criteria	SSRBL	Units	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
TPH-d	400	4500	ug/L	<150 U	<140 U	<150 U	<140 U	<150 U	<140 U	<140 U	<140 U		
TPH-d w/ Silica Gel Cleanup	400	-	ug/L	-	-	-	-	-	-	-	-		
TPH-o	500	-	ug/L	<150 U	<140 U	<150 U	<140 U	<150 U	<140 U	<140 U	<140 U		
TPH-o w/ Silica Gel Cleanup	500	-	ug/L	-	-	-	-	-	-	-	-		

Notes:  
 U - nondetect value  
 ID - identification  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable  
 RHSF - Drinking water samples collected from an operating pump, each equipped with a tap or spigot for sampling.

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 Additional Sampling: Groundwater - In-tunnel Wells  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #						B21092272	B21092272	B21092272	B21100125	B21100125	B21100125	B21100125	
		Sample ID						ERH1671	ERH1673	ERH1675	ERH1753	ERH1754	ERH1755	ERH1756	
		Collected						9/22/2021	9/22/2021	9/22/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	
		Sampling Method <sup>3, 4</sup>						Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	
Preliminary results provided (final results pending)		Sample Type						Primary	Primary	Primary	Primary	Primary	Primary	Primary	
Final results provided (validation pending)		Location						RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW05	
Analyte	Screening Criteria	SSRBL	RHMW01 2018-2021 Historical Ranges (min/max)		RHMW02 2018-2021 Historical Ranges (min/max)		RHMW03 2018-2021 Historical Ranges (min/max)		Units	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	260 J	2700	160 J			
TPH-d w/ Silica Gel Cleanup <sup>1</sup>	400	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<120 U	510	<130 U			
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	220 J	380	320			
TPH-o w/ Silica Gel Cleanup <sup>1</sup>	500	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<140 U	<160 U	<160 U			

Notes:  
<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.  
<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.  
<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.  
<sup>4</sup> - Bailer method – sample without purging and from the top of the water column.  
 J - estimated value  
 U - nondetect value  
 ID - identification  
 TPH-d - total petroleum hydrocarbons diesel (JP-5)  
 TPH-o - total petroleum hydrocarbons oil/grease  
 "-" - not applicable

Red Hill Bulk Fuel Storage Facility  
 Notice of Interest 20210507-0852 JP-5 spill that occurred on 6 May 2021  
 Additional Sampling: Groundwater - Exterior Wells  
**DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.**

2021 NOI Emergency Groundwater Sampling Event		SDG #	B21100166	B21100166	B21100166	B21100166	B21100166	B21100166	B21100166	B21100166	B21100166	
		Sample ID	ERH1762	ERH1763	ERH1764	ERH1765	ERH1766	ERH1768	ERH1769	ERH1770		
		Collected	10/1/2021	10/1/2021	9/30/2021	9/30/2021	9/30/2021	10/1/2021	9/30/2021	10/1/2021		
		Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer		
		Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary		
		Location	RHMMW04	RHMMW06	RHMMW08	RHMMW09	RHMMW10	RHMMW16	RHMMW19	OWDFMW01		
Analyte		Screening Criteria	SSRBL	Units	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	Result Q	
TPH-d		400	4500	ug/L	<150 U	<150 U	<150 U	<140 U	<140 U	<140 U	<150 U	420
TPH-d w/ Silica Gel Cleanup		400	-	ug/L	<120 U	<120 U	<120 U	<120 U	<120 U	<120 U	<120 U	<110 U
TPH-o		500	-	ug/L	170 J	<150 U	<150 U	<140 U	<140 U	320	380	240
TPH-o w/ Silica Gel Cleanup		500	-	ug/L	<150 U	<150 U	<150 U	<140 U	<140 U	<140 U	<150 U	<140 U

Notes:

<sup>1</sup> - Silica Gel Cleanup is an EPA approved methodology (SW-846 Method 3630C) that separates fuel related compounds from non-fuel related or naturally-occurring compounds from the sample. When these non-fuel related compounds are reported in the sample results, the reported value is skewed high.

<sup>2</sup> - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria. TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease.

<sup>3</sup> - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.

\* - Bailer method – sample without purging and from the top of the water column.

J - estimated value

U - nondetect value

ID - identification

TPH-d - total petroleum hydrocarbons diesel (JP-5)

TPH-o - total petroleum hydrocarbons oil/grease

"-" - not applicable