

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

¹ - Sampling requirements added 2 Jul 21
² - Sampling requirements added 19 Jul 21

SAMPLE TYPE	METHOD	LOCATIONS	FREQUENCY/DURATION	START DATE(S)	REPORTING
1 SOIL VAPOR SAMPLING					
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) ¹ 7 Jul 21: Additional 3 weeks ² 19 Jul 21: Additional 3 weeks	14 Jun 21 to 2 Jul 21 ¹ 6 Jul 21 to 23 Jul 21 ² 2 Aug 21 to 20 Aug 21	Excel spreadsheet
2 SUMMA CANISTER SAMPLING					
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 SVMP with highest PID readings (e.g., SV15S, SV17S, SV18S, SV20M) and most outer bound probe under the same tanks (SV15D, SV17D, SV18D, SV20D)	One time Once per month for 6 months	5 Jun 21 14 Jun 21 to 30 Nov 21	- Laboratory report with chromatograms - Expedited laboratory TAT (starts next business day after samples are received)
3 RHMW HEADSPACE MONITORING					
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 ¹ 7 Jul 21: Additional 3 weeks ² 19 Jul 21: Additional 3 weeks	14 Jun 21 to 9 Jul 21 ¹ 12 Jul 21 to 30 Jul 21 ² 2 Aug 21 to 20 Aug 21	Excel spreadsheet
4 FUEL PRODUCT GAUGING					
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 Once per week for one month ¹ 7 Jul 21: Additional 3 weeks ² 19 Jul 21: Additional 3 weeks	2 Jun 21: begin bailer at 01R, 02, 03 3 Jun 21 to 9 Jun 21: 01R, 02, 03, 05 14 Jun 21 to 9 Jul 21: 01R, 02, 03 ¹ 12 Jul 21 to 30 Jul 21 ² 2 Aug 21 to 20 Aug 21	Excel spreadsheet, photos
5 GROUNDWATER SAMPLING					
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 Once per week for one month ¹ 7 Jul 21: Additional 3 weeks ² 19 Jul 21: Additional 3 weeks	2 Jun 21 to 11 Jul 21: begin bailer samples 14 Jun 21 to 9 Jul 21 ¹ 12 Jul 21 to 30 Jul 21 ² 2 Aug 21 to 20 Aug 21	- 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
6 DRINKING WATER SAMPLING					
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 ¹ 7 Jul 21: Additional 3 weeks ² 19 Jul 21: Additional 3 weeks	14 Jun 21 to 9 Jul 21 ¹ 12 Jul 21 to 30 Jul 21 ² 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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10/4/2021	NC5	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	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	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	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	NC5	112	147	67	664	77	80	1,221	1,262	905
10/21/2021	NC5	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 ⁽⁶⁾	-	18,100 ⁽⁴⁾	
10/25/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	2,983	3,252	106,800	3,500	480	396	5,064	4,420	4,256
10/28/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,290	1,312	1,667	938	1,108	977	3,750	1,563	2,987
11/1/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	962	707	751	NC1	642	720	9,873	4,378	8,193
11/4/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	275	313	550	478	372	532	3,256	4,514	8,630
11/8/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	275	215	204	702	674	627	5,320	5,413	4,934
11/11/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,270	1,274	1,294	1,382	1,011	1,085	4,181	5,172	3,412
11/15/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	433	325	373	359	249	280	6,657	7,805	1,634
11/18/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	945	820	839	885	951	1,310	4,879	6,062	2,523
11/22/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,132	1,049	1,093	842	957	1,056	6,538	6,013	5,956
11/24/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	1,160	1,165	1,151	1,081	1,293	1,258	4,185	4,525	1,352
11/29/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	606	644	551	402	300	252	5,833	5,889	2,054
12/2/2021	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	NC5	270	306	835	802	1,387	1,392	3,689	4,631	1,341

- Notes:
 1 - "M/D" monitoring points were constructed to screen both middle & deep depth intervals along the respective underground storage tank.
 2 - Soil vapor concentration measured using a ppmv PID.
 3 - 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.
 4 - 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 (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)		
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	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	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	NA	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	NA	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	NA	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	NA	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	NA	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	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	NA	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	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	NA	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	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	NA	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	NA	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	NA	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	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	NA	NA
5/25/2021	-	-	-	-	-	-	-	-	-	-	-	-	1251	1.291	0.295 (see note)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5/25/2021	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	NC1	1440	0.0	0.0	102.85	No	NA	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	NA	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	(Yes/No)	NA	1324	0.400	0	102.93	No	NA	1002	5.871	0	83.43	No	NA	NA	NA
5/27/2021	-	-	-	-	-	-	-	-	-	-	-	-	1125	-	0.156 (see note)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	86.73	No	NA	1157	0.6	0.2	103.17	No	NA	0842	1.155	0.184	83.39	No	NA	NA	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	NA	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	NA	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	NA	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	NA	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	NA	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	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	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	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		

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

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

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
10/27/2021	0935	0.1	0.1	84.42	No	NA	0933	0.1	0.1	84.19	No	NA	1027	0.5	3.1	87.09	No	NA	1118	0.1	0.1	103.28	No	NA	0830	0.1	0.0	83.84	No	NA
11/3/2021	1020	0.0	0.0	NC3	NC3	NC3	1030	0.1	0.2	84.19	No	NA	1127	0.1	0.0	87.04	No	NA	1235	0.0	0.1	103.23	No	NA	0923	0.0	0.0	83.80	No	NA
11/10/2021	1140	0.0	0.1	NC3	NC3	NC3	1143	0.0	0.0	84.16	No	NA	1338	0.0	0.0	87.04	No	NA	1517	0.0	0.0	103.28	No	NA	0950	0.0	0.0	83.79	No	NA
11/17/2021	1135	0.0	0.0	NC3	NC3	NC3	1138	0.0	0.1	84.16	No	NA	1323	0.0	0.0	87.04	No	NA	1505	0.0	0.0	103.29	No	NA	1018	0.1	0.0	83.77	No	NA
11/24/2021	1005	0.0	0.0	NC3	NC3	NC3	1003	0.0	0.0	84.29	No	NA	1108	0.0	0.0	87.15	No	NA	1210	0.0	0.0	103.37	No	NA	0855	0.0	0.0	83.93	No	NA
12/1/2021	1040	0.2	0.2	NC3	NC3	NC3	1035	0.2	0.0	83.83	No	NA	1202	0.0	0.0	86.75	No	NA	1312	0.0	0.0	103.02	No	NA	NC4	NC4	NC4	NC4	NC4	NC4

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

NC4 - Monitoring well being sampled for the November 20 event and reported separately

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.

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

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

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)	

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 ⁽¹⁾	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

¹ - 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 ^{3,4}		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	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	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	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	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	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	ug/L	180.0 J	1600.0 J	200.0 J	–	–	–
TPH-d w/ Silica Gel Cleanup ¹	–	–	<300.0	67.0	260.0	690.0	ug/L	<300.0 U	360.0 J	<300.0 U	–	–	–
TPH-o	500	–	<40.0	<300.0	<300.0	330.0	ug/L	<300.0 U	240.0 J	220.0 J	–	–	–
TPH-o w/ Silica Gel Cleanup ¹	–	–	<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	ug/L	<0.10 U	33	<0.10 U	–	–	–
2-Methylnaphthalene	10	–	<0.025	<0.10	7.2	51.0	ug/L	<0.10 U	24	<0.10 U	–	–	–
Naphthalene	17	–	<0.10	0.19	32.0	98.0	ug/L	<0.10 U	59	<0.10 U	–	–	–

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen

⁴ - 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 ^{3, 4}							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 ¹	-	-	<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 ¹	-	-	<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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

⁴ - 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 ^{3,4}		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	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	Result	Result	Results	Result	Result	Result	Result	Results	Result	Result	Result	Result	Results	Result	Result	
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	<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	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	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	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	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	<18.0 U	<18.0 U	
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	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 ¹	-	-	<300.0	67.0	260.0	690.0	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	<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 ¹	-	-	<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	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52.0	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	51.0	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	98.0	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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

⁴ - 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	96410	96410	96410	96410	96410	96410	96438	96438	96438	96438	96438	96438	96463	96463	96463	96463	96463	96463							
		Sample ID		ERH1394	ERH1396	ERH1398	ERH1393	ERH1395	ERH1397	ERH1400	ERH1402	ERH1404	ERH1399	ERH1401	ERH1403	ERH1406	ERH1408	ERH1410	ERH1405	ERH1407	ERH1409								
		Collected		5/31/2021	5/31/2021	5/31/2021	5/31/2021	5/31/2021	5/31/2021	5/31/2021	6/2/2021	6/2/2021	6/2/2021	6/2/2021	6/2/2021	6/2/2021	6/4/2021	6/4/2021	6/4/2021	6/4/2021	6/4/2021	6/4/2021							
		Sampling Method ^{3,4}		Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	Low-Flow	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	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	Results	Q	Result	Q	Result	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	<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	<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	<0.30	U	<0.30	U	<0.30	U	<0.30	U	<0.30	U		
Xylenes (Total)	20	-	<0.30	<0.30	0.4	<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		
TPH-g	300	-	<18.0	<18.0	95.0	<18.0	ug/L	<18.0	U	81.0	<18.0	U	<18.0	U	<18.0	U	38.0	<18.0	U	<18.0	U	27.0	<18.0	U	<18.0	U	<18.0	U	
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	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 ¹	-	-	<300.0	67.0	260.0	690.0	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	ug/L	<300.0	U	180.0	J	180.0	J	-	-	-	160	J	300	J	330	-	-	-	200.0	J	370.0	580.0 ²	
TPH-o w/ Silica Gel Cleanup ¹	-	-	<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
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52.0	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	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	ug/L	<0.10	U	29	<0.10	U	-	-	-	<0.10	U	42	<0.10	U	-	-	-	<0.10	U	26	<0.10	UJ	

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

⁴ - 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			
Final results provided (validation completed)		Collected		6/7/2021	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		
		Sampling Method ^{3,4}		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer
		Sample Type		Primary	Primary	Primary	Trip Blank	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	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	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	<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
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
Xylenes (Total)	20	-	<0.30	<0.30	0.4	<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
TPH-g	300	-	<18.0	<18.0	95.0	<18.0	<18.0	<18.0	ug/L	<18.0 U	33.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U	60.0	<18.0 U	<18.0 U	<18.0 U	<18.0 U	47.0	<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	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 ¹	-	-	<300.0	67.0	260.0	690.0	<25.0	<300.0	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	<300.0	330.0	<300.0	310.0	ug/L	320.0	320.0	840.0 ²	-	-	-	190.0 J	240.0 J	550.0 ²	-	-	-	<300.0 U	410.0	370.0
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	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	52.0	<0.025	<0.10	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	51.0	<0.025	<0.10	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	98.0	<0.025	<0.10	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:
¹ - 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.
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³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen.
⁴ - 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 ^{3,4}						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	
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	
Ethylbenzene	30	–	<0.50	<0.50	<0.50	<0.50	<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	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	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	U	<18.0	U	23.0	<18.0	U	<18.0	U	<18.0	U
TPH-d	400	4500	<300.0	350.0	1500.0	2900.0	150.0	U	240.0	J	2000.0	220.0	J	–	–	–	
TPH-d w/ Silica Gel Cleanup ¹	–	–	<300.0	67.0	260.0	690.0	<25.0	U	<300.0	U	740.0	<300.0	U	–	–	–	
TPH-o	500	–	<40.0	<300.0	<300.0	330.0	<300.0	U	170.0	J	350.0	330.0	–	–	–	–	
TPH-o w/ Silica Gel Cleanup ¹	–	–	<40.0	<300.0	<40.0	<300.0	<40.0	U	150.0	J	160.0	200.0	J	–	–	–	
1-Methylnaphthalene	10	–	<0.025	<0.10	8.7	52.0	<0.025	U	0.43	–	19	<0.10	U	–	–	–	
2-Methylnaphthalene	10	–	<0.025	<0.10	7.2	51.0	<0.025	U	<0.10	U	8.3	<0.10	U	–	–	–	
Naphthalene	17	–	<0.10	0.19	32.0	98.0	<0.025	U	<0.10	U	33	<0.10	U	–	–	–	

Notes:

¹ - 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.

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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 ^{3,4}						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	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	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	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	0.37	<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	95	<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	ug/L	160 J	1400	150 J	-	-	-
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	ug/L	150 J+	470	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	ug/L	<300.0 U	<300.0 U	170 J	-	-	-
TPH-o w/ Silica Gel Cleanup ¹	-	-	<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	ug/L	<0.10 U	24	<0.10 U	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	ug/L	<0.10 U	17	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	ug/L	<0.10 U	54	<0.10 U	-	-	-

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen

⁴ - Bailer method – sample without purging and from the top of the water column

J - estimated value

J+ - estimated value, high bias

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 ^{1, 2}		Bailer	Bailer	Bailer	-
Final results provided (validation completed)	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	0.46	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	400	ug/L	<5.00 U	<5.00 U	<5.00 U	<5.00 U
2,4-Dinitrophenol	-	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-chloroethoxy) 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)ethane	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
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

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 ^{1,2}		Bailer	Bailer	Bailer	-
Final results provided (validation completed)	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
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	3200	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	13	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).

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

² - 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 ^{3,4}							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	
Ethylbenzene	30	-	<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	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	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	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 ¹	-	-	<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 ¹	-	-	<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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

⁴ - 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 ^{3,4}		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	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	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	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	0.37	ug/L	<0.30 U	<0.30 U	<0.30 U	<0.30 U	<0.30 U
TPH-g	300	-	<18.0	<18.0	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	ug/L	pending *	pending *	310 J	-	-
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	ug/L	pending *	pending *	<300.0 U	-	-
TPH-o	500	-	<40.0	<300.0	330	ug/L	pending *	pending *	660 ²	-	-
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	ug/L	<300.0 U	<300.0 U	<300.0 U	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	ug/L	0.28	19	<0.10 U	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	ug/L	<0.10 U	6.9	<0.10 U	-	-
Naphthalene	17	-	<0.10	0.19	32	ug/L	<0.10 U	37	<0.10 U	-	-

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen
⁴ - 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

* Discrepancies noted in the final report are being corrected

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					
		Sampling Method ^{3,4}		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	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	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	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	0.37	<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	95	<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 ¹	-	-	<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 ²	610 ²	-	-	-
TPH-o w/ Silica Gel Cleanup ¹	-	-	<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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen
⁴ - 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 completed)		Collected		7/29/2021	7/29/2021	7/29/2021	7/29/2021	7/29/2021	7/29/2021						
		Sampling Method ^{3,4}		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer						
		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	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	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	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	0.37	<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	95	<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 ¹	-	-	<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 ¹	-	-	<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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen
⁴ - 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 ^{3,4}		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	<0.30	<0.30 U	<0.30 U	<0.30 U
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50 U	0.30 J	<0.50 U
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30 U	<0.30	<0.30 U
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	<0.30	<0.30 U	<0.30	<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
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	230 J	2900	430
TPH-d w/ Silica Gel Cleanup ¹	-	-	<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 ²
TPH-o w/ Silica Gel Cleanup ¹	-	-	<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 U
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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen
⁴ - 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	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	8/12/2021	8/12/2021		
		Sampling Method ^{3,4}		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	Trip Blank	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 ¹	-	-	<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 ²	-	-	-
TPH-o w/ Silica Gel Cleanup ¹	-	-	<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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen
⁴ - 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 ^{3,4}		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
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
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
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
Xylenes (Total)	20	-	<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	95	ug/L	<18.0	U	85		<18.0	U	<18.0	U	<18.0	U
TPH-d	400	4500	<300.0	350	1500	ug/L	230	J	3300		270	J	-		-	
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	ug/L	<300.0	U	340		<300.0	U	-		-	
TPH-o	500	-	<40.0	<300.0	<300.0	ug/L	310	J	470		520	²	-		-	
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	ug/L	190	J	<300.0	U	190	J	-		-	
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	ug/L	pending		53		<0.10	U	-		-	
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	ug/L	pending		49		<0.10	U	-		-	
Naphthalene	17	-	<0.10	0.19	32	ug/L	<0.10	U	110		<0.10	U	-		-	

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen
⁴ - 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	97307	97307										
		Sample ID		ERH1617	ERH1624	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	8/26/2021	8/26/2021										
		Sampling Method ^{3,4}		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer											
Final results provided (validation completed)		Sample Type		Primary	Field Duplicate	Primary	Primary	Trip Blank	Trip Blank	Trip Blank											
		Location		RHMW01R	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	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		270	J	2800		410		-		-	
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0	U	<300.0	U	620		<300.0	U	-		-	
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	220	J	300	J	370		860		-		-	
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0	U	<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	<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	<0.10	U	18		<0.10	U	-		-	
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10	U	<0.10	U	42		<0.10	U	-		-	

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

⁴ - 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 #		97378	97378	97378	97378	97378	97378	97378	97378										
		Sample ID		ERH1640	ERH1647	ERH1642	ERH1644	ERH1639	ERH1641	ERH1643											
		Collected		9/1/2021	9/1/2021	9/1/2021	9/1/2021	9/1/2021	9/1/2021	9/1/2021											
		Sampling Method ^{3, 4}		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer											
Final results provided (validation pending)		Sample Type		Primary	Field Duplicate	Primary	Primary	Trip Blank	Trip Blank	Trip Blank											
Final results provided (validation completed)		Location		RHMW01R	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	Result	Q	Results	Q	Result	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	<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	<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	<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	<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	<18.0	U	<18.0	U
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	240	J	250	J	3600	260	J	-	-	-	-	-
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0	U	<300.0	U	1400	<300.0	U	-	-	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	160	J	220	J	560	2	520	2	-	-	-	-
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0	U	<300.0	U	180	J	190	J	-	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.28		0.25		31		<0.10	U	-	-	-	-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L	0.085	J	0.064	J	29		<0.10	U	-	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10	U	<0.10	U	67		<0.10	U	-	-	-	-

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - Low-flow method – sample with bladder pump, after purging and from approximately mid-screen

⁴ - 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 #		97541	97541	97541	97541	97541	97541	97541	97541					
		Sample ID		ERH1662	ERH1669	ERH1664	ERH1666	ERH1661	ERH1663	ERH1665						
Final results provided (validation pending)		Collected		9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021	9/15/2021					
		Sampling Method 1,2		Bailer	Bailer	Bailer	Bailer	-	-	-						
Final results provided (validation completed)		Sample Type		Primary	Field Duplicate	Primary	Primary	Trip Blank	Trip Blank	Trip Blank						
		Location		RHMW01R	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	Result Q	Results Q	Result 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	<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	<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	<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	<0.30 U	<0.30 U		
TPH-g	300	-	<18.0	<18.0	<18.0	95	ug/L	<18.0 U	<18.0 U	46	<18.0 U	<18.0 U	23	<18.0 U		
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	240 J	280 J	2600	350	-	-	-
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L	<300.0 U	<300.0 U	1100	<300.0 U	-	-	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	210 BJ	310 BJ	470 B	700 B	-	-	-
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	150 BJ	250 BJ	160 BJ	440 B	-	-	-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L	0.19 J	0.21	33	<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	33	<0.10 U	-	-	-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L	<0.10 U	<0.10 U	70	<0.10 U	-	-	-

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

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

B - the analyte was found in the method blank, as well as in the sample

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 #		97642	97642	97642	97642	97642	97642	97642	97642	97642					
		Sample ID		ERH1671	ERH1678	ERH1673	ERH1675	ERH1670	ERH1672	ERH1674							
		Collected		9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021	9/22/2021			
		Sampling Method ^{3, 4}		Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer			
Final results provided (validation pending)		Sample Type		Primary	Field Duplicate	Primary	Primary	Trip Blank	Trip Blank	Trip Blank							
Final results provided (validation completed)		Location		RHMW01R	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	Result	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	0.27	J	<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	55		<18.0	U	<18.0	U
TPH-d	400	4500	<300.0	350	1500	2900	ug/L	270	J	220	J	3300		360			
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	ug/L	<300.0	U	<300.0	U	670		<300.0	U		
TPH-o	500	-	<40.0	<300.0	<300.0	330	ug/L	170	BJ	200	BJ	470	B	530	B		
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	ug/L	<300.0	UB	180	BJ	250	BJ	200	BJ		
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	ug/L	<0.10	U	0.10	J	25		<0.10	U		
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	ug/L	<0.10	U	<0.10	U	23		<0.10	U		
Naphthalene	17	-	<0.10	0.19	32	98	ug/L	<0.10	U	<0.10	U	49		<0.10	U		

Notes:

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J - estimated value

U - nondetect value

B - the analyte was found in the method blank, as well as in the sample

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 #		97741	97741	97741	97741	97717	97741						
		Sample ID		ERH1753	ERH1754	ERH1755	ERH1756	ERH1757	ERH1760						
		Collected		9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021						
		Sampling Method ^{3,4}		Bailer	Bailer	Bailer	Bailer	Low-Flow	-						
Preliminary results provided (final results pending)		Sample Type		Primary	Primary	Primary	Primary	Primary	Trip Blank						
Final results provided (validation pending)		Location		RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01	RHMW01R, 02, 03, 05						
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
Benzene	5	750	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L					<0.30 U	
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L					<0.50 U	
Toluene	40	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	ug/L					<0.30 U	
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L					<0.30 U	
TPH-g	300	-	<18.0	<18.0	<18.0	95	<18.0	<18.0	ug/L					<18.0 U	
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L					<300.0 U	
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L					<300.0 U	
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L					180 BJ	
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L					160 BJ	
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L					<0.10 U	
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L					<0.10 U	
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L					<0.10 U	
Total Organic Carbon	-	-	450	970	3000	4400	1290	1800	ug/L					<350 U	

Notes:

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² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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J - estimated value

U - nondetect value

B - the analyte was found in the method blank, as well as in the sample

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 #		97850	97850	97850	97850	97833	97850	97850	97850	97850	97833				
		Sample ID		ERH1803	ERH1806	ERH1809	ERH1812	ERH1815	ERH1802	ERH1805	ERH1808	ERH1811	ERH1814				
		Collected		10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021				
		Sampling Method 1,2		Bailer	Bailer	Bailer	Bailer	Low-Flow	-	-	-	-	-				
		Sample Type		Primary	Primary	Primary	Primary	Primary	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Trip Blank				
		Location		RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01	RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01				
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	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
Ethylbenzene	30	-	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ug/L					<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
Xylenes (Total)	20	-	<0.30	<0.30	<0.30	0.37	<0.30	<0.30	ug/L					<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
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L					<300.0 U			-
TPH-d w/ Silica Gel Cleanup	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L					<300.0 U			-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L					<300.0 U			-
TPH-o w/ Silica Gel Cleanup	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L					<300.0 U			-
1-Methylnaphthalene	10	-	<0.025	<0.10	8.7	52	<0.025	<0.10	ug/L					<0.10 U			-
2-Methylnaphthalene	10	-	<0.025	<0.10	7.2	51	<0.025	<0.10	ug/L					<0.10 U			-
Naphthalene	17	-	<0.10	0.19	32	98	<0.025	<0.10	ug/L					<0.10 U			-
Total Organic Carbon	-	-	450	970	3000	4400	1290	1800	ug/L					17600			-

Notes:

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² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

³ - 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-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 completed)		Sample Type	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	
		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	-	-	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	-	-	ug/L	<300.0 U	-	-	-	<300.0 U	-	<300.0 U	-
1-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 UJ	-	<0.10 U	-	<0.10 U	-
2-Methylnaphthalene	10	-	ug/L	<0.10 U	-	<0.10 UJ	-	<0.10 U	-	<0.10 U	-
Naphthalene	17	-	ug/L	<0.10 U	-	<0.10 UJ	-	<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	-	-	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	-	-	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 ¹	–	–	ug/L	<300.0 U	–	<300.0 U	–	<300.0 U	–	<300.0 U	–
TPH-o	500	–	ug/L	540 ²	–	480	–	320	–	530 ²	–
TPH-o w/ Silica Gel Cleanup ¹	–	–	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:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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 #		97378	97378	97466	97466	97541	97541	97642	97642	97717	97717	97717
		Sample ID		ERH1646	ERH1645	ERH1659	ERH1658	ERH1668	ERH1667	ERH1677	ERH1676	ERH1758	ERH1759	ERH1761
		Collected		9/1/2021	9/1/2021	9/8/2021	9/8/2021	9/15/2021	9/15/2021	9/22/2021	9/22/2021	9/29/2021	9/29/2021	9/29/2021
Final results provided (validation pending)		Sample Type		Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Trip Blank	Primary	Field Duplicate	Trip Blank
Final results provided (validation completed)		Location		RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF, RHMW2254-01
Analyte	Screening Criteria	SSRBL	Units	Result Q	Results Q	Result Q	Results Q	Results Q	Results Q	Results Q	Results Q	Results Q	Results 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	<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	<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	<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	<0.30 U
TPH-g	300	-	ug/L	<0.18 U	<0.18 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	<300.0 U	-
TPH-d w/ Silica Gel Cleanup	-	-	ug/L	<300.0	-			<300.0 U	-	<300.0 U	-	<300.0 U	<300.0 U	-
TPH-o	500	-	ug/L	480	-			270 BJ	-	490 B	-	170 BJ	170 BJ	-
TPH-o w/ Silica Gel Cleanup	-	-	ug/L	170 J	-			370 B	-	280 BJ	-	160 BJ	<300.0 U	-
1-Methylnaphthalene	10	-	ug/L	<0.10 U	-			<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	<0.10 U	-
Naphthalene	17	-	ug/L	<0.10 U	-			<0.10 U	-	<0.10 U	-	<0.10 U	<0.10 U	-
Total Organic Carbon	-	-	ug/L	-	-			-	-	-	-	<350 U	-	-

Notes:

J - estimated value

U - nondetect value

B - the analyte was found in the method blank, as well as in the sample

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 #	97783	97783	97783	97833	97833	97833						
		Sample ID	ERH1798	ERH1800	ERH1797	ERH1818	ERH1820	ERH1817						
		Collected	10/6/2021	10/6/2021	10/6/2021	10/13/2021	10/13/2021	10/13/2021						
Final results provided (validation pending)		Sample Type	Primary	Field Duplicate	Trip Blank	Primary	Field Duplicate	Trip Blank						
Final results provided (validation completed)		Location	RHSF	RHSF	RHSF	RHSF	RHSF	RHSF						
Analyte	Screening Criteria	SSRBL	Units	Result Q	Result Q	Results Q	Result Q	Result Q	Results Q					
Benzene	5	750	ug/L				<0.30 U	<0.30 U	<0.30 U					
Ethylbenzene	30	-	ug/L				<0.50 U	<0.50 U	<0.50 U					
Toluene	40	-	ug/L				<0.30 U	<0.30 U	<0.30 U					
Xylenes (Total)	20	-	ug/L				<0.30 U	<0.30 U	<0.30 U					
TPH-g	300	-	ug/L				<18.0 U	<18.0 U	<18.0 U					
TPH-d	400	4500	ug/L				<300.0 U	<300.0 U	-					
TPH-d w/ Silica Gel Cleanup	-	-	ug/L				<300.0 U	<300.0 U	-					
TPH-o	500	-	ug/L				<300.0 U	<300.0 U	-					
TPH-o w/ Silica Gel Cleanup	-	-	ug/L				<300.0 U	<300.0 U	-					
1-Methylnaphthalene	10	-	ug/L				<0.10 U	<0.10 U	-					
2-Methylnaphthalene	10	-	ug/L				<0.10 U	<0.10 U	-					
Naphthalene	17	-	ug/L				<0.10 U	<0.10 U	-					
Total Organic Carbon	-	-	ug/L				17300	-	-					

Notes:

J - estimated value

U - nondetect value

B - the analyte was found in the method blank, as well as in the sample

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) Final results provided (validation completed)		Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Duplicate	Primary	
		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	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	Result Q
TPH-d	400	4500	ug/L	<150 U	<140 U	<150 U	<140 U	<150 U	<140 U	<140 U	<140 U	<140 U	<140 U	<140 U
TPH-d w/ Silica Gel Cleanup	-	-	ug/L	-	-	<120 U	-	-	<110 U	<110 U	-	-	-	-
TPH-o	500	-	ug/L	<150 U	<140 U	<150 U	<140 U	<150 U	<140 U	<140 U	<140 U	<140 U	<140 U	<140 U
TPH-o w/ Silica Gel Cleanup	-	-	ug/L	-	-	<150 U	-	-	<140 U	<140 U	-	-	-	-

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

2021 NOI Emergency Groundwater Sampling Event		SDG #	B21100171	B21100756	B21100824	B21100827	B21100828	B21100828	B21100806	B21100806	B21101306	B21101306	B21101919	B21101919	
		Sample ID	ERH1776	ERH1777	ERH1778	ERH1779	ERH1780	ERH1781	ERH1799	ERH1801	ERH1819	ERH1821	ERH1840	ERH1842	
		Collected	10/1/2021	10/2/2021	10/3/2021	10/4/2021	10/5/2021	10/5/2021	10/6/2021	10/6/2021	10/13/2021	10/13/2021	10/20/2021	10/20/2021	
Final results provided (validation pending)		Sample Type	Primary	Primary	Primary	Primary	Primary	Field Duplicate	Primary	Field Duplicate	Primary	Field Duplicate	Primary	Field Duplicate	
Final results provided (validation completed)		Location	RHSF pre-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	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	Result Q	
TPH-d	400	4500	ug/L	<140 U	<140 U	<140 U	<140 U	<140 U	<140 U	<140 U	<140 U	<140 U	<150	<150 U	<150 U
TPH-d w/ Silica Gel Cleanup	-	-	ug/L	-	-	-	-	-	-	-	-	-	-	-	-
TPH-o	500	-	ug/L	<140 U	<140 U	<140 U	<140 U	100 J	<140 U	<140 U	<140 U	<140	<150	<150 U	<150 U
TPH-o w/ Silica Gel Cleanup	-	-	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	B21100147		
		Sample ID						ERH1671	ERH1673	ERH1675	ERH1753	ERH1754	ERH1755	ERH1756	ERH1757		
		Collected						9/22/2021	9/22/2021	9/22/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021	9/29/2021		
		Sampling Method ^{3,4}						Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Low-Flow		
Preliminary results provided (final results pending)		Sample Type						Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary		
Final results provided (validation pending)		Location						RHMW01R	RHMW02	RHMW03	RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01		
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	Result Q	
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	260 J	2700	160 J	390	2400	220 J	50 J	<140 U
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L	51 J	510	<130 U	80 J	580	<120 U	<120 U	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	220 J	380	320	140 J	380	720 ²	<150 U	<140 U
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<140 U	<160 U	<160 U	<150 U	<140 U	<150 U	<150 U	-

Notes:

¹ - 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.

² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

⁴ - 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_977 48	B21100166_977 48	B21100166_977 48	B21100166_977 48	B21100166_977 48	B21100166_977 48	B21100166_977 48	B21100166_977 48	B21100166_977 48	B21100827	B21100827	B21100834_977 69	B21100834	B21100834
		Sample ID	ERH1762	ERH1763	ERH1764	ERH1765	ERH1766	ERH1768	ERH1769	ERH1770	ERH1767	ERH1772	ERH1771	ERH1773	ERH1774	
		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	10/4/2021	10/4/2021	10/5/2021	10/5/2021	10/5/2021	
		Sampling Method ^{3,4}	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Bailer	Westbay-packers	Westbay-packers	Westbay-packers	
Preliminary results provided (final results pending)		Sample Type	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Field Duplicate	Primary	Field Blank	Equipment Blank	
Final results provided (validation pending)		Location	RHMMW04	RHMMW06	RHMMW08	RHMMW09	RHMMW10	RHMMW16	RHMMW19	OWDFMW01	RHMMW12A	RHMMW12A	RHMMW14-03	RHMMW14-03	RHMMW14-03	
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	Result Q	Result Q	
TPH-d	400	4500	ug/L	47 J	<150 U	<150 U	<140 U	<140 U	73 J	82 J	420	220 J	230 J	<150 U	<140 U	<140 U
TPH-d w/ Silica Gel Cleanup ¹	-	-	ug/L	<120 U	<120 U	<120 U	<120 U	<120 U	<120 U	<120 U	<110 U	<110 U	<110 U	-	-	-
TPH-o	500	-	ug/L	170 J	150 J	<150 U	<140 U	140 J	320	380	240	170 J	160 J	<150 U	<140 U	<140 U
TPH-o w/ Silica Gel Cleanup ¹	-	-	ug/L	<150 U	<150 U	<150 U	<140 U	<140 U	<140 U	<150 U	<140 U	<140 U	<140 U	-	-	-
Total Organic Carbon	-	-	ug/L	2,100	430 J	420 J	220 J	720 J	210 J	580 J	1800	5300	-	200 J	-	-

Notes:

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² - After the application of Silica Gel Cleanup, TPH-o levels are below the screening criteria (EAL). TPH-o detects heavy oils and greases. JP-5 is not a heavy oil or grease. DOH does not have a screening criteria (EAL) for silica gel cleanup.

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

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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 - In-tunnel Wells
DISCLAIMER: Preliminary Data: Undergoing Validation - Subject to Change.

2021 NOI Emergency Groundwater Sampling Event		SDG #								B21100806	B21100806	B21100806	B21100806	B21100806	B21101306	B21101306	B21101306	B21101306	B21101306
		Sample ID								ERH1784	ERH1787	ERH1790	ERH1793	ERH1796	ERH1804	ERH1807	ERH1810	ERH1813	ERH1816
		Collected								10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/6/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021	10/13/2021
		Sampling Method ^{3,4}								Bailer	Bailer	Bailer	Bailer	Low-Flow	Bailer	Bailer	Bailer	Bailer	Low-Flow
Preliminary results provided (final results pending)		Sample Type								Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Final results provided (validation pending)		Location								RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01	RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01
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	Result Q	Result Q	Result Q	
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	490	3100	180 J	56 J	<140 U	420	3500	120 J	59 J	<140 U
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L	120 J	750	<140 U	<140 U	<140 U	<120 U	580	<120 U	<120 U	-
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	180 J	380	570 ²	87 J	170 J	190 J	430	330	110 J	<140 U
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<140 U	<140 U	<140 U	<140 U	<140 U	<150 U	<140 U	<150 U	<150 U	-

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TPH-o - total petroleum hydrocarbons oil/grease

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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 #		B21101919	B21101919	B21101919	B21101919	B21101919	B2110057	B2110057	B2110057	B2110057	B2110057					
		Sample ID		ERH1834	ERH1828	ERH1831	ERH1825	ERH1837	ERH1845	ERH1848	ERH1851	ERH1854	ERH1857					
		Collected		10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/20/2021	10/27/2021	10/27/2021	10/27/2021	10/27/2021	10/26/2021					
		Sampling Method ^{3,4}		Bailer	Bailer	Bailer	Bailer	Low-Flow	Bailer	Bailer	Bailer	Bailer	Low-Flow					
Preliminary results provided (final results pending)		Sample Type		Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary						
Final results provided (validation pending)		Location		RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01	RHMW01R	RHMW02	RHMW03	RHMW05	RHMW2254-01					
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	Result Q				
TPH-d	400	4500	<300.0	350	1500	2900	150	380	ug/L	670	3000	150 J	91 J	<140 U				
TPH-d w/ Silica Gel Cleanup ¹	-	-	<300.0	67	260	690	<25.0	<300.0	ug/L	140 J	790	<110 U	<110 U	-				
TPH-o	500	-	<40.0	<300.0	<300.0	330	<300.0	310	ug/L	250 J	300	280 J	pending	<140 U				
TPH-o w/ Silica Gel Cleanup ¹	-	-	<40.0	<300.0	<40.0	<300.0	<40.0	<300.0	ug/L	<140 U	<140 U	<140 U	<140 U	-				

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