TABLE 2.1
Analytical Results for Groundwater Sampling (20 July 2016)
Red Hill Bulk Storage Facility - Inside Tunnel Wells
July 2016 Quarterly Monitoring Report

Method	Chemical	DOH EAL	RHMW01 (ERH053)					RHMW02 (ERH054)					RHMW02 (ERH055 Duplicate of ERH054)					RHMW03 (ERH056)					RHMW05 (ERH052)					RHMW2254-01 (ERH051)				
			Result	Q	LOQ	LOD	DL	Result	Q	LOQ	LOD	DL	Result	Q	LOQ	LOD	DL	Result	Q	LOQ	LOD	DL	Result	Q	LOQ	LOD	DL	Result	Q	LOQ	LOD	DL
EPA 8015C	TPH-g	100	ND>LOD	U	50	25	8.3	31	J (S)	50	25	8.3	30	J (S)	50	25	8.3	ND>LOD	U	50	25	8.3	ND>LOD	U	50	25	8.3	ND>LOD	U	50	25	8.3
	TPH-d	100	250	Y	53	22	12	3,600	Y	54	22	12	3,200	Y	53	22	12	70	Y, U (B)	52	21	12	ND>LOD	U	52	21	12	ND>LOD	U	52	21	12
	TPH-o	100	59	J	110	53	21	280	L	110	54	21	270	L	110	53	21	110	J	110	52	20	ND	U (B,F)	110	52	20	ND	U (B,F)	110	52	20
EPA 8270D SIM	1-Methylnaphthalene	4.7	0.032	X, J (V)	0.020	0.0050	0.0035	36	D	0.20	0.050	0.035	33	D	0.20	0.050	0.035	0.0073	J	0.020	0.0050	0.0035	ND>LOD	U	0.020	0.0050	0.0035	ND>LOD	U	0.020	0.0050	0.0035
	2-Methylnaphthalene	10	0.0068	JX, J (V)	0.020	0.0050	0.0023	13	D	0.20	0.050	0.023	12	D	0.20	0.050	0.023	0.0040	J	0.020	0.0050	0.0023	ND>LOD	U	0.020	0.0050	0.0023	ND>LOD	U	0.020	0.0050	0.0023
	Naphthalene	17	0.21		0.020	0.0050	0.0038	67	D	0.20	0.050	0.038	62	D	0.20	0.050	0.038	ND>LOD	U (F)	0.020	0.0050	0.0038	ND>LOD	U (B,F)	0.020	0.0050	0.0038	ND>LOD	U (B,F)	0.020	0.0050	0.0038
EPA 8260C	Benzene	5	ND>LOD	U	0.50	0.10	0.062	0.070	J	0.50	0.10	0.062	0.080	J	0.50	0.10	0.062	ND>LOD	U	0.50	0.10	0.062	ND>LOD	U	0.50	0.10	0.062	ND>LOD	U	0.50	0.10	0.062
	Ethylbenzene	30	ND>LOD	U	0.50	0.10	0.050	ND>LOD	U (F)	0.50	0.10	0.050	ND>LOD	U (F)	0.50	0.10	0.050	ND>LOD	U	0.50	0.10	0.050	ND>LOD	U	0.50	0.10	0.050	ND>LOD	U	0.50	0.10	0.050
	Toluene	40	ND>LOD	U	0.50	0.10	0.054	ND>LOD	U	0.50	0.10	0.054	ND>LOD	U	0.50	0.10	0.054	ND>LOD	U	0.50	0.10	0.054	ND>LOD	U	0.50	0.10	0.054	ND>LOD	U	0.50	0.10	0.054
	Xylenes, Total	20	ND>LOD	U	0.50	0.20	0.074	ND>LOD	U (F)	0.50	0.20	0.074	ND>LOD	U (F)	0.50	0.20	0.074	ND>LOD	U	0.50	0.20	0.074	ND>LOD	U	0.50	0.20	0.074	ND>LOD	U	0.50	0.20	0.074

Data are reported in micrograms per liter (µg/L). Shaded values exceeded the DOH Tier 1 EALs.

DOH EAL DOH Tier 1 Environmental Action Levels for groundwater where groundwater is a current drinking water source (DOH, Fall 2011).

DL Laboratory detection limit.
LOD Limit of Detection
LOQ Limit of Quantitation
ND Not Detected
ND>LOD Not Detected above the LOD
Q Qualifiers

B Compound or analyte was analyzed for and positively identified by the laboratory; however, the compound or analyte should be considered not detected at the reported concentration due to the presence of contaminants detected in the associated blank(s).
D The reported result is from a dilution.
F Presumed contamination from FB (field blank) or ER (equipment rinse sample).
J The result is an estimated value.
L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
S Surrogate recovery was outside QC limits.
U The analyte was analyzed for, but was not detected ("Non-detect") at or above the LOQ/LOD
V Unusual problems found with the data not defined elsewhere. Description of the problem can be found in the validation report.
X The results reported for 2-Methylnaphthalene and 1-Methylnaphthalene in sample ERH053 may contain a slight bias. The chromatogram indicated the presence of non-target background components.
The matrix interference may have resulted in a slight high bias in the affected sample.
Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.