



DEPARTMENT OF THE NAVY

COMMANDER
NAVY REGION HAWAII
850 TICONDEROGA ST STE 110
JBPHH, HAWAII 96860-5101

MAR 11 2014
am

5090
Ser N45/ 174
March 10, 2014

CERTIFIED NO: 7011 0110 0002 1802 1621

Mr. Richard Takaba
Hawaii State Department of Health
Environmental Management Division
Solid and Hazardous Waste Branch
Underground Storage Tank Section
919 Ala Moana Boulevard, Room 212
Honolulu, HI 96814

Dear Mr. Takaba:

SUBJECT: RED HILL TANK COMPLEX
SOIL VAPOR SAMPLING REPORT FOR FEBRUARY 2014
DOH FACILITY ID NO. 9-102271
DOH RELEASE ID NO. 99051, 010011, 020028, AND 140010

Monthly soil vapor samples were collected from beneath 17 of the 18 active Red Hill tanks on January 30, 2014 and February 24, 2014. Samples were not collected from beneath Tank 14 due to construction work.

Soil vapor samples were analyzed in the field for VOC concentrations using a photo-ionization detector. The soil vapor sampling results are being submitted as Enclosure 1.

Due to the JP-8 fuel release at Tank 5 in January 2014, soil vapor monitoring is being performed at increased frequencies at selected tanks. Results will be submitted to the DOH upon receipt from the contractor.

If there are any questions regarding this matter, or if more information is needed, please contact Ms. Raelynn Kishaba at (808) 471-1171, extension 233.

Sincerely,

AARON Y. POENTIS
Director
Regional Environmental Department
By direction of the
Commander

Enclosure: 1. Summary of Monthly Soil Vapor Sampling Results through February 2014 (36 pages)

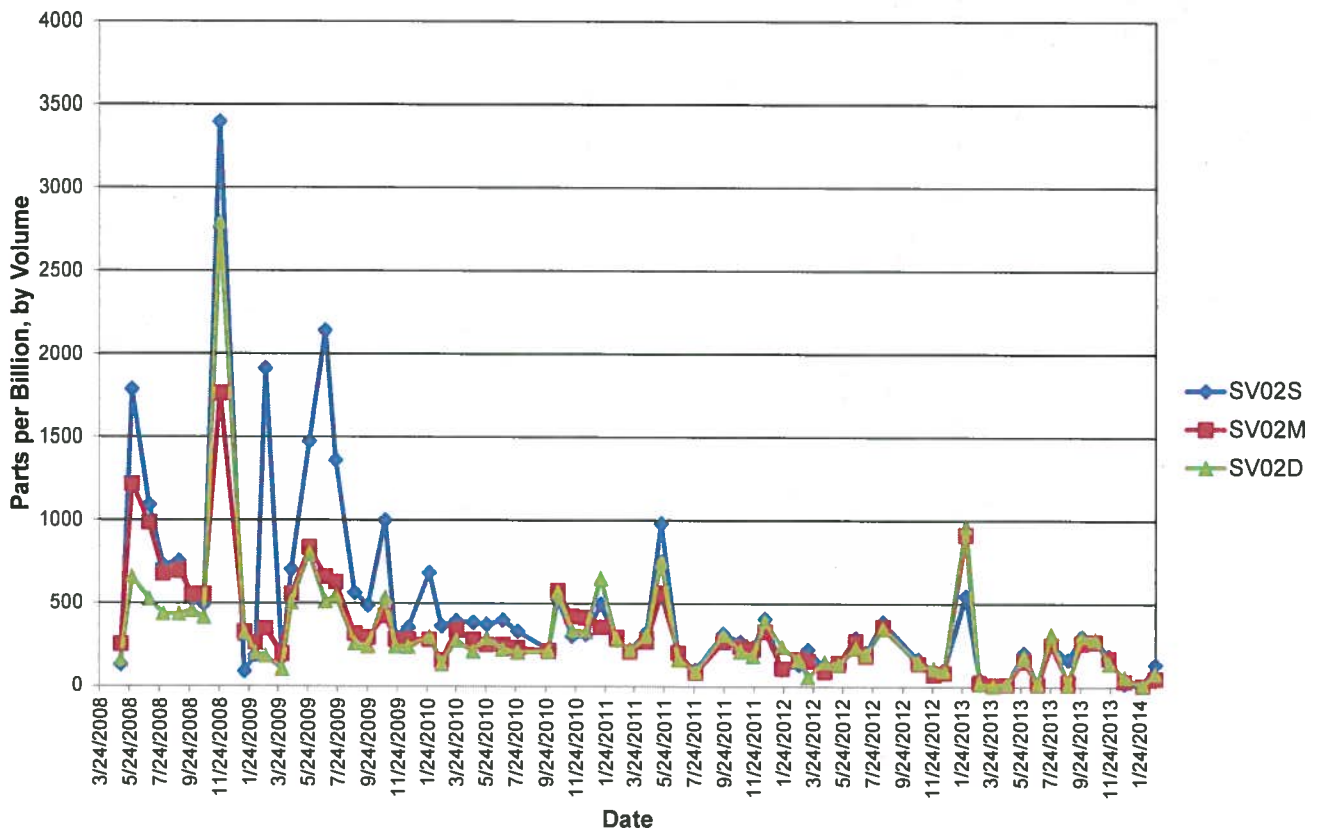
Table 1
Soil Vapor Results for SV02
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV02S	SV02M	SV02D
3/24/2008	NC	NC	NC
5/6/2008	129	252	157
5/29/2008	1785	1217	657
7/3/2008	1090	984	525
7/31/2008	728	677	437
9/2/2008	754	693	434
9/29/2008	520	553	456
10/23/2008	493	555	413
11/25/2008	3396	1762	2792
1/14/2009	89	329	312
2/5/2009	188	264	202
2/26/2009	1912	348	184
4/1/2009	169	195	102
4/20/2009	704	557	504
5/27/2009	1473	835	799
6/29/2009	2141	659	511
7/20/2009	1360	628	544
8/28/2009	564	318	258
9/24/2009	488	294	241
10/29/2009	999	425	533
11/19/2009	305	283	241
12/16/2009	356	284	238
1/28/2010	684	283	299
2/22/2010	364	159	135
3/25/2010	394	340	277
4/28/2010	385	282	209
5/26/2010	374	252	294
6/28/2010	400	253	223
7/28/2010	332	232	205
9/29/2010	224	217	207
10/18/2010	525	577	565
11/16/2010	303	424	338
12/14/2010	313	416	330
1/14/2011	494	357	651
2/15/2011	280	298	283
3/15/2011	221	208	217

Date	SV02S	SV02M	SV02D
4/18/2011	327	270	305
5/18/2011	980	562	755
6/22/2011	184	205	162
7/27/2011	101	83	86
9/22/2011	318	268	313
10/27/2011	270	241	211
11/22/2011	235	226	183
12/16/2011	408	333	397
1/20/2012	103	111	239
2/23/2012	132	167	161
3/13/2012	222	155	58
4/16/2012	115	92	149
5/15/2012	146	145	131
6/19/2012	292	276	230
7/10/2012	206	184	194
8/14/2012	389	362	348
10/24/2012	166	139	144
11/26/2012	101	72	110
12/18/2012	106	83	97
1/31/2013	546	914	966
2/28/2013	47	26	18
3/28/2013	12	12	5
4/25/2013	13	15	18
5/30/2013	204	153	176
6/27/2013	13	15	15
7/25/2013	258	252	316
8/29/2013	165	28	11
9/26/2013	304	263	306
10/24/2013	281	271	285
11/21/2013	186	172	140
12/23/2013	21	33	61
1/30/2014	11	11	8
2/24/2014	135	51	82

ppbv: parts per billion by volume
 NC: Not collected

Figure 1
Soil Vapor Measurements
SV02



() 379020 1004

Table 2
Soil Vapor Results for SV03
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV03S	SV03M	SV03D
3/24/2008	458	248	579
5/6/2008	668	521	328
5/29/2008	652	685	458
7/3/2008	1504	1044	1024
7/31/2008	1313	1245	951
9/2/2008	1645	1458	1237
9/29/2008	4425	3982	1804
10/23/2008	1423	1261	1058
11/25/2008	1060	1417	742
1/14/2009	4658	1593	1635
2/5/2009	710	1756	1470
2/26/2009	2616	1486	822
4/1/2009	407	611	571
4/20/2009	419	573	546
5/27/2009	568	528	481
6/29/2009	592	665	662
7/20/2009	1000	971	1272
8/28/2009	615	703	587
9/24/2009	658	838	860
10/29/2009	782	816	902
11/19/2009	697	707	740
12/16/2009	553	800	632
1/28/2010	531	569	575
2/22/2010	469	641	457
3/25/2010	410	919	750
4/28/2010	478	733	642
5/26/2010	467	470	621
6/28/2010	540	645	582
6/28/2010	540	645	582
7/28/2010	504	528	520
9/29/2010	242	257	259
10/18/2010	876	691	863
11/16/2010	492	367	581
12/14/2010	178	463	732
1/14/2011	436	555	627
2/15/2011	438	474	542
3/15/2011	272	300	350

Date	SV03S	SV03M	SV03D
4/18/2011	354	316	401
5/18/2011	565	672	840
6/22/2011	386	268	328
7/27/2011	126	115	127
8/26/2011	108	94	146
9/22/2011	318	309	346
10/27/2011	246	294	269
11/22/2011	265	265	338
12/16/2011	274	218	161
1/20/2012	223	101	151
2/23/2012	150	174	190
3/13/2012	173	341	104
4/16/2012	230	100	131
5/15/2012	166	162	196
6/19/2012	329	422	402
7/10/2012	245	246	265
8/14/2012	356	365	410
10/24/2012	246	178	168
11/26/2012	108	136	139
12/18/2012	109	79	78
1/31/2013	17	12	54
2/28/2013	215	104	127
3/28/2013	52	15	42
4/25/2013	27	34	39
5/30/2013	145	160	141
6/27/2013	25	35	35
7/25/2013	179	146	145
8/29/2013	8	2	13
9/26/2013	49	27	35
10/24/2013	277	277	277
11/21/2013	128	150	129
12/23/2013	8	6	17
1/30/2014	41	46	9444
2/24/2014	70	162	5290

ppbv: parts per billion by volume

Figure 2
Soil Vapor Measurements
SV03

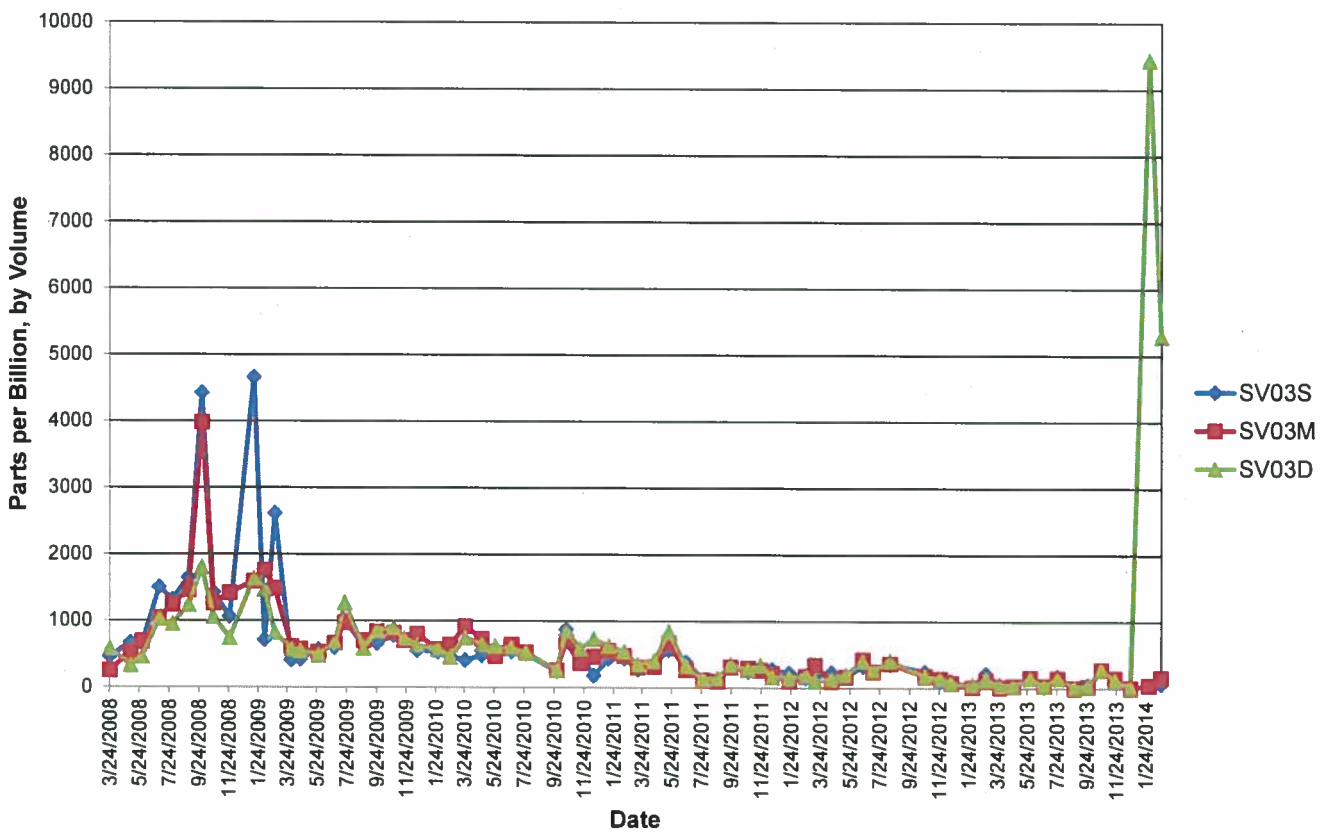


Table 3
Soil Vapor Results for SV04
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV04S	SV04M	SV04D
3/24/2008	468	641	827
5/6/2008	1076	1235	1228
5/29/2008	613	634	681
7/3/2008	696	898	806
7/31/2008	836	1009	1144
9/2/2008	972	1270	1233
9/29/2008	941	1454	1436
10/23/2008	802	1192	1321
11/25/2008	460	799	893
1/14/2009	72	1081	1138
2/5/2009	136	561	746
2/26/2009	1920	1147	847
4/1/2009	365	586	608
4/20/2009	465	662	695
5/27/2009	489	627	740
6/29/2009	526	714	796
7/20/2009	603	1354	1010
8/28/2009	511	647	751
9/24/2009	609	734	846
10/29/2009	682	931	881
11/19/2009	569	739	788
12/16/2009	464	655	726
1/28/2010	448	592	616
2/22/2010	381	555	713
3/25/2010	539	761	656
4/28/2010	505	627	683
5/26/2010	463	618	600
6/28/2010	460	582	626
7/28/2010	449	566	588
9/29/2010	297	306	318
10/18/2010	715	843	788
11/16/2010	422	644	440
12/14/2010	335	306	270
1/14/2011	568	555	633
2/15/2011	501	609	609
3/15/2011	292	375	471

Date	SV04S	SV04M	SV04D
4/18/2011	394	475	394
5/18/2011	652	983	978
6/22/2011	356	339	317
7/27/2011	102	187	162
8/26/2011	137	205	162
9/22/2011	359	373	363
10/27/2011	236	281	238
11/22/2011	337	356	345
12/16/2011	709	799	652
1/20/2012	104	121	141
2/23/2012	175	209	436
3/13/2012	146	139	114
4/16/2012	241	141	116
5/15/2012	224	228	253
6/19/2012	360	464	404
7/10/2012	276	287	289
8/14/2012	340	351	358
10/24/2012	221	162	155
11/26/2012	138	187	159
12/18/2012	85	99	66
1/31/2013	38	54	423
2/28/2013	87	79	51
3/28/2013	12	24	24
4/25/2013	28	39	36
5/30/2013	117	131	135
6/27/2013	16	23	26
7/25/2013	115	130	123
8/29/2013	121	192	190
9/26/2013	5	18	11
10/24/2013	295	285	254
11/21/2013	98	129	159
12/23/2013	4	14	11
1/30/2014	132	165	135
2/24/2014	163	149	138

ppbv: parts per billion by volume

Figure 3
Soil Vapor Measurements
SV04

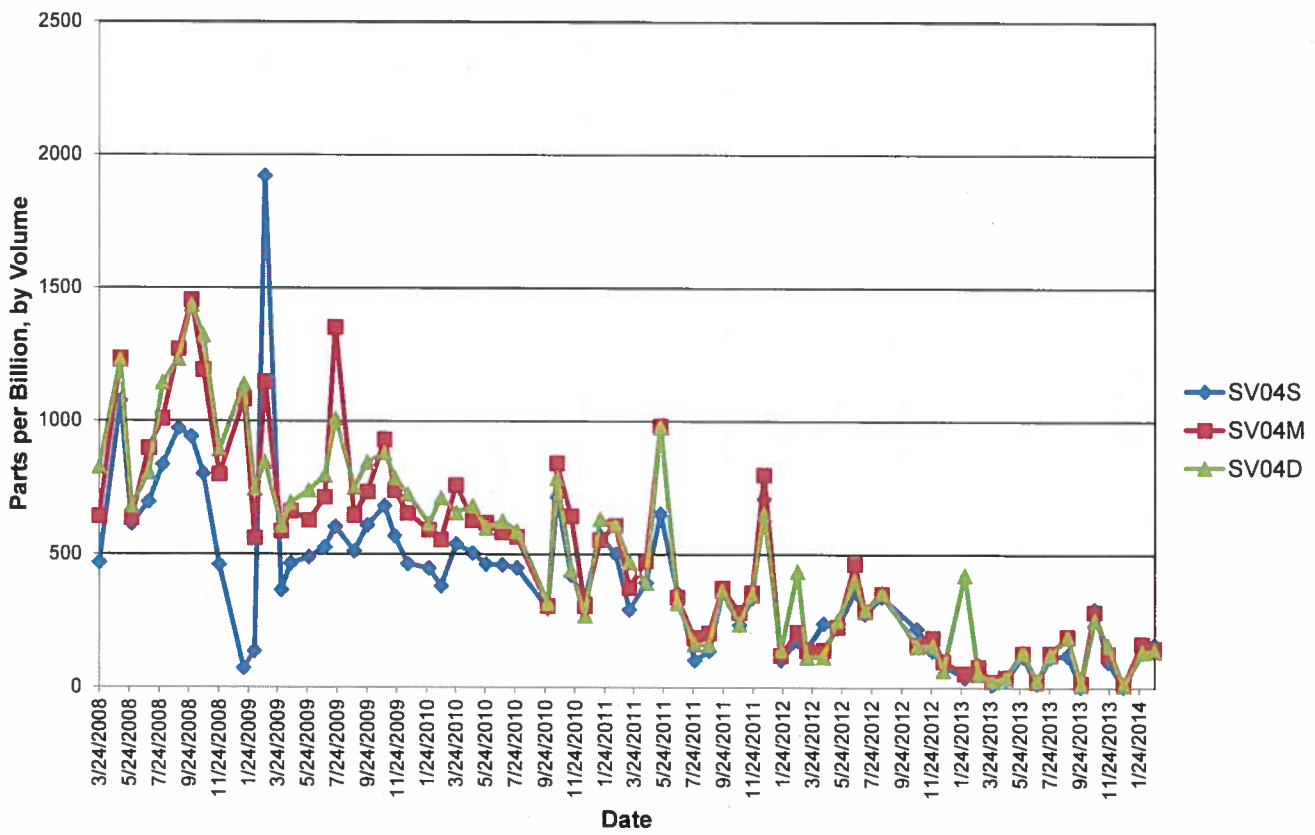


Table 4
Soil Vapor Results for SV05
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV05S	SV05M	SV05D
3/24/2008	1295	716	697
5/6/2008	5441	4214	4012
5/29/2008	6523	4636	3984
7/3/2008	5195	4218	3957
7/31/2008	5190	3785	2894
9/2/2008	6905	5581	3681
9/29/2008	7149	6405	3960
10/23/2008	3497	3690	2518
11/25/2008	3750	5221	3741
1/14/2009	9519	20567	12473
2/5/2009	1744	1824	1638
2/26/2009	7015	2820	1616
4/1/2009	1178	996	1179
4/20/2009	1209	1146	1326
5/27/2009	1120	1054	1123
6/29/2009	1055	1061	1131
7/20/2009	1237	1296	1582
8/28/2009	1776	1314	1457
9/24/2009	1901	1722	1906
10/29/2009	1430	1507	1724
11/19/2009	780	2100	2715
12/16/2009	210	2068	3418
1/28/2010	818	976	1227
2/22/2010	487	1453	2234
3/25/2010	1028	1473	1484
4/28/2010	398	1417	1532
5/26/2010	1002	980	1147
6/28/2010	64900	42100	25600
7/28/2010	38167	46633	59433
9/29/2010	NC ₁	NC ₁	NC ₁
10/18/2010	NC ₁	NC ₁	NC ₁
11/16/2010	NC ₁	NC ₁	NC ₁
12/14/2010	NC ₁	NC ₁	NC ₁
1/13/2011	NC ₁	NC ₁	NC ₁
2/15/2011	NC ₁	NC ₁	NC ₁
3/15/2011	NC ₁	NC ₁	NC ₁
4/18/2011	NC ₁	NC ₁	NC ₁
5/18/2011	NC ₁	NC ₁	NC ₁

Date	SV05S	SV05M	SV05D
6/22/2011	NC ₁	NC ₁	NC ₁
7/27/2011	NC ₁	NC ₁	NC ₁
8/26/2011	NC ₁	NC ₁	NC ₁
9/22/2011	NC ₁	NC ₁	NC ₁
10/27/2011	NC ₁	NC ₁	NC ₁
11/22/2011	NC ₁	NC ₁	NC ₁
12/16/2011	NC ₁	NC ₁	NC ₁
1/20/2012	NC ₁	NC ₁	NC ₁
2/23/2012	NC ₁	NC ₁	NC ₁
3/13/2012	NC ₁	NC ₁	NC ₁
4/16/2012	NC ₁	NC ₁	NC ₁
5/15/2012	NC ₁	NC ₁	NC ₁
6/19/2012	NC ₁	NC ₁	NC ₁
7/10/2012	NC ₁	NC ₁	NC ₁
8/14/2012	NC ₁	NC ₁	NC ₁
10/24/2012	NC ₁	NC ₁	NC ₁
11/26/2012	NC ₁	NC ₁	NC ₁
12/18/2012	NC ₁	NC ₁	NC ₁
1/31/2013	NC ₁	NC ₁	NC ₁
2/28/2013	NC ₁	NC ₁	NC ₁
3/28/2013	NC ₁	NC ₁	NC ₁
4/25/2013	NC ₁	NC ₁	NC ₁
5/30/2013	215	221	184
6/27/2013	115	233	232
7/25/2013	208	218	322
8/29/2013	63	68	161
9/26/2013	14	29	114
10/24/2013	229	250	201
11/21/2013	94	120	109
12/23/2013	50	622	794
1/15/2014	96	225000	204000
1/30/2014	818	150000	176000
2/24/2014	597	68200	100000

ppbv: parts per billion by volume
 NC₁: Not collected due to maintenance work

Figure 4
Soil Vapor Measurements
SV05

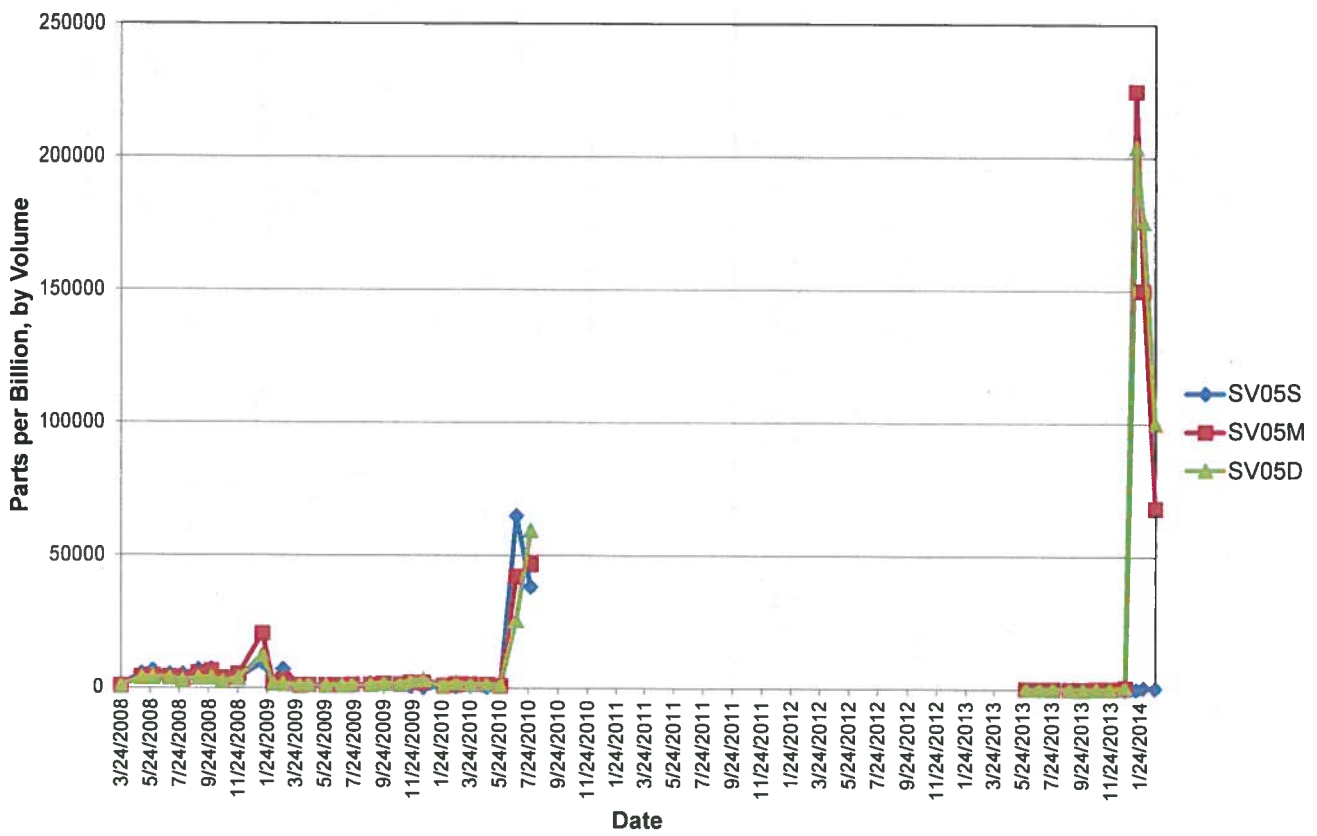


Table 5
Soil Vapor Results for SV06
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV06S	SV06M
3/24/2008	18567	8861
5/6/2008	13733	9828
5/29/2008	13333	6932
7/3/2008	10560	5075
7/31/2008	10502	3373
9/2/2008	11416	3030
9/29/2008	10456	2772
10/23/2008	8337	2255
11/25/2008	10683	2143
1/14/2009	32867	13533
2/5/2009	7624	1128
2/26/2009	7936	1160
4/1/2009	6857	688
4/20/2009	6872	692
5/27/2009	6940	535
6/29/2009	6161	584
7/20/2009	7120	860
8/28/2009	5901	1075
9/24/2009	6917	1417
10/29/2009	5430	1027
11/19/2009	6129	2937
12/16/2009	5549	2673
1/28/2010	5721	559
2/22/2010	4841	2775
3/25/2010	5709	1043
4/28/2010	5905	1997
5/26/2010	4483	1261
6/28/2010	4800	1539
7/28/2010	4347	1693
9/29/2010	1090	457
10/18/2010	675	1084
11/16/2010	1142	413
12/14/2010	2043	646
1/14/2011	566	1282
2/15/2011	2245	352
3/15/2011	2542	173
4/18/2011	2412	484

Date	SV06S	SV06M
5/18/2011	2343	613
6/22/2011	221	1558
7/27/2011	100	909
8/26/2011	210	924
9/22/2011	380	1385
10/27/2011	189	1155
11/22/2011	200	1098
12/16/2011	621	651
1/20/2012	342	537
2/23/2012	943	348
3/13/2012	330	816
4/16/2012	357	756
5/15/2012	699	462
6/19/2012	384	498
7/10/2012	305	373
8/14/2012	476	417
10/24/2012	225	474
11/26/2012	NC ₁	NC ₁
12/18/2012	NC ₁	NC ₁
1/31/2013	NC ₁	NC ₁
2/28/2013	NC ₁	NC ₁
3/28/2013	NC ₁	NC ₁
4/25/2013	NC ₁	NC ₁
5/30/2013	NC ₁	NC ₁
6/27/2013	143	378
7/25/2013	280	742
8/29/2013	131	1066
9/26/2013	9	566
10/24/2013	1291	1485
11/21/2013	160	322
12/23/2013	3	39
1/30/2014	6424	4097
2/24/2014	3046	1457

ppbv: parts per billion by volume
 NC₁: Not collected due to maintenance work

Figure 5
Soil Vapor Measurements
SV06

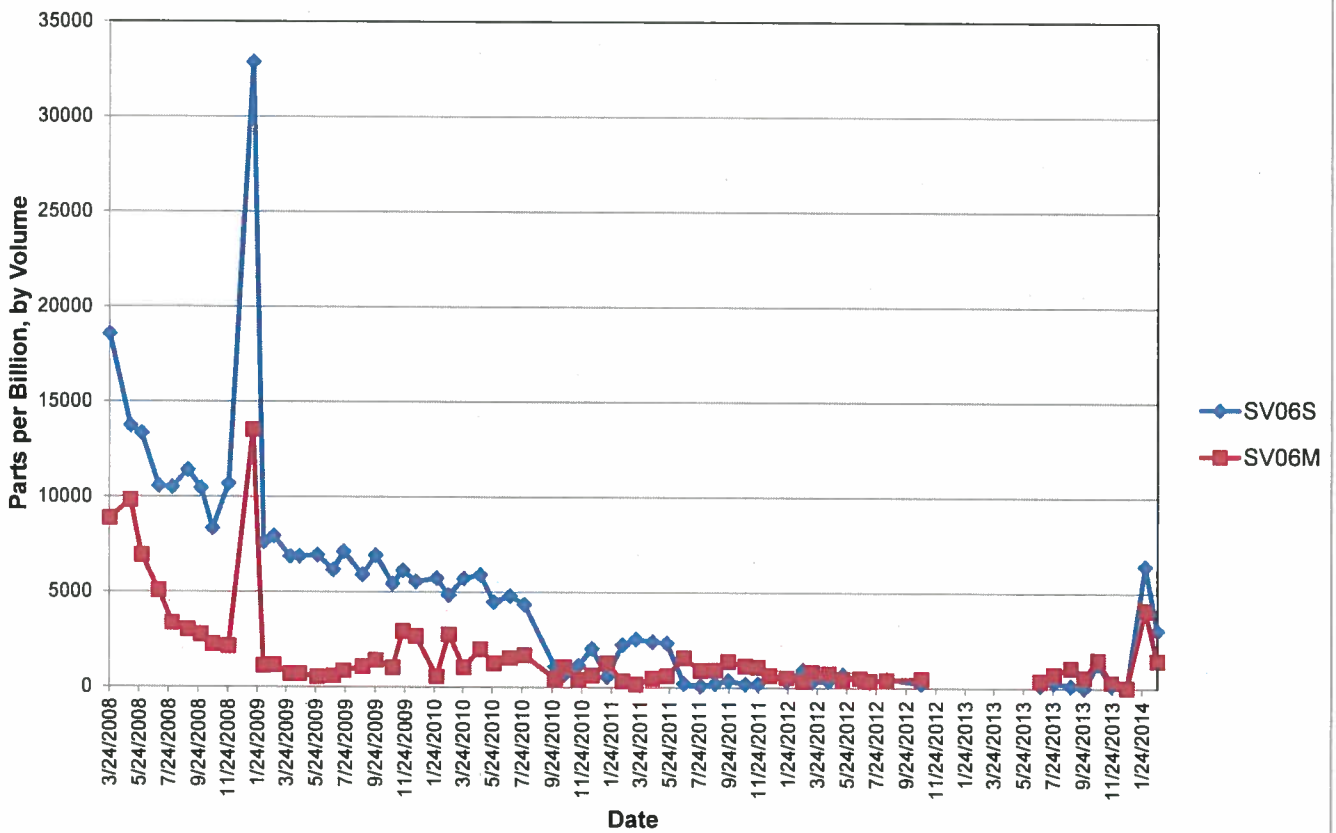


Table 6
Soil Vapor Results for SV07
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV07S	SV07M	SV07D
3/24/2008	981	1966	21667
5/6/2008	5331	9047	12433
5/29/2008	NC	8698	12867
7/3/2008	6074	8759	16000
7/31/2008	4572	6737	20367
9/2/2008	4852	7576	21067
9/29/2008	4786	8620	22100
10/23/2008	3224	5459	21733
11/25/2008	1894	4069	12867
1/14/2009	2707	2567	10667
2/5/2009	1208	1780	7718
2/26/2009	7846	3623	9532
4/1/2009	1227	1268	12033
4/20/2009	1334	1434	12700
5/27/2009	1144	1353	18233
6/29/2009	1107	1184	9743
7/20/2009	1660	1595	11667
8/28/2009	1550	1207	3078
9/24/2009	1716	1481	2213
10/29/2009	1042	1214	6121
11/19/2009	657	1210	5342
12/16/2009	599	875	12633
1/28/2010	1032	872	4079
2/22/2010	444	728	3519
3/25/2010	762	886	16200
4/28/2010	288	689	2365
5/26/2010	782	731	3244
6/28/2010	629	628	1786
7/28/2010	703	801	6775
9/29/2010	344	363	372
10/18/2010	839	685	712
11/16/2010	701	288	356
12/14/2010	369	335	323
1/13/2011	210	283	451
2/15/2011	550	351	364
3/15/2011	267	255	296
4/18/2011	321	326	333

Date	SV07S	SV07M	SV07D
5/18/2011	851	871	900
6/22/2011	279	475	274
7/27/2011	137	342	166
8/26/2011	96	132	135
9/22/2011	298	443	361
10/27/2011	310	537	351
11/22/2011	249	431	311
12/16/2011	424	157	114
1/20/2012	96	356	133
2/23/2012	153	213	148
3/13/2012	68	782	144
4/16/2012	258	708	385
5/15/2012	148	1877	394
6/19/2012	421	686	483
7/10/2012	288	638	388
8/14/2012	348	680	477
10/24/2012	232	552	278
11/26/2012	88	87	100
12/18/2012	NC ₁	NC ₁	NC ₁
1/31/2013	NC ₁	NC ₁	NC ₁
2/28/2013	NC ₁	NC ₁	NC ₁
3/28/2013	NC ₁	NC ₁	NC ₁
4/25/2013	NC ₁	NC ₁	NC ₁
5/30/2013	NC ₁	NC ₁	NC ₁
6/27/2013	234	676	273
7/25/2013	164	583	232
8/29/2013	173	104	38
9/26/2013	7	253	7
10/24/2013	281	396	228
11/21/2013	122	122	191
12/23/2013	2	8	5
1/30/2014	6350	6539	5180
2/24/2014	1187	849	690

ppbv: parts per billion by volume
 NC₁: Not collected due to maintenance work

Figure 6
Soil Vapor Measurements
SV07

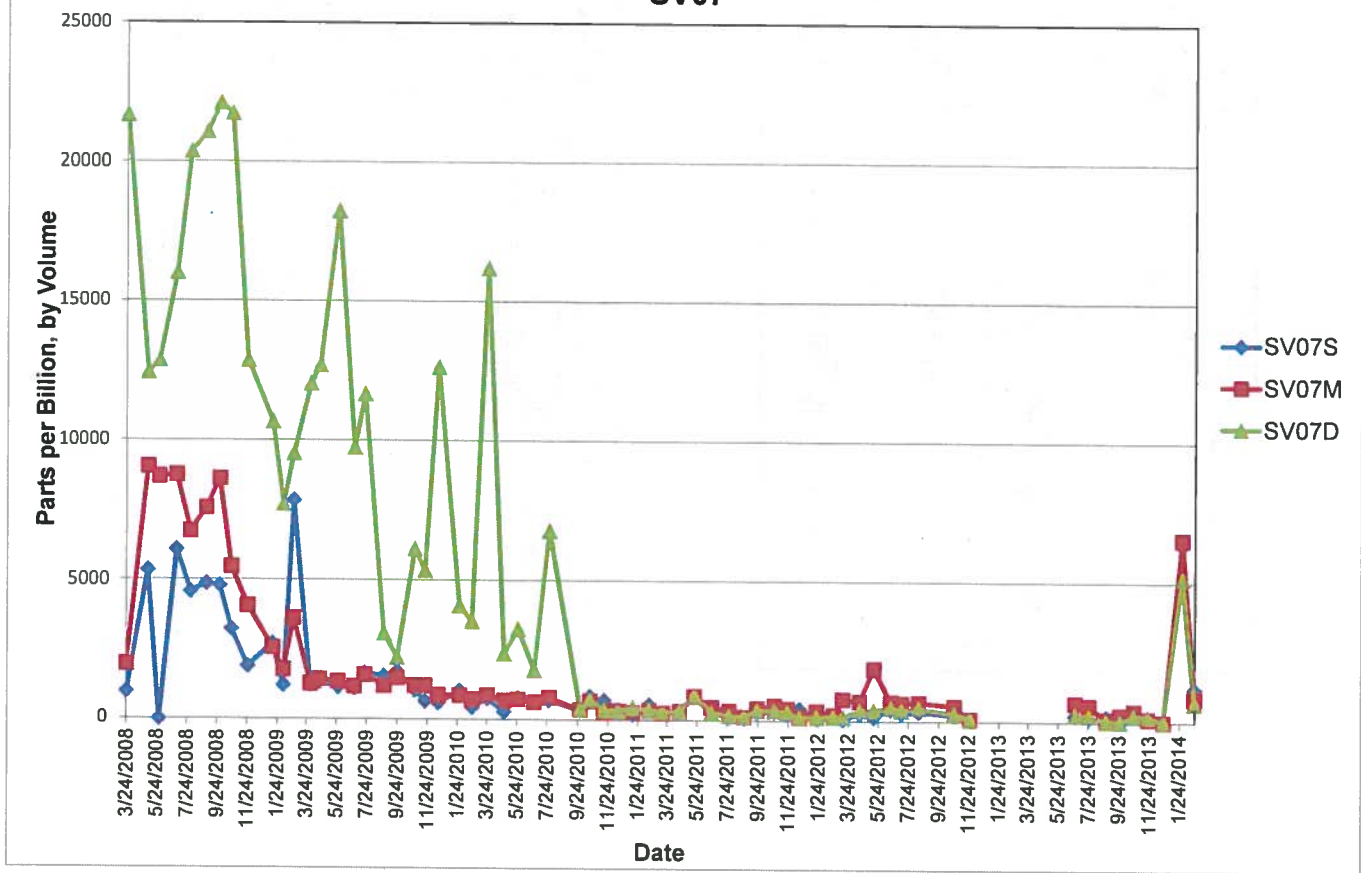


Table 7
Soil Vapor Results for SV08
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV08S	SV08M	SV08D
3/24/2008	324	353	428
5/6/2008	4266	3274	2286
5/29/2008	541	607	482
7/3/2008	1764	1730	1397
7/31/2008	602	804	684
9/2/2008	1463	1605	1051
9/29/2008	2397	1859	1152
10/23/2008	1358	1119	866
11/25/2008	2780	2166	1393
1/14/2009	7153	6517	4762
2/5/2009	1211	1263	797
2/26/2009	1289	1019	669
4/1/2009	310	416	367
4/20/2009	400	484	454
5/27/2009	258	367	358
6/29/2009	464	491	474
7/20/2009	612	690	727
8/28/2009	450	546	563
9/24/2009	627	726	752
10/29/2009	617	697	762
11/19/2009	779	860	877
12/16/2009	1157	1247	1382
1/28/2010	508	579	621
2/22/2010	690	727	840
3/25/2010	555	573	612
4/28/2010	688	742	756
5/26/2010	477	560	553
6/28/2010	525	607	609
7/28/2010	515	539	610
9/29/2010	295	345	352
10/18/2010	582	1221	988
11/16/2010	629	612	740
12/14/2010	488	657	471
1/13/2011	556	796	862
2/15/2011	431	485	541
3/15/2011	169	284	304
4/18/2011	364	456	489

Date	SV08S	SV08M	SV08D
5/18/2011	909	1222	1263
6/22/2011	172	412	266
7/27/2011	99	139	320
8/26/2011	84	157	180
9/22/2011	277	301	309
10/27/2011	250	338	309
11/22/2011	177	268	355
12/16/2011	67	211	162
1/20/2012	169	105	340
2/23/2012	222	222	129
3/13/2012	85	134	391
4/16/2012	485	204	377
5/15/2012	106	157	153
6/19/2012	428	466	418
7/10/2012	291	325	290
8/14/2012	296	285	285
10/24/2012	214	216	400
11/26/2012	53	76	51
12/18/2012	NC ₁	NC ₁	NC ₁
1/31/2013	NC ₁	NC ₁	NC ₁
2/28/2013	NC ₁	NC ₁	NC ₁
3/28/2013	NC ₁	NC ₁	NC ₁
4/25/2013	NC ₁	NC ₁	NC ₁
5/30/2013	NC ₁	NC ₁	NC ₁
6/27/2013	224	235	402
7/25/2013	133	176	132
8/29/2013	16	28	19
9/26/2013	15	2	2
10/24/2013	207	2013	197
11/21/2013	76	73	88
12/23/2013	4	2	6
1/30/2014	2170	2698	2952
2/24/2014	601	423	428

ppbv: parts per billion by volume
 NC₁: Not collected due to maintenance work

Figure 7
Soil Vapor Measurements
SV08

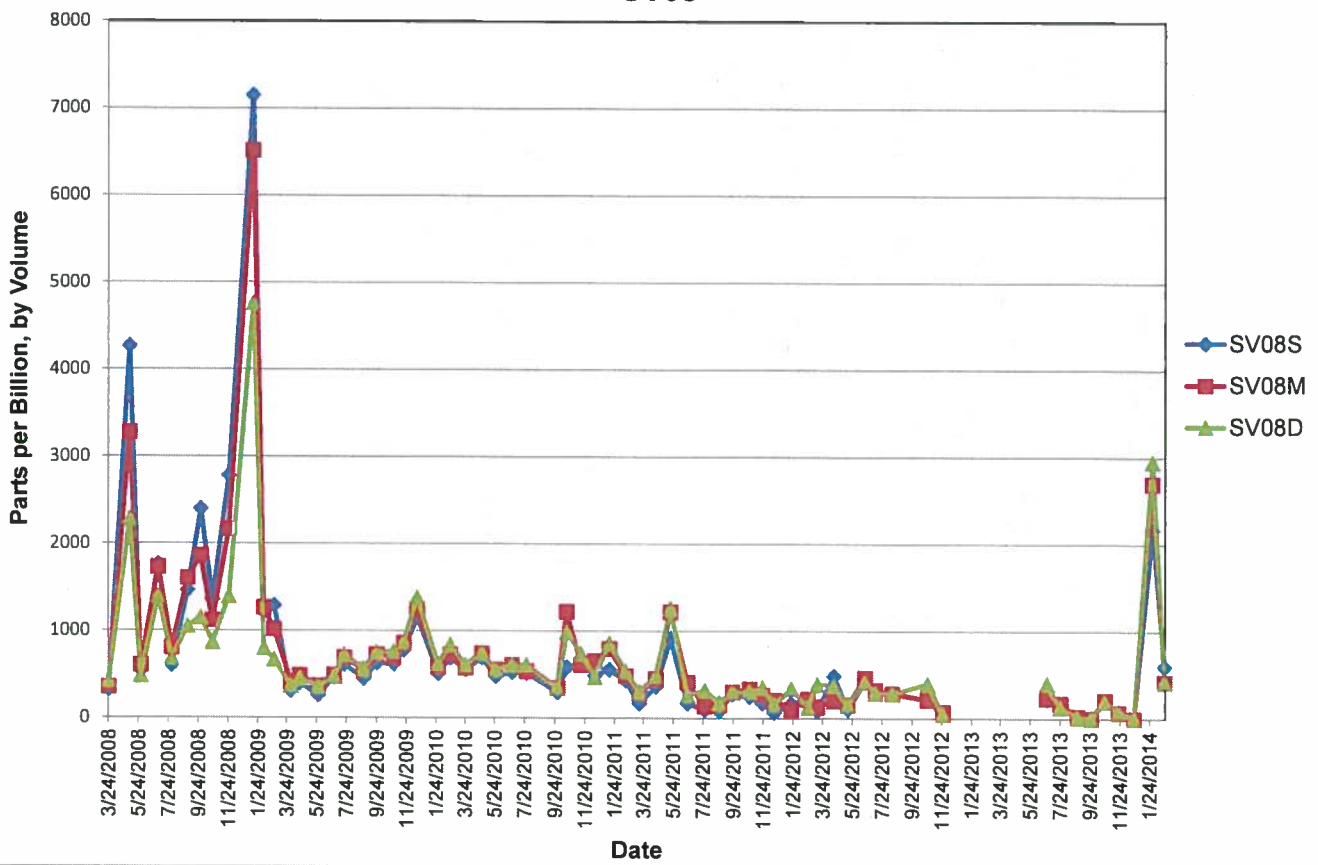


Table 8
Soil Vapor Results for SV09
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV08S	SV08M	SV08D
3/24/2008	309	405	NC
5/6/2008	6462	7644	654
5/29/2008	878	825	451
7/3/2008	4190	4238	2301
7/31/2008	1024	961	646
9/2/2008	1949	1616	1047
9/29/2008	2714	2058	1232
10/23/2008	1458	1114	673
11/25/2008	2142	1855	1134
1/14/2009	4851	3250	NC
2/5/2009	786	457	NC
2/26/2009	930	503	NC
4/1/2009	241	233	NC
4/20/2009	329	361	NC
5/27/2009	234	326	183
6/29/2009	400	425	342
7/20/2009	566	645	704
8/28/2009	434	515	512
9/24/2009	663	708	630
10/29/2009	689	710	709
11/19/2009	861	898	928
12/16/2009	1084	1176	1410
1/28/2010	421	473	510
2/22/2010	659	716	877
3/25/2010	555	625	670
4/28/2010	575	743	858
5/26/2010	461	519	543
6/28/2010	531	590	627
7/28/2010	455	549	630
9/29/2010	304	357	377
10/18/2010	592	700	923
11/16/2010	488	567	607
12/14/2010	437	495	633
1/13/2011	574	572	668
2/15/2011	407	405	586
3/15/2011	261	312	NC ₂
4/18/2011	320	365	NC ₂
5/18/2011	918	1102	NC ₂

Date	SV08S	SV08M	SV08D
6/22/2011	223	141	NC ₂
7/27/2011	181	158	NC ₂
8/26/2011	122	100	NC ₂
9/22/2011	302	296	NC ₂
10/27/2011	270	271	NC ₂
11/22/2011	180	243	NC ₂
12/16/2011	170	80	379
1/20/2012	80	148	NC ₂
2/23/2012	130	135	110
3/13/2012	73	360	NC ₂
4/16/2012	344	1212	NC ₂
5/15/2012	137	122	NC ₂
6/19/2012	626	518	NC ₂
7/10/2012	325	298	NC ₂
8/14/2012	339	350	NC ₂
10/24/2012	204	335	208
11/26/2012	72	60	78
12/18/2012	63	83	87
1/31/2013	16	13	66
2/28/2013	58	20	133
3/28/2013	47	37	14
4/25/2013	42	42	59
5/30/2013	226	189	184
6/27/2013	38	39	47
7/25/2013	110	119	184
8/29/2013	8	39	23
9/26/2013	0	3	2
10/24/2013	200	170	167
11/21/2013	89	127	133
12/23/2013	13	8	2
1/30/2014	1488	1963	2408
2/24/2014	307	330	319

ppbv: parts per billion by volume
 NC: Not collected
 NC₂: Not collected due to an obstruction in the vapor line

Figure 8
Soil Vapor Measurements
SV09

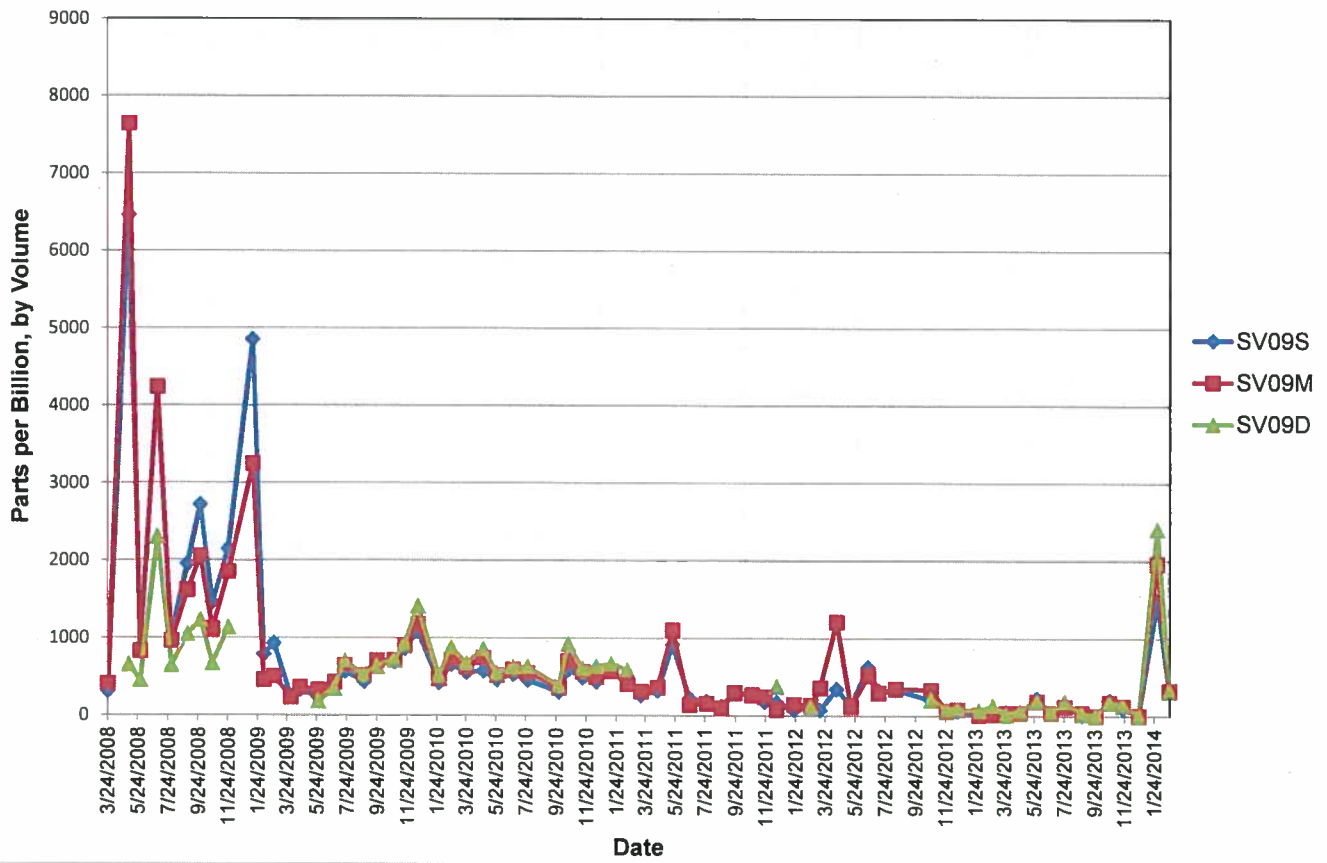


Table 9
Soil Vapor Results for SV10
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV10S	SV10D
3/24/2008	246	158
5/6/2008	5368	3713
5/29/2008	521	316
7/3/2008	3212	1677
7/31/2008	855	443
9/2/2008	1410	848
9/29/2008	2266	1205
10/23/2008	1043	646
11/25/2008	1825	860
1/14/2009	5568	2867
2/5/2009	957	423
2/26/2009	798	270
4/1/2009	194	135
4/20/2009	241	174
5/27/2009	194	110
6/29/2009	312	258
7/20/2009	340	424
8/28/2009	352	302
9/24/2009	539	479
10/29/2009	546	496
11/19/2009	751	604
12/16/2009	1093	1141
1/28/2010	356	333
2/22/2010	711	708
3/25/2010	521	815
4/28/2010	662	695
5/26/2010	420	337
6/28/2010	440	402
7/28/2010	417	994
9/29/2010	288	273
10/18/2010	639	686
11/16/2010	454	625
12/14/2010	385	335
1/13/2011	467	501
2/15/2011	310	302
3/15/2011	222	246

Date	SV10S	SV10D
4/18/2011	288	297
5/18/2011	979	1077
6/22/2011	103	216
7/27/2011	82	88
8/26/2011	64	97
9/22/2011	260	301
10/27/2011	245	204
11/22/2011	189	195
12/16/2011	141	92
1/20/2012	224	196
2/23/2012	139	112
3/13/2012	387	283
4/16/2012	323	201
5/15/2012	75	87
6/19/2012	319	306
7/10/2012	288	353
8/14/2012	220	225
10/24/2012	164	130
11/26/2012	51	41
12/18/2012	16	36
1/31/2013	11	2
2/28/2013	91	83
3/28/2013	23	20
4/25/2013	31	40
5/30/2013	91	301
6/27/2013	137	301
7/25/2013	100	61
8/29/2013	529	1621
9/26/2013	0	3
10/24/2013	191	167
11/21/2013	69	76
12/23/2013	7	12
1/30/2014	483	358
2/24/2014	165	147

ppbv: parts per billion by volume

Figure 9
Soil Vapor Measurements
SV10

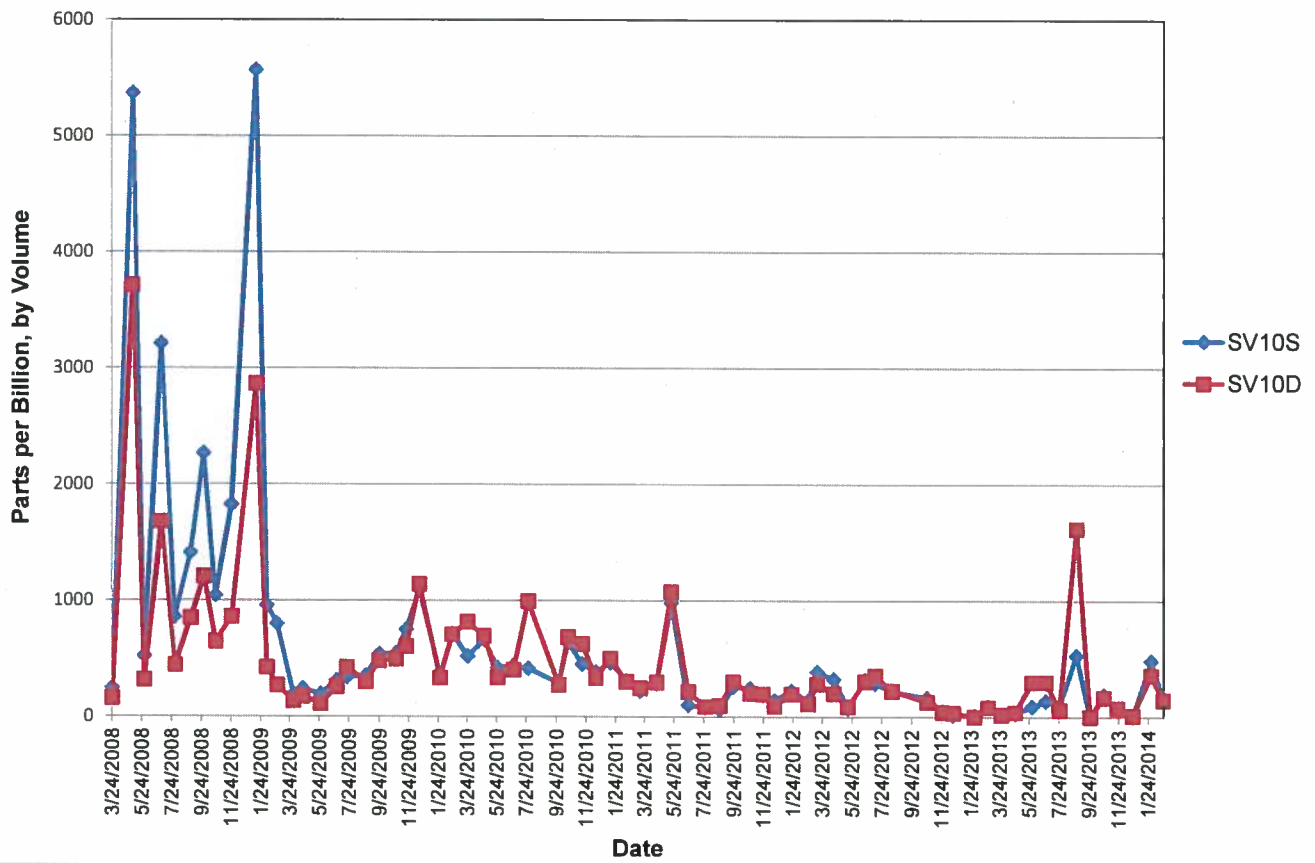


Table 10
Soil Vapor Results for SV11
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV11M	SV11D
3/24/2008	304	419
5/6/2008	2770	NC ₂
5/29/2008	1507	NC ₂
7/3/2008	2318	NC ₂
7/31/2008	1409	NC ₂
9/2/2008	3459	NC ₂
9/29/2008	3157	NC ₂
10/23/2008	1234	NC ₂
11/25/2008	1238	NC ₂
1/14/2009	2123	NC ₂
2/5/2009	425	NC ₂
2/26/2009	298	NC ₂
4/1/2009	117	NC ₂
4/20/2009	333	NC ₂
5/27/2009	210	NC ₂
6/29/2009	364	NC ₂
7/20/2009	462	NC ₂
8/28/2009	403	NC ₂
9/24/2009	763	NC ₂
10/29/2009	734	NC ₂
11/19/2009	744	NC ₂
12/16/2009	1142	NC ₂
1/28/2010	396	NC ₂
2/22/2010	619	NC ₂
3/25/2010	847	NC ₂
4/28/2010	738	NC ₂
5/26/2010	880	NC ₂
6/28/2010	444	NC ₂
7/28/2010	440	NC ₂
9/29/2010	321	NC ₂
10/18/2010	720	NC ₂
11/16/2010	326	NC ₂
12/14/2010	198	NC ₂
1/13/2011	418	NC ₂
2/15/2011	343	NC ₂
3/15/2011	224	NC ₂
4/18/2011	260	NC ₂

Date	SV11M	SV11D
5/18/2011	920	NC ₂
6/22/2011	183	NC ₂
7/27/2011	145	NC ₂
8/26/2011	86	NC ₂
9/22/2011	333	NC ₂
10/27/2011	290	NC ₂
11/22/2011	183	NC ₂
12/16/2011	75	NC ₂
1/20/2012	272	NC ₂
2/23/2012	135	NC ₂
3/13/2012	144	NC ₂
4/16/2012	157	NC ₂
5/15/2012	66	NC ₂
6/19/2012	347	NC ₂
7/10/2012	252	NC ₂
8/14/2012	342	NC ₂
10/24/2012	163	303
11/26/2012	121	45
12/18/2012	31	35
1/31/2013	0	10
2/28/2013	9	100
3/28/2013	14	NC ₂
4/25/2013	44	NC ₂
5/30/2013	122	158
6/27/2013	27	NC ₂
7/25/2013	138	NC ₂
8/29/2013	784	448
9/26/2013	52	NC ₂
10/24/2013	321	NC ₂
11/21/2013	471	NC ₂
12/23/2013	14	NC ₂
1/30/2014	374	NC ₂
2/24/2014	307	NC ₂

ppbv: parts per billion by volume
 NC₂: Not collected due to an
 obstruction in the vapor line

Figure 10
Soil Vapor Measurements
SV11

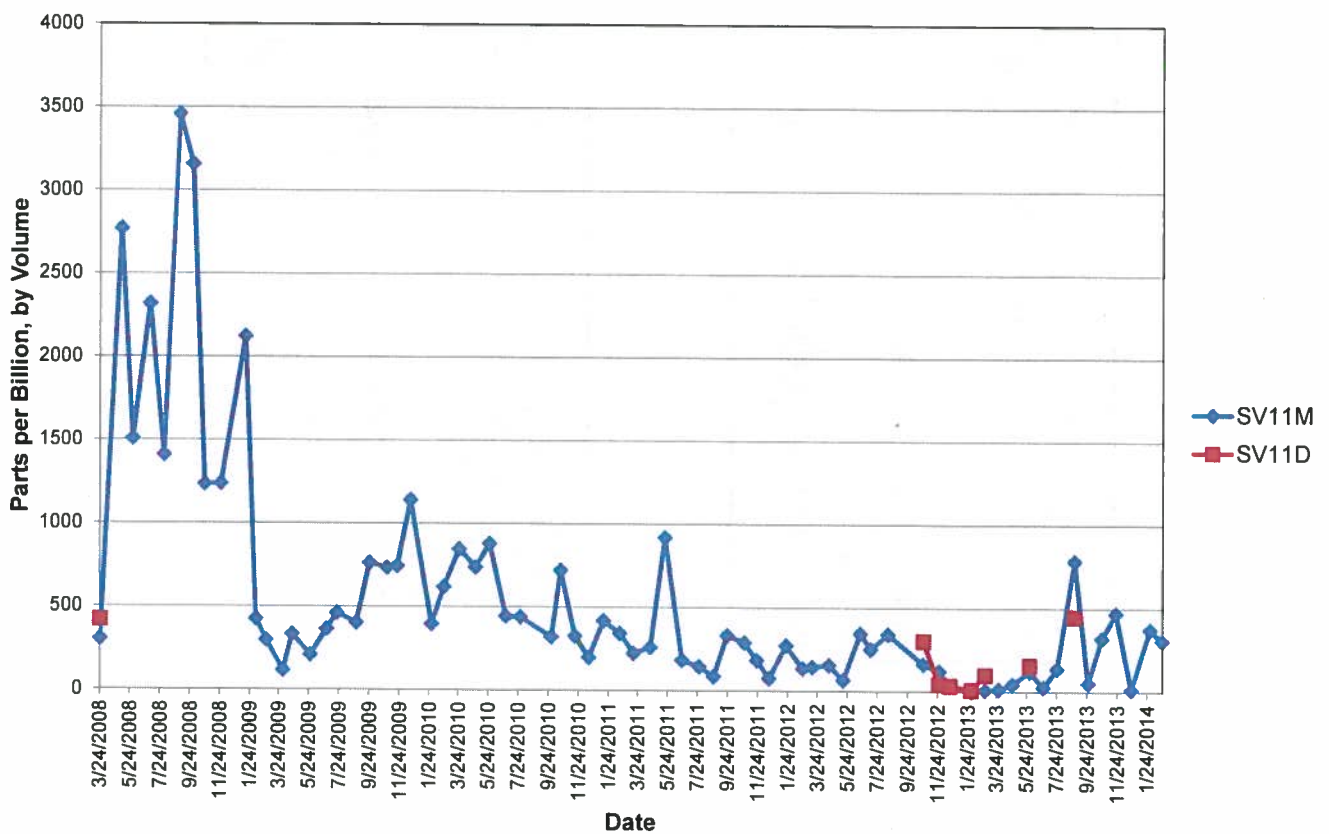


Table 11
Soil Vapor Results for SV12
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV12S	SV12M	SV12D
3/24/2008	231	183	191
5/6/2008	6055	5542	3161
5/29/2008	3915	2840	1461
7/3/2008	5374	3809	2209
7/31/2008	4420	4202	989
9/2/2008	5132	5948	2929
9/29/2008	5794	5435	2544
10/23/2008	2237	2067	471
11/25/2008	1376	2066	532
1/14/2009	-1	-1	11
2/5/2009	46	210	226
2/26/2009	463	257	266
4/1/2009	122	120	149
4/20/2009	245	229	244
5/27/2009	162	95	113
6/29/2009	274	245	257
7/20/2009	402	354	510
8/28/2009	360	304	326
9/24/2009	680	621	542
10/29/2009	675	651	597
11/19/2009	1058	273	280
12/16/2009	311	43	50
1/28/2010	279	281	336
2/22/2010	12	14	104
3/25/2010	265	569	467
4/28/2010	175	401	444
5/26/2010	439	403	319
6/28/2010	341	351	383
7/28/2010	397	280	346
9/29/2010	276	247	283
10/18/2010	722	668	560
11/16/2010	12	146	252
12/14/2010	251	242	272
1/13/2011	333	195	221
2/15/2011	357	331	312
3/15/2011	317	339	228

Date	SV12S	SV12M	SV12D
4/18/2011	278	269	285
5/18/2011	943	988	1005
6/22/2011	274	278	228
7/27/2011	78	84	132
8/26/2011	134	111	80
9/22/2011	279	347	1631
10/27/2011	237	256	243
11/22/2011	303	280	244
12/16/2011	69	185	154
1/20/2012	103	200	297
2/23/2012	145	148	104
3/13/2012	231	190	423
4/16/2012	116	95	123
5/15/2012	115	98	130
6/19/2012	303	309	315
7/10/2012	337	288	345
8/14/2012	285	258	228
10/24/2012	153	140	135
11/26/2012	21	29	34
12/15/2012	12	23	17
1/31/2013	6	8	7
2/28/2013	98	54	14
3/28/2013	10	16	9
4/25/2013	31	62	35
5/30/2013	73	46	39
6/27/2013	39	32	44
7/25/2013	70	101	66
8/29/2013	75	8	270
9/26/2013	8	8	4
10/24/2013	192	221	198
11/21/2013	140	124	110
12/23/2013	11	4	2
1/30/2014	270	200	264
2/24/2014	135	148	215

ppbv: parts per billion by volume

Figure 11
Soil Vapor Measurements
SV12

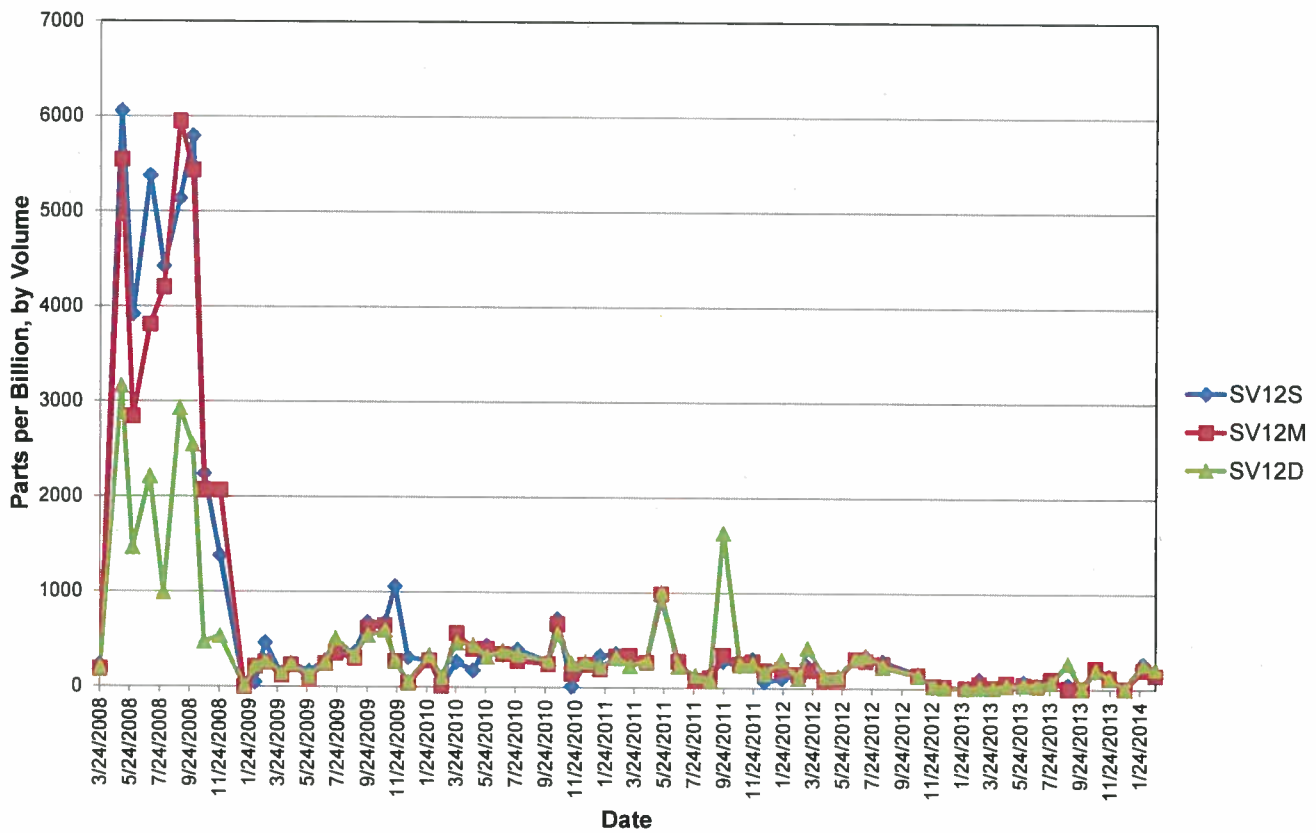


Table 12
Soil Vapor Results for SV13
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV13S	SV13M	SV13D
3/24/2008	283	385	1195
5/6/2008	177	258	640
5/29/2008	3108	2384	1792
7/3/2008	3464	2566	1880
7/31/2008	3469	2529	1421
9/2/2008	5475	4141	2931
9/29/2008	4872	3471	1978
10/23/2008	1504	1148	838
11/25/2008	2961	2176	1256
1/14/2009	2832	4390	8757
2/5/2009	250	453	815
2/26/2009	713	596	604
4/1/2009	154	230	362
4/20/2009	294	340	492
5/27/2009	202	280	452
6/29/2009	353	387	516
7/20/2009	402	493	667
8/28/2009	360	464	622
9/24/2009	554	648	791
10/29/2009	674	800	1016
11/19/2009	774	904	1622
12/16/2009	507	729	2026
1/28/2010	334	410	542
2/22/2010	254	315	792
3/25/2010	414	483	863
4/28/2010	3406	4463	1736
5/26/2010	438	513	600
6/28/2010	418	503	637
7/28/2010	417	508	661
9/29/2010	258	306	382
10/18/2010	585	632	737
11/16/2010	386	500	626
12/14/2010	422	562	572
1/13/2011	577	825	878
2/15/2011	513	429	565
3/15/2011	255	306	434

Date	SV13S	SV13M	SV13D
4/18/2011	318	364	501
5/18/2011	1374	1557	1915
6/22/2011	290	253	370
7/27/2011	159	132	150
8/26/2011	154	151	207
9/22/2011	283	352	390
10/27/2011	206	217	361
11/22/2011	177	264	394
12/16/2011	860	125	107
1/20/2012	69	229	170
2/23/2012	115	116	201
3/13/2012	82	83	282
4/16/2012	122	85	161
5/15/2012	152	103	233
6/19/2012	266	373	382
7/10/2012	252	256	369
8/14/2012	121	287	334
10/24/2012	152	138	195
11/26/2012	59	43	20
12/18/2012	42	2	9
1/31/2013	3	0	2
2/28/2013	25	44	38
3/28/2013	32	7	4
4/25/2013	18	25	43
5/30/2013	39	40	39
6/27/2013	36	35	44
7/25/2013	77	81	148
8/29/2013	0	205	255
9/26/2013	0	3	0
10/24/2013	206	183	186
11/21/2013	83	66	68
12/23/2013	9	6	11
1/30/2014	440	929	1109
2/24/2014	116	98	99

ppbv: parts per billion by volume

Figure 12
Soil Vapor Measurements
SV13

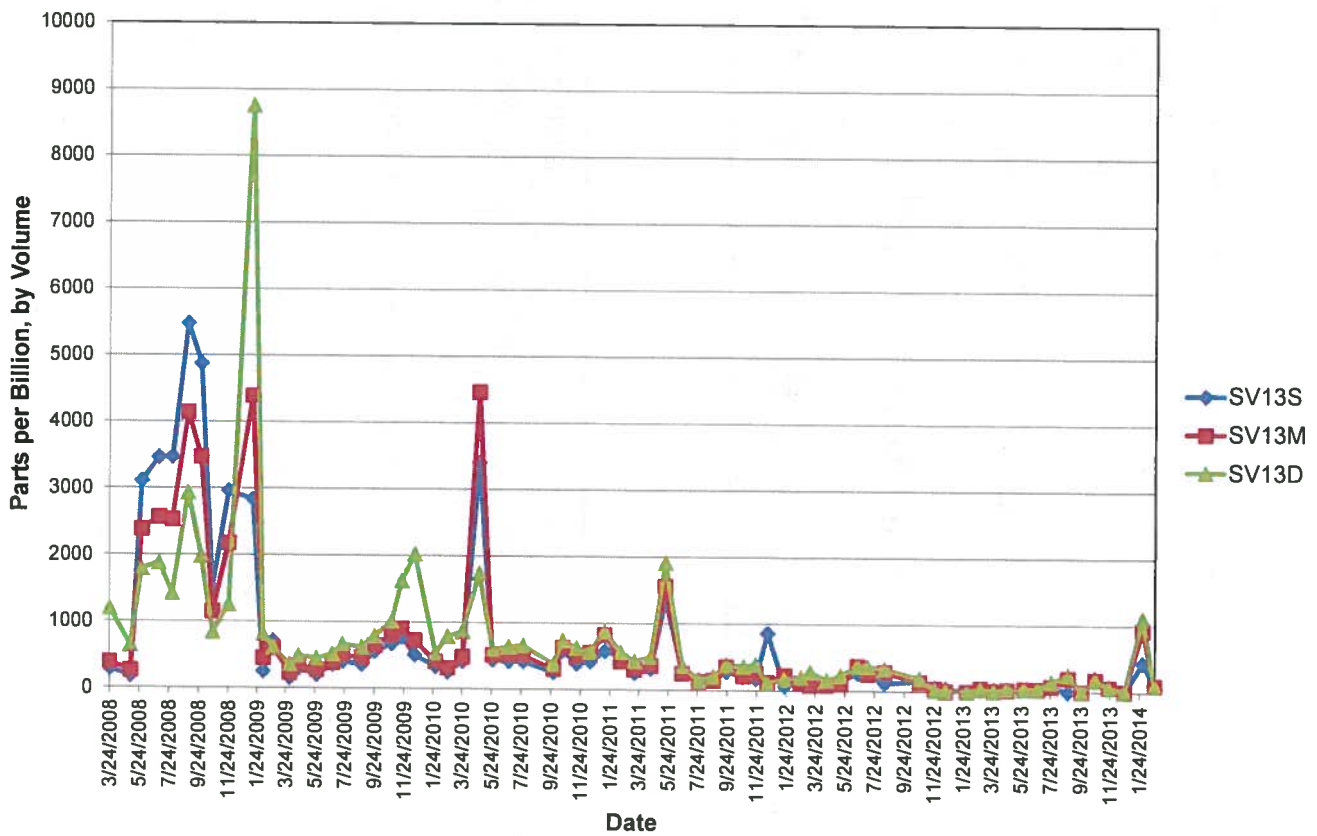


Table 13
Soil Vapor Results for SV14
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV14S	SV14M	SV14D
3/24/2008	NC	NC	347
5/6/2008	761	2302	438
5/29/2008	728	2056	619
7/3/2008	1898	2816	620
7/31/2008	698	2204	871
9/2/2008	868	2325	960
9/29/2008	480	2101	1359
10/23/2008	106	2477	663
11/25/2008	86	2666	705
1/14/2009	0	2977	4798
2/5/2009	27	3042	596
2/26/2009	8	3080	746
4/1/2009	225	3971	468
4/20/2009	267	3385	506
5/27/2009	154	3392	477
6/29/2009	184	2912	588
7/20/2009	408	3312	692
8/28/2009	617	3080	674
9/24/2009	646	3903	858
10/29/2009	378	3199	795
11/19/2009	63	3249	756
12/16/2009	0	3417	854
1/28/2010	349	3550	589
2/22/2010	72	2795	481
3/25/2010	312	4006	676
4/28/2010	83	3617	666
5/26/2010	405	4383	751
6/28/2010	387	5258	789
7/28/2010	375	5447	753
9/29/2010	280	334	255
10/18/2010	567	597	498
11/16/2010	152	438	431
12/14/2010	248	176	452
1/13/2011	539	604	473
2/15/2011	359	525	522
3/15/2011	228	217	311
4/18/2011	128	460	550

Date	SV14S	SV14M	SV14D
5/18/2011	1049	1481	1767
6/22/2011	242	266	306
7/27/2011	67	109	158
8/26/2011	89	169	254
9/22/2011	88	58	112
10/27/2011	142	148	236
11/22/2011	162	189	257
12/16/2011	61	156	72
1/20/2012	48	105	71
2/23/2012	127	133	180
3/13/2012	140	514	89
4/16/2012	222	68	77
5/15/2012	72	190	124
6/19/2012	356	352	406
7/10/2012	238	241	292
8/14/2012	179	234	237
10/24/2012	123	157	128
11/26/2012	7	13	11
12/18/2012	2	2	5
1/31/2013	0	4	6
2/28/2013	5	518	84
3/28/2013	12	16	5
4/25/2013	14	29	20
5/30/2013	25	112	47
6/27/2013	29	280	39
7/25/2013	58	124	87
8/29/2013	426	53	862
9/26/2013	8	12	4
10/24/2013	170	170	160
11/21/2013	75	70	69
12/23/2013	NC ₁	NC ₁	NC ₁
1/30/2014	NC ₁	NC ₁	NC ₁
2/24/2014	NC ₁	NC ₁	NC ₁

ppbv: parts per billion by volume
 NC: Not collected
 NC₁: Not collected due to maintenance work

Figure 13
Soil Vapor Measurements
SV14

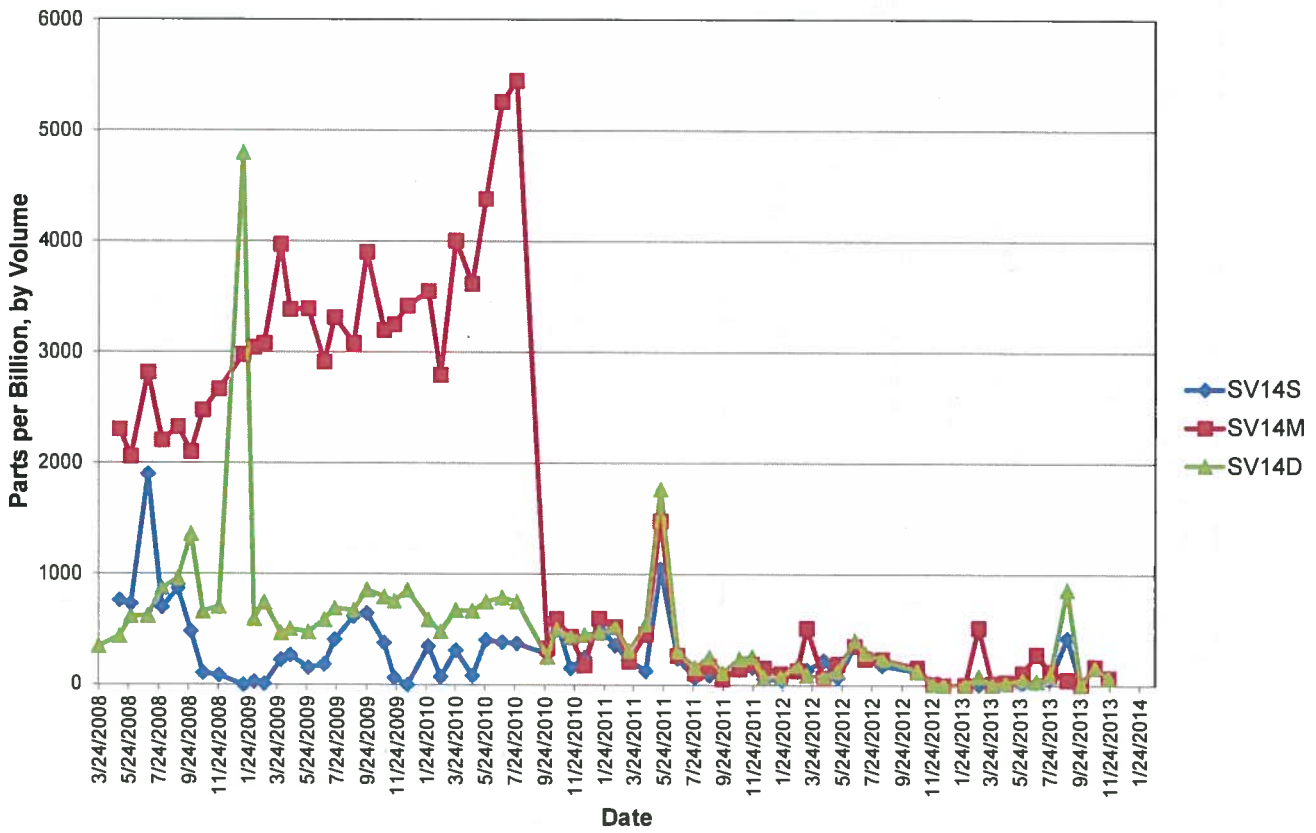


Table 14
Soil Vapor Results for SV15
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV15S	SV15M	SV15D
3/24/2008	318	600	415
5/6/2008	831	709	478
5/29/2008	763	2082	1135
7/3/2008	1541	1073	649
7/31/2008	2349	2076	1540
9/2/2008	2585	2087	1510
9/29/2008	4746	3991	2496
10/23/2008	1905	1711	1116
11/25/2008	2886	2483	1045
1/14/2009	7650	6457	4743
2/5/2009	1892	1182	904
2/26/2009	605	448	324
4/1/2009	175	249	247
4/20/2009	288	343	351
5/27/2009	194	251	216
6/29/2009	367	417	882
7/20/2009	383	457	977
8/28/2009	328	388	711
9/24/2009	475	569	759
10/29/2009	472	571	708
11/19/2009	442	483	673
12/16/2009	182	200	541
1/28/2010	346	779	527
2/22/2010	204	NC ₂	442
3/25/2010	806	NC ₂	542
4/28/2010	451	NC ₂	599
5/26/2010	407	NC ₂	608
6/28/2010	378	NC ₂	592
7/28/2010	353	NC ₂	623
9/29/2010	264	NC ₂	328
10/18/2010	552	NC ₂	677
11/16/2010	550	NC ₂	605
12/14/2010	556	NC ₂	544
1/13/2011	539	NC ₂	625
2/15/2011	439	NC ₂	552
3/15/2011	289	NC ₂	367
4/18/2011	264	NC ₂	368
5/18/2011	2031	NC ₂	2864

Date	SV15S	SV15M	SV15D
6/22/2011	285	NC ₂	314
7/27/2011	164	NC ₂	193
8/26/2011	131	NC ₂	192
9/22/2011	112	NC ₂	136
10/27/2011	199	NC ₂	196
11/22/2011	150	NC ₂	230
12/16/2011	85	NC ₂	94
1/20/2012	101	NC ₂	36
2/23/2012	271	NC ₂	130
3/13/2012	117	NC ₂	86
4/16/2012	832	NC ₂	398
5/15/2012	142	NC ₂	153
6/19/2012	561	NC ₂	570
7/10/2012	361	NC ₂	454
8/14/2012	303	NC ₂	59
10/24/2012	145	69	146
11/26/2012	15	19	12
12/18/2012	10	7	9
1/31/2013	4	2	2
2/28/2013	38	NC ₂	85
3/28/2013	11	NC ₂	13
4/25/2013	18	NC ₂	25
5/30/2013	NC ₁	NC ₁	NC ₁
6/27/2013	59	NC ₂	24
7/25/2013	68	NC ₂	90
8/29/2013	266	573	710
9/26/2013	14	NC ₂	7
10/24/2013	181	NC ₂	170
11/21/2013	46	NC ₂	43
12/23/2013	18	NC ₂	13
1/30/2014	376	NC ₂	1025
2/24/2014	32	NC ₂	65

ppbv: parts per billion by volume
NC₁: Not collected due to maintenance work
NC₂: Not collected due to an obstruction in the vapor line

Figure 14
Soil Vapor Measurements
SV15

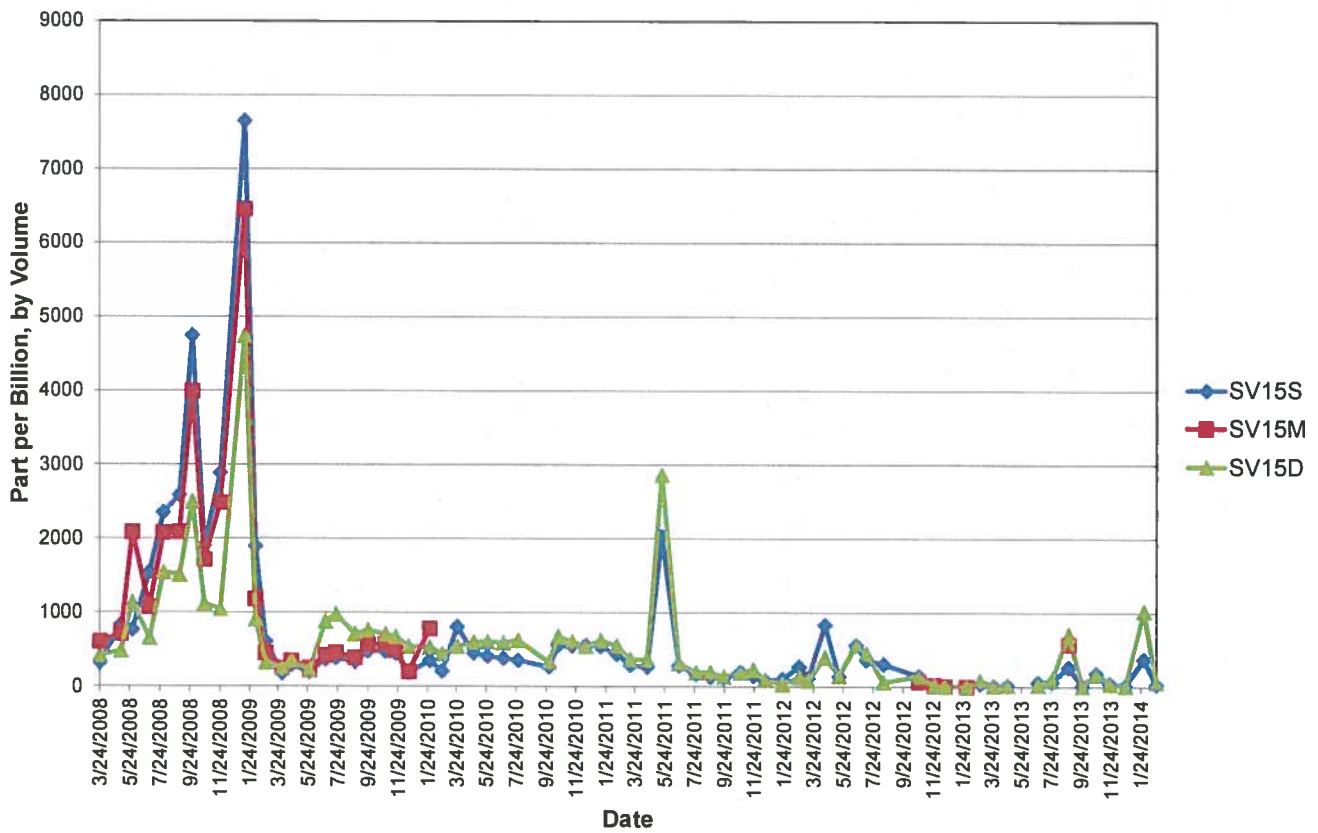


Table 15
Soil Vapor Results for SV16
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV16S	SV16M	SV16D
3/24/2008	73	81	195
5/6/2008	1521	561	445
5/29/2008	1576	636	359
7/3/2008	2395	1108	1022
7/31/2008	936	528	448
9/2/2008	1300	347	383
9/29/2008	1461	580	808
10/23/2008	788	143	356
11/25/2008	2594	106	293
1/14/2009	0	91	361
2/5/2009	1738	655	294
2/26/2009	70	39	176
4/1/2009	24	32	87
4/20/2009	198	182	238
5/27/2009	25	0	86
6/29/2009	181	154	256
7/20/2009	238	140	245
8/28/2009	178	157	269
9/24/2009	346	284	356
10/29/2009	248	215	326
11/19/2009	216	192	327
12/16/2009	238	116	301
1/28/2010	175	167	288
2/22/2010	106	80	209
3/25/2010	581	214	707
4/28/2010	217	184	447
5/26/2010	1633	211	489
6/28/2010	1144	210	307
7/28/2010	1112	199	300
9/29/2010	302	359	297
10/18/2010	576	562	535
11/16/2010	461	435	467
12/14/2010	198	225	327
1/13/2011	923	492	256
2/15/2011	1348	386	470
3/15/2011	331	235	240

Date	SV16S	SV16M	SV16D
4/18/2011	230	106	190
5/18/2011	2334	2654	2985
6/22/2011	305	330	227
7/27/2011	113	470	98
8/26/2011	765	257	157
9/22/2011	151	219	121
10/27/2011	214	180	155
11/22/2011	183	239	245
12/16/2011	93	121	77
1/20/2012	198	134	95
2/23/2012	195	66	111
3/13/2012	172	154	282
4/16/2012	1280	226	780
5/15/2012	247	159	116
6/19/2012	89	67	570
7/10/2012	199	152	340
8/14/2012	155	131	344
10/24/2012	166	91	81
11/26/2012	92	79	11
12/18/2012	4	28	3
1/31/2013	13	5	4
2/28/2013	77	12	51
3/28/2013	21	7	10
4/25/2013	27	28	36
5/30/2013	56	27	28
6/27/2013	51	28	24
7/25/2013	76	62	63
8/29/2013	0	0	0
9/26/2013	2	18	20
10/24/2013	173	145	172
11/21/2013	74	163	67
12/23/2013	5	2	6
1/30/2014	139	102	95
2/24/2014	44	24	65

ppbv: parts per billion by volume

Figure 15
Soil Vapor Measurements
SV16

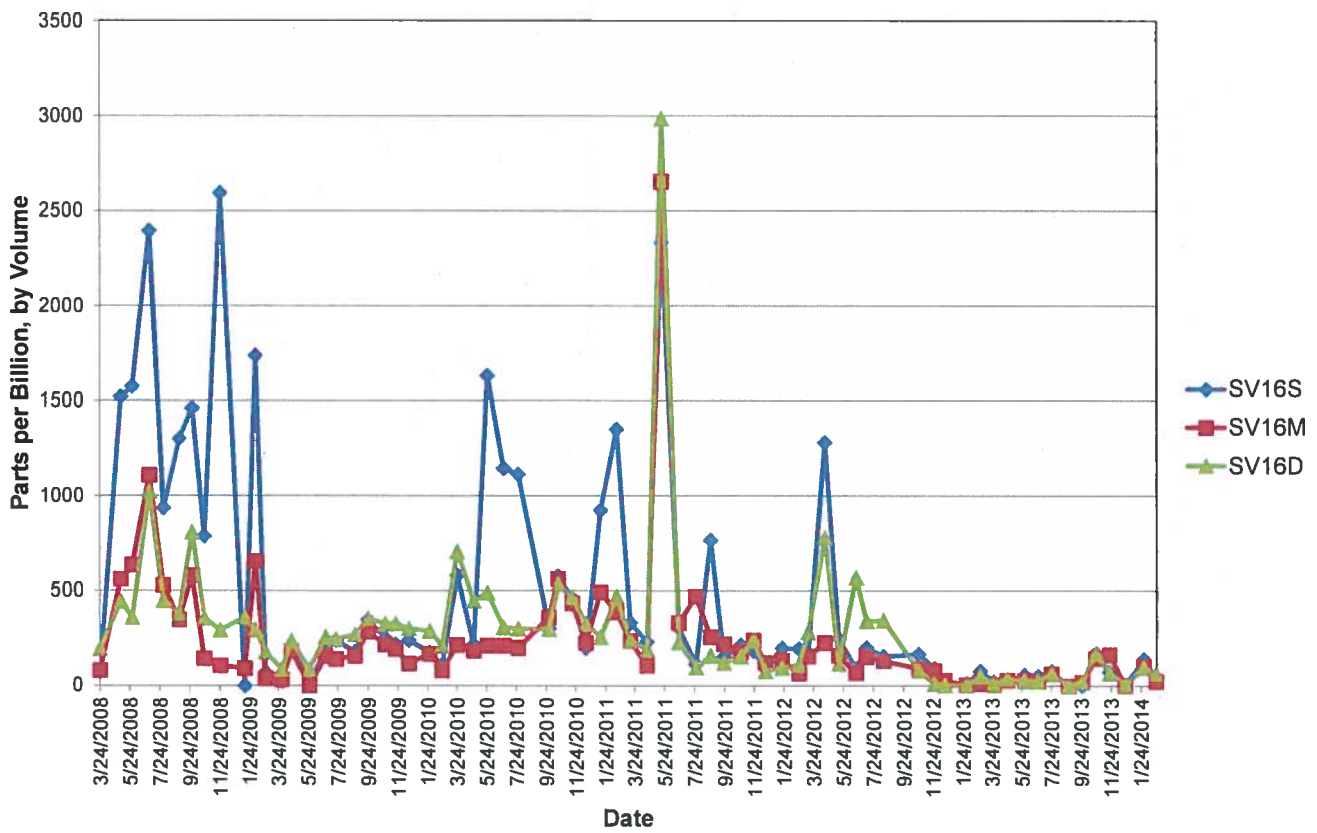


Table 16
Soil Vapor Results for SV17
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV17S	SV17M	SV17D
3/24/2008	NC	NC	NC
5/6/2008	NC	NC	NC
5/29/2008	NC	NC	NC
7/3/2008	NC	NC	NC
7/31/2008	NC	NC	NC
9/2/2008	NC	NC	NC
9/29/2008	NC	NC	NC
10/23/2008	NC	NC	NC
11/25/2008	967	980	896
1/14/2009	9419	11433	13567
2/5/2009	10594	12100	12933
2/26/2009	8678	11367	15567
4/1/2009	8397	11867	15633
4/20/2009	9344	10967	11000
5/27/2009	7656	9032	10567
6/29/2009	6046	7697	8982
7/20/2009	6489	7536	9093
8/28/2009	5075	5971	6506
9/24/2009	4882	5345	5290
10/29/2009	5158	5709	8051
11/19/2009	4031	4441	5115
12/16/2009	2550	2564	2840
1/28/2010	1866	2367	2497
2/22/2010	2304	2793	2846
3/25/2010	1488	1853	1865
4/28/2010	1442	1797	2072
5/26/2010	1240	1445	1637
6/28/2010	1405	1483	1773
7/28/2010	2035	2238	3745
9/29/2010	NC ₁	NC ₁	NC ₁
10/18/2010	NC ₁	NC ₁	NC ₁
11/16/2010	NC ₁	NC ₁	NC ₁
12/14/2010	NC ₁	NC ₁	NC ₁
1/13/2011	NC ₁	NC ₁	NC ₁
2/15/2011	NC ₁	NC ₁	NC ₁
3/15/2011	NC ₁	NC ₁	NC ₁
4/18/2011	NC ₁	NC ₁	NC ₁
5/18/2011	NC ₁	NC ₁	NC ₁

Date	SV17S	SV17M	SV17D
6/22/2011	NC ₁	NC ₁	NC ₁
7/27/2011	NC ₁	NC ₁	NC ₁
8/26/2011	NC ₁	NC ₁	NC ₁
9/22/2011	NC ₁	NC ₁	NC ₁
10/27/2011	NC ₁	NC ₁	NC ₁
11/22/2011	NC ₁	NC ₁	NC ₁
12/16/2011	NC ₁	NC ₁	NC ₁
1/20/2012	NC ₁	NC ₁	NC ₁
2/23/2012	NC ₁	NC ₁	NC ₁
3/13/2012	NC ₁	NC ₁	NC ₁
4/16/2012	NC ₁	NC ₁	NC ₁
5/15/2012	NC ₁	NC ₁	NC ₁
6/19/2012	NC ₁	NC ₁	NC ₁
7/10/2012	NC ₁	NC ₁	NC ₁
8/14/2012	NC ₁	NC ₁	NC ₁
10/24/2012	NC ₁	NC ₁	NC ₁
11/26/2012	NC ₁	NC ₁	NC ₁
12/18/2012	NC ₁	NC ₁	NC ₁
1/31/2013	NC ₁	NC ₁	NC ₁
2/28/2013	NC ₁	NC ₁	NC ₁
3/28/2013	NC ₁	NC ₁	NC ₁
4/25/2013	NC ₁	NC ₁	NC ₁
5/30/2013	NC ₁	NC ₁	NC ₁
6/27/2013	274	NC ₃	NC ₃
7/25/2013	672	837	876
8/29/2013	2162	2884	3069
9/26/2013	1716	945	1209
10/24/2013	601	638	648
11/21/2013	3065	3349	3218
12/23/2013	1243	2496	3023
1/30/2014	1598	2378	2980
2/24/2014	4069	3944	3884

ppbv: parts per billion by volume
NC : Not collected
NC₁ : Not collected due to maintenance work
NC₃ : Not collected due to insufficient tedlar bags

Figure 16
Soil Vapor Measurements
SV17

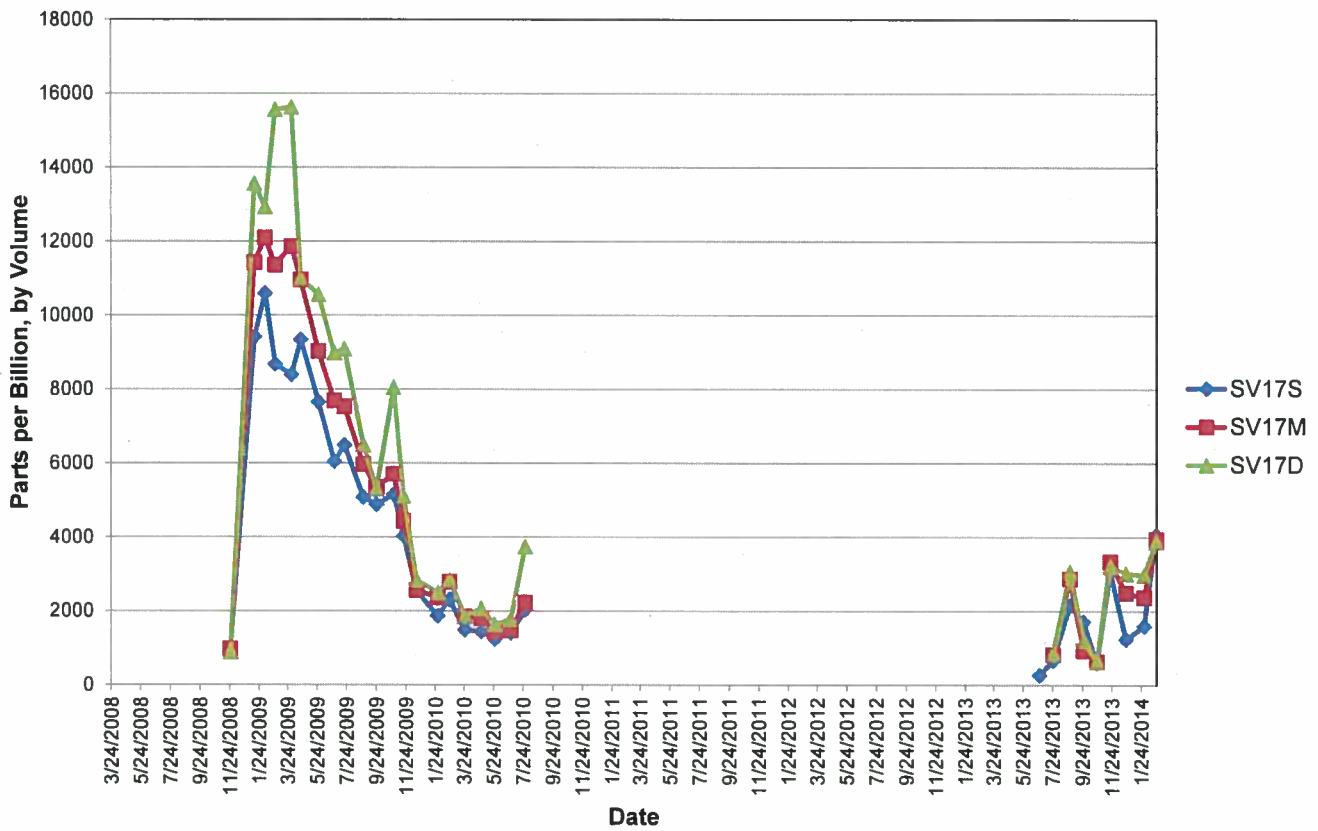


Table 17
Soil Vapor Results for SV18
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV18S	SV18D
3/24/2008	385	662
5/6/2008	1162	1033
5/29/2008	1127	1224
7/3/2008	1844	1287
7/31/2008	1679	1380
9/2/2008	1724	1792
9/29/2008	2515	2509
10/23/2008	1377	1481
11/25/2008	1130	1262
1/14/2009	364	996
2/5/2009	2099	1861
2/26/2009	454	915
4/1/2009	681	820
4/20/2009	772	963
5/27/2009	931	1146
6/29/2009	900	1122
7/20/2009	1180	1597
8/28/2009	1447	2156
9/24/2009	1362	1549
10/29/2009	1341	1888
11/19/2009	1817	2209
12/16/2009	534	776
1/28/2010	693	888
2/22/2010	1327	1631
3/25/2010	1072	1222
4/28/2010	991	1575
5/26/2010	845	1190
6/28/2010	939	1299
7/28/2010	1131	1485
9/29/2010	422	580
10/18/2010	595	839
11/16/2010	577	778
12/14/2010	212	725
1/13/2011	390	512
2/15/2011	400	662
3/15/2011	450	515

Date	SV18S	SV18D
4/18/2011	449	518
5/18/2011	460	742
6/22/2011	405	551
7/27/2011	250	380
8/26/2011	216	382
9/22/2011	241	367
10/27/2011	269	358
11/22/2011	286	403
12/16/2011	237	327
1/20/2012	107	233
2/23/2012	283	326
3/13/2012	190	373
4/16/2012	248	402
5/15/2012	399	594
6/19/2012	684	875
7/10/2012	1425	992
8/14/2012	824	853
10/24/2012	752	584
11/26/2012	215	185
12/18/2012	171	142
1/31/2013	1423	1275
2/28/2013	913	654
3/28/2013	460	572
4/25/2013	266	293
5/30/2013	307	239
6/27/2013	244	264
7/25/2013	1037	1197
8/29/2013	5225	5326
9/26/2013	3190	3132
10/24/2013	2333	2309
11/21/2013	5227	3157
12/23/2013	8679	8606
1/30/2014	1949	2116
2/24/2014	2674	3241

ppbv: parts per billion by volume

Figure 17
Soil Vapor Measurements
SV18

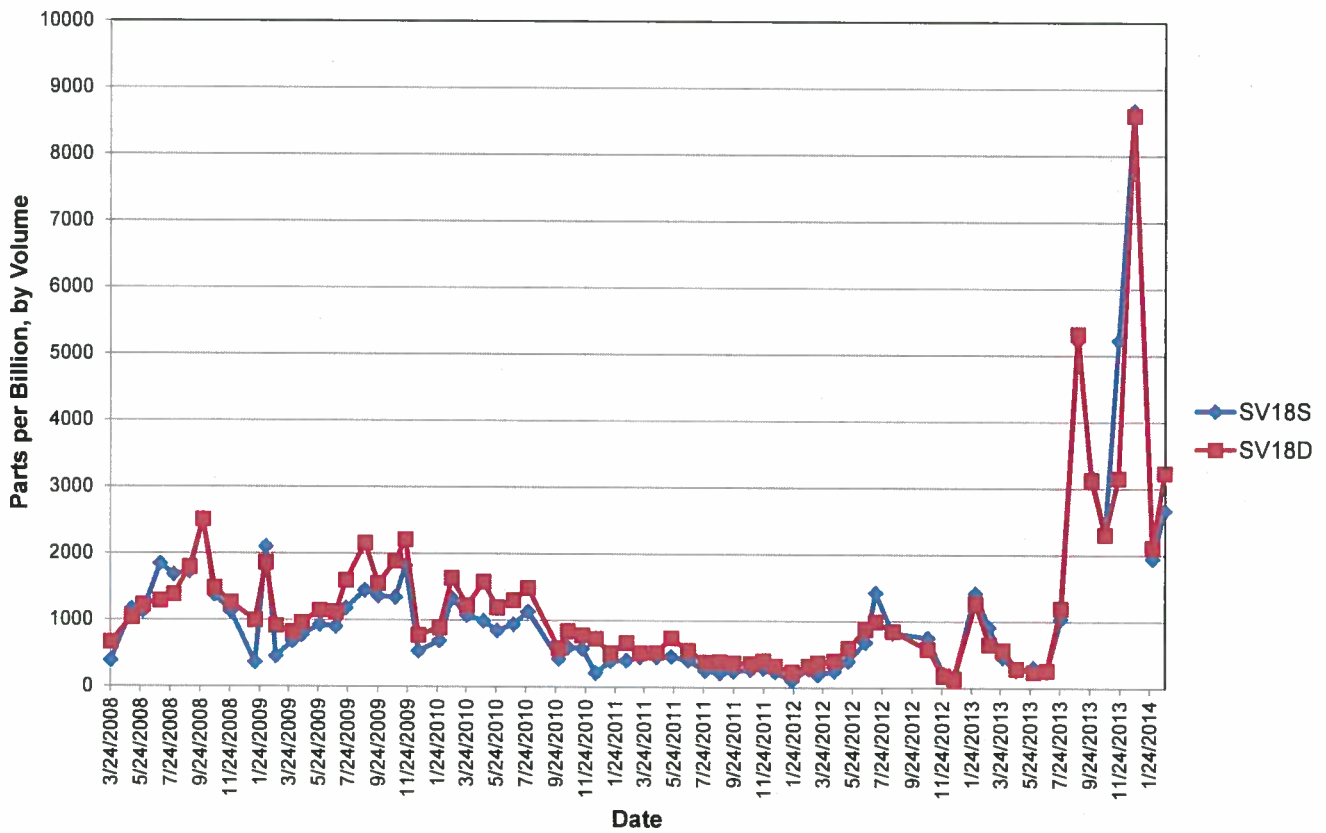


Table 18
Soil Vapor Results for SV20
Soil Vapor Monitoring Letter Report
Red Hill Bulk Fuel Storage Facility

Date	SV20S	SV20M	SV20D
3/24/2008	963	507	1133
5/6/2008	2045	1700	1390
5/29/2008	11633	14833	22667
7/3/2008	4892	3425	6976
7/31/2008	2963	2758	4201
9/2/2008	2709	1954	2556
9/29/2008	2796	1996	1874
10/23/2008	1399	1401	1609
11/25/2008	1091	1005	1208
1/14/2009	570	672	714
2/5/2009	2553	1920	1170
2/26/2009	515	622	674
4/1/2009	604	645	595
4/20/2009	798	604	600
5/27/2009	594	627	574
6/29/2009	651	663	631
7/20/2009	691	680	729
8/28/2009	403	431	473
9/24/2009	732	762	662
10/29/2009	1280	2259	788
11/19/2009	2013	2070	2789
12/16/2009	2112	2863	3545
1/28/2010	451	485	666
2/22/2010	1648	1825	2599
3/25/2010	1019	1004	1625
4/28/2010	815	1183	1597
5/26/2010	668	693	746
6/28/2010	726	866	898
7/28/2010	689	922	1191
9/29/2010	220	255	284
10/18/2010	567	593	602
11/16/2010	365	322	293
12/14/2010	398	484	390
1/13/2011	113	271	306
2/15/2011	239	361	302
3/15/2011	283	368	352

Date	SV20S	SV20M	SV20D
4/18/2011	540	378	396
5/18/2011	549	722	752
6/22/2011	282	347	339
7/27/2011	256	305	248
8/26/2011	252	220	251
9/22/2011	147	240	164
10/27/2011	223	263	245
11/22/2011	212	334	316
12/16/2011	119	149	361
1/20/2012	59	88	57
2/23/2012	254	393	312
3/13/2012	162	236	203
4/16/2012	424	201	135
5/15/2012	155	160	176
6/19/2012	383	350	354
7/10/2012	509	514	563
8/14/2012	494	443	384
10/24/2012	131	150	264
11/26/2012	95	80	106
12/18/2012	39	22	32
1/31/2013	223	204	159
2/28/2013	274	296	286
3/28/2013	209	263	246
4/25/2013	150	182	163
5/30/2013	80	95	80
6/27/2013	137	65	66
7/25/2013	250	282	332
8/29/2013	581	459	360
9/26/2013	214	64	323
10/24/2013	454	405	311
11/21/2013	350	317	215
12/23/2013	787	704	777
1/30/2014	560	584	697
2/24/2014	571	505	293

ppbv: parts per billion by volume

Figure 18
Soil Vapor Measurements
SV20

