Soil Vapor Collection Log Sheet

Site Name WDEQ/CASPER PCE ORPHAN PLUME SITE **Site Location** NORTH + DOWNTOWN CASPER, WY **Date** 11/18/09

Start Time/Weather 11:30 / partly cloudy, ~50-55°F, ~10 mph winds **Finish Time/Weather** 16:30 / Clear, ~55°F, 10-20 mph winds.

	Sample ID	Purge Depth (feet)	Tubing Length (feet)	Purge Vol (ml)	Start Pressure/Time	Finish Pressure/Time	% Tracer in Shroud	Tracer in Tedlar Bag (ppm)	OK	Can #	Flow Controller #	Comments (Moisture, Volume Collected)
1	ESV-33	5	6.5	124	1204 - mobile lab	—	19.9	0	✓	—	—	15 cc
2	ESV-34	5	6.5	124	1246 - mobile lab	—	31.5	0	✓	—	—	15cc
3	ESV-34 DUP	5	6.5	124	27.5" / 1237	4" / 1247	31.5	0	✓	410	—	1 L canister
4	ESV-35	5	6.5	124	1304 - mobile lab	—	35.7	0	✓	—	—	16 cc
5	ESV-37	5	6.5	124	1350 - mobile lab	—	22.7	0	✓	—	—	16 cc
6	ESV-37 DUP	5	6.5	124	27" / 1344	5" / 1351	22.7	0	✓	188	—	1 L canister
7	EAA-01	—	—	—	1358 - mobile lab	—	—	—	—	—	—	15 cc (Ambient Air)
8	ESV-36	5	6.5	124	1405 - mobile lab	—	31.7	0	✓	—	—	15 cc
9	ESV-38	5	6.5	124	1419 - mobile lab	—	22.8	75 ppm	✓	—	—	16 cc
10	ESV-28	5	6.5	124	1446 - mobile lab	—	23.6	0	✓	—	—	16 cc
11	ESV-31	5	6.5	124	1456 - mobile lab	—	28.8	25 ppm	✓	—	—	16 cc
12	ESV-32	5	6.5	124	1507 - mobile lab	—	36.3	0	✓	—	—	16 cc
13	ESV-29	5	6.5	124	1518 - mobile lab	—	42.1	125 ppm	✓	—	—	16 cc
14	ESV-30	5	6.5	124	1530 - mobile lab	—	29.1	0	✓	—	—	16 cc
15	ESV-27	5	6.5	124	1541 - mobile lab	—	31.8	0	✓	—	—	16 cc
16	ESV-26	5	6.5	124	1605 - mobile lab	—	33.6	0	✓	—	—	16 cc
17	ESV-26 DUP	5	6.5	124	27" / 1558	2" / 1606	33.6	0	✓	419	—	1 L canister
18	ESV-29	5	6.5	124	1620 - mobile lab	—	—	—	—	—	—	16 cc, mobile lab duplicate
19	~~Mobile~~											
20												

NOTES:

Work completed by: M. Litzsi + A. Kozakowski

Soil Vapor Collection Log Sheet

Site Name WDEQ/CASPER PCE ORPHAN PLUME SITE **Site Location** NORTH + DOWNTOWN CASPER, WY **Date** 11/12/09

Start Time/Weather 08:30 / pHly cloudy, ~50-55°F, 10-20 mph wind **Finish Time/Weather** 16:00 / pHly cloudy to cloudy, ~40°F, 20-25 mph winds, cold!

	Sample ID	Purge Depth (feet)	Tubing Length (feet)	Purge Vol (ml)	Start Pressure/Time	Finish Pressure/Time	% Tracer in Shroud	Tracer in Tedlar Bag (ppm)	OK	Can #	Flow Controller #	Comments (Moisture, Volume Collected)
1	ESV-25	5	6.5	124	0842 - mobile lab	—	30.8	0	✓	—	—	16 cc
2	ESV-23	5	6.5	124	0852 - mobile lab	—	30.7	0	✓	—	—	16 cc
3	ESV-20	5	6.5	124	0902 - mobile lab	—	44.7	25 ppm	✓	—	—	16 cc
4	ESV-22	5	6.5	124	0938 - mobile lab	—	28.7	0	✓	—	—	16 cc
5	ESV-22 DUP	5	6.5	124	26" / 0932	1" / 0939	28.7	0	✓	564	—	1 L canister
6	ESV-24	5	6.5	124	0952 - mobile lab	—	30.5	50 ppm	✓	—	—	16 cc, Painting Home nearby
7	ESV-19	5	6.5	124	1005 - mobile lab	—	22.9	0	✓	—	—	16 cc
8	EAA-02	—	—	—	1008 - mobile lab	—	—	—	-	—	—	15 cc (Ambient Air)
9	ESV-21	5	6.5	124	1020 - mobile lab	—	29.8	25 ppm	✓	—	—	16 cc
10	ESV-18	5	6.5	124	1031 - mobile lab	—	39.4	0	✓	—	—	16 cc
11	ESV-39	5	6.5	124	1102 - mobile lab	—	24.2	25 ppm	✓	—	—	16 cc
12	ESV-39 DUP	5	6.5	124	27" / 1056	7" / 1103	24.2	25 ppm	✓	93	—	1 L canister
13	ESV-08	5	6.5	124	1136 - mobile lab	—	51.2	75 ppm	✓	—	—	16 cc
14	ESV-12	5	6.5	124	1149 - mobile lab	—	49.1	0	✓	—	—	16 cc
15	ESV-15	5	6.5	124	1213 - mobile lab	—	42.8	50 ppm	✓	—	—	16 cc
16	ESV-09	5	6.5	124	1225 - mobile lab	—	54.2	0	✓	—	—	16 cc
17	ESV-11	5	6.5	124	1244 - mobile lab	—	43.5	150 ppm	✓	—	—	16 cc
18	ESV-14	5	6.5	124	1400 - mobile lab	—	N/A	N/A	-	—	—	16 cc * Helium meter stopped working - pump out.
19	ESV-14 DUP	5	6.5	124	27" / 1354	2" / 1401	N/A	N/A	-	365	—	1 L canister
20	ESV-10	5	6.5	124	1418 - mobile lab	—	N/A	N/A	-	—	—	16 cc

NOTES: Helium meter pump stopped working after ESV-11, called prior to trouble shoot. Helium should not used on ESV-14 @14:00 until the end of the day.

Work completed by: M. Litasi + A. Kozakowski

Soil Vapor Collection Log Sheet

Site Name WDEQ/ CASPER PCE ORPHAN PLUME SITE **Site Location** NORTH + DOWNTOWN CASPER, WY **Date** 11/12/09

Start Time/Weather 0830 / pt ly cloudy, ~50-55°F, 10-20 mph winds **Finish Time/Weather** 16:00 / pt ly cloudy to cloudy, ~40°F, 20-25 mph winds, cold!

	Sample ID	Purge Depth (feet)	Tubing Length (feet)	Purge Vol (ml)	Start Pressure/Time	Finish Pressure/Time	% Tracer in Shroud	Tracer in Tedlar Bag (ppm)	OK	Can #	Flow Controller #	Comments (Moisture, Volume Collected)
1	ESV-10 DUP	5	6.5	124	27" / 1412	6.5" / 1419	N/A	N/A	N/A	207	—	1 L canister * Helium meter stopped working - pump out.
2	ESV-16	4.7	6.5	124	1432 - mobile lab	—				—	—	16 cc
3	ESV-13	5	6.5	124	1439 - mobile lab	—				—	—	16 cc
4	ESV-17	5	6.5	124	1447 - mobile lab	—				—	—	16 cc
5	ESV-07	5	6.5	124	1458 - mobile lab	—				—	—	16 cc
6	ESV-06	5	6.5	124	1503 - mobile lab	—				—	—	16 cc
7	ESV-05	5	6.5	124	1517 - mobile lab	—				—	—	16 cc
8	ESV-40	5	6.5	124	1518 - mobile lab	—				—	—	16 cc
9	ESV-40 DUP	5	6.5	124	27" / 1512	7" / 1519				159	—	1 L canister
10	ESV-02	5	6.5	124	1530 - mobile lab	—				—	—	16 cc
11	AA-03	—	—	—	1534 - mobile lab	—	—	—	—	—	—	15 cc (Ambient Air)
12	ESV-03	5	6.5	124	1539 - mobile lab	—	N/A	N/A	N/A	—	—	16 cc
13	ESV-04	5	6.5	124	1545 - mobile lab	—				—	—	16 cc
14	ESV-01	4.8	6.5	124	1552 - mobile lab	—				—	—	16 cc
15												
16												
17												
18												
19												
20												

NOTES: Helium meter pump stopped working after ESV-11. No shrouding / Helium meter was used on these samples.

Work completed by: M. Litasi + A. Kozakowski

Soil Vapor Collection Log Sheet

Site Name CASPER PCE ORPHAN PLUMES **Site Location** CASPER, WY **Date** 7/27/10

Start Time/Weather cloudy ~70°F **Finish Time/Weather** sunny to ptly cloudy ~85°F, breezy

	Sample ID	Purge Depth (feet)	Tubing Length (feet)	Purge* Vol (ml)	Start Pressure/Time	Finish Pressure/Time	% Tracer in Shroud	Tracer in Tedlar Bag (ppm)	OK	Can #	Flow Controller #	Comments (Moisture, Volume Collected)
1	ESV-42	5'	6.5'	125mL	0808	mobile lab	35.4%	0 ppm	✓	—	—	17cc
2	ESV-41	5'	6.5'	125mL	0817		20.4%	0 ppm	✓	—	—	17cc
3	ESV-45	5'	6.5'	125mL	0829		25.8%	0 ppm	✓	—	—	17cc
4	EAA-01	—	—	—	0835		—	—	—	—	—	17cc.
5	ESV-44	5'	6.5'	125mL	0848		24.6%	0 ppm	✓	—	—	17cc
6	ESV-43	5'	6.5'	125mL	0930/0937		24.2%	0 ppm	✓	—	—	17cc
7	ESV-43 DUP	5'	6.5'	125mL	0928/24.5"	0937/2"	24.2%	0 ppm	✓	274	44	1L summa can.
8	ESV-07	5'	6.5'	125mL	1015	mobile lab	21.6%	0 ppm	✓	—	—	Re-test from 1st samp. event close to 810 mg/m³ = 17cc.
9	ESV-46	5'	6.5'	317mL	1043		24.7%	0 ppm	✓	—	—	17cc
10	ESV-47	5'	6.5'	317mL	1105		27.6%	0 ppm	✓	—	—	17cc
11	ESV-48	5'	6.5'	317mL	1125		25.7%	0 ppm	✓	—	—	17cc
12	ESV-49	5'	6.5'	317mL	1140		26.5%	0 ppm	✓	—	—	16cc
13	ESV-50	5'	6.5'	317mL	1157		34.9%	0 ppm	✓	—	—	16cc
14	ESV-51	5'	6.5'	317mL	1320		24.6%	0 ppm	✓	—	—	17cc
15	EAA-02	—	—	—	1245		—	—	—	—	—	15cc
16	ESV-52	5'	6.5'	317mL	1346		28.7%	0 ppm	✓	—	—	17cc
17	ESV-52 DUP	5'	6.5'	317mL	24.5"/1337	3"/1346	26.1%	0 ppm	✓	131	404	1L summa can.
18	ESV-49 DUP	5'	6.5'	—	1357	mobile lab	—	—	✓	—	—	mobile lab dup 20cc.
19	ESV-53	5'	6.5'	317mL	1438		22.9%	0 ppm	✓	—	—	17cc
20	ESV-54	5'	6.5'	317mL	1515		24.8%	0 ppm	✓	—	—	16cc

NOTES: * overpurged sandpack on #9 → #20

Work completed by: M. Citasi

Soil Vapor Collection Log Sheet

Site Name CASPER PCE PLUMES (ORPHAN SITE) **Site Location** Casper, Wy **Date** 12/8/10

Start Time/Weather 0930 pltly Cloudy, cold + windy ~20-40°F **Finish Time/Weather** 1800 - DARK, cold + windy ~20°F

	Sample ID	Purge Depth (feet)	Tubing Length (feet)	Purge Vol (ml)	Start Pressure/Time	Finish Pressure/Time	% Tracer in Shroud	Tracer in Tedlar Bag (ppm)	OK	Can #	Flow Controller #	Comments (Moisture, Volume Collected)
1	ESV-66	5	6.5	~~124 cc~~	0950	— mobile lab	16.8%	0	✓	—	—	100 cc
2	ESV-65	5	6.5	124	1003	— mobile lab	17.1%	0	✓	—	—	100 cc
3	ESV-74	5	6.5	124	1012	— mobile lab	13.5%	0	✓	—	—	100 cc
4	ESV-73	5	6.5	124	1048	— mobile lab	14.6%	0	✓	—	—	100 cc
5	ESV-72	5	6.5	124	1057	— mobile lab	12.5%	0	✓	—	—	100 cc
6	ESV-70	5	6.5	124	1120	— mobile lab	13.6%	0	✓	—	—	100 cc
7	~~ESV-70 DUP~~	~~5~~	~~6.5~~	"	~~-25"/~~	/	"	"	"	2119	00453	" Mike no sample collected 12/8/10 Bad canister.
8	ESV-71	5	6.5	124	1133	— mobile lab	12.1%	0	✓	—	—	100 cc
9	ESV-64	5	6.5	124	1240	— mobile lab	13.6%	0	✓	—	—	100 cc
10	ESV-64 DUP	5'	6.5'	"	-25"Hg/ 1229	-3"Hg/ 1239	"	"	✓	33707	00424	1L Summa
11	ESV-63	5'	6.5	124	1251	— mobile lab	14.8%	0	✓	—	—	100 cc
12	ESV-62	5	6.5	124	1321	— mobile lab	16.1%	0	✓	—	—	100 cc
13	ESV-62 DUP	5	6.5	"	-24.5"Hg/ 1304	-5"Hg/ 1320	"	"	✓	11433	00357	1L Summa
14	ESV-61	5	6.5	124	1331	— mobile lab	12.8%	0	✓	—	—	100 cc
15	ESV-60	5	6.5	124	1340	— mobile lab	15.6%	0	✓	—	—	100 cc
16	ESV-69	5	6.5	124	1415	— mobile lab	13.7%	0	✓	—	—	100 cc
17	ESV-68	5	6.5	124	1425	— mobile lab	12.4%	0	✓	—	—	100 cc
18	ESV-58	5	6.5	124	1440	— mobile lab.	18.6%	25 ppm	✓	—	—	100 cc
19	ESV-58 DUP	5	6.5	"	-25"Hg/ 1442	-3"Hg/ 1454	"	"	✓	31763	00640	1L summa
20	ESV-59	4.8	6.5	124	1504	— mobile lab	12.1%	0	✓	—	—	100 cc

NOTES: All samples collected in tedlar bag for mobile lab.

Work completed by: M. Citasi

Soil Vapor Collection Log Sheet

Site Name CASPER PCE PLUMES (ORTHAN SITE) **Site Location** Casper, Wy **Date** 12/8/10

Start Time/Weather 0930 ptly cloudy, cold, windy ~20-40°F **Finish Time/Weather** 1800 - DARK, cold + windy ~20°

	Sample ID	Purge Depth (feet)	Tubing Length (feet)	Purge Vol (ml)	Start Pressure/Time	Finish Pressure/Time	% Tracer in Shroud	Tracer in Tedlar Bag (ppm)	OK	Can #	Flow Controller #	Comments (Moisture, Volume Collected)
1	ESV-67	5	6.5	124	1516	- mobile lab	16.5%	0	✓	—	—	100cc
2	ESV-56	5	6.5	124	1530	- mobile lab	12.1%	0	✓	—	—	100cc
3	ESV-57	4.8	6.5	124	1545	- mobile lab	16.8%	50 ppm	✓	—	—	100cc
4	ESV-57 DUP	4.8	6.5	"	-26" Hg / 1549	-3" Hg / 1603	"	"	✓	36422	00669	1 L summa
5	ESV-75	5	6.5	124	1612	- mobile lab	15.6	0	✓	—	—	100cc
6	ESV-75 FD	5	6.5	"	1612	- mobile lab	"	"	✓	—	—	100cc
7	ESV-55	5	6.5	124	1619	- mobile lab	14.8%	0	✓	—	—	100cc
8	~~ESV-13~~	~~5~~	~~6.5~~	~~124~~	~~1628~~	~~- mobile lab~~	~~12.1%~~	~~0~~	~~✓~~	~~—~~	MM 12/9/10	~~100cc~~ (resample from last event to confirm) Bag rogued overpurged/installed today
9	ESV-76	4.8	6.5	320	1637	- mobile lab	13.5%	0	✓	—	—	100 cc
10	AA-01	—	—	—	1639	- mobile lab	—	—	—	—	—	100cc Ambient Air
11	ESV-77	5	6.5	320	1651	- mobile lab	12.8%	25 ppm	✓	—	—	100cc overpurged/installed today
12	ESV-78	5	6.5	320	1659	- mobile lab	13.6%	0 ppm	✓	—	—	100cc overpurged/installed today
13	ESV-78 DUP	5	6.5	"	-25" Hg / 1704	-4" Hg / 1716	"	"	✓	12381	00421	1 L summa " "
14	~~ESV-13 (resample)~~	5	6.5	N/A	1748	- mobile lab.	—	—	—	—	—	resample 100cc - bad bag 1st time. MM 12/9/10
15												Bad bag - 2 times
16												
17												
18												
19												
20												

NOTES: All samples collected in tedlar bags for mobile lab

* Attempted to sample ESV-13 twice - 1st time bag was empty when arriving at mobile lab. Went a second time to re-sample + bag was empty upon arrival the second time as well. Bad valve on tedlar bag. Too dark + cold to resample a third time. **Work completed by:** MKC