

APPENDIX U

Laboratory Reports – Soil/Waste – Pilot Study No. 3

Table U. Index for Soil, Waste, and Flux Samples and Analytical Reports (Chemical)
Pilot Study No. 3
Ascon Landfill Site

Phase	Borehole/ Trench	Date Sampled	Composite Soil & Waste Samples (composited depths) ^{1,2}	Discrete Soil & Waste Samples ^{2,3}	Flux Type ⁴	Flux Vapor Samples ^{5,6} (TO-3, TO-15)	Flux Sulfur Compounds Samples (ASTM D 5504-01)	Flux Odor Samples (ASTM E 679-91, ASTM E 544-99)	Soil/Waste Report Identifier ⁷	Flux Report Identifier ^{7,8}	Odor Report Identifier ^{7,9}	Comments
			Del Mar Analytical	Del Mar Analytical		Columbia Analytical Services	Columbia Analytical Services	Odor Science & Engineering, Inc.				
I	PNL-1	5/3/2004	PNL-1 (3, 7, 10, 13, 15, 18, and 21)	PNL-1-16.5-EC PNL-1-18.5-EC PNL-1-21.5-EC	DHF	PNL-1-15DHF	--	PNL-1-15DHF	INE0031	0974	1413 "Final"	
I	PNL-2	3/15/2004	PNL-02 (3.5, 6.5, 9.5, 12.5, 13.0, 15.5, and 16.0)	--	DHF	PNL-02-15DHF	--	PNL-02-15DHF	INC0993	0531	1413 "Final"	
I	PNL-3	3/16/2004	PNL-3 (16, 18.5, 22, and 24.5)	PNL-3-19-EC PNL-3-21.5-EC	DHF	PNL-3-21DHF	--	PNL-3-21DHF	INC1049	0531	1413 "Final"	
I	PNL-4/4A	5/4/2004	PNL-4 (22, 24, and 27)	PNL-4-21.5-EC PNL-4-24.5-EC	DHF	--	--	--	INE0119	--	--	PNL-04 had water. PNL-4A drilled nearby.
I	PNL-5/5A	3/16/2004	PNL-5 (9.5, 13, and 15 from PNL-5; 18.5, 22, and 24.5 from PNL-5A)	PNL-5-10-EC PNL-5A-21.5-EC PNL-5A-25-EC	DHF	PNL-5A-11DHF	--	PNL-5A-11DHF	INC1049	0531	1413 "Final"	PNL-05 had water. PNL-5A drilled nearby.
I	PNL-6	5/5/2004	PNL-6 (9, 12, 15, 21, and 24)	PNL-6-9.5-EC PNL-6-15.5-EC PNL-6-21.5-EC	DHF	PNL-6-15DHF PNL-6-15RDHF	--	PNL-6-15DHF	INE0228	0974	1413 "Final"	
I	PNL-7	5/3/2004	PNL-7 (9.5, 12, 15, and 18)	PNL-7-12.5-EC	DHF	PNL-7-21DHF	--	PNL-7-21DHF PNL-7-21RDHF	INE0031	0974	1413 "Final"	
I	PNL-8	5/5/2004	PNL-8 (10, 12.5, 15, 18, 21, 24, and 27)	PNL-8-9.5-EC PNL-8-18.5-EC PNL-8-24.5-EC	DHF	PNL-8-6-DHF PNL-8-18-DHF	--	PNL-8-18-DHF	INE0228	0974	1413 "Final"	
I	PNL-9	5/5/2004	PNL-9 (16 and 18) PNL-9-Fill (6, 9.5, and 12.5)	PNL-9-10-EC PNL-9-15.5-EC PNL-9-18.5-EC	DHF	PNL-9-15DHF	--	PNL-9-15DHF PNL-9-15-RDHF	INE0228	0974	1413 "Final"	
I	PNL-10	5/4/2004	--	PNL-10-6-EC PNL-10-9.5-EC PNL-10-12-EC PNL-10-18-EC	--	--	--	--	INE0119	--	--	
I	PNL-10A	5/4/2004	--	--	DHF	PNL-10A-13DHF	--	PNL-10A-13DHF	--	0974	1413 "Final"	PNL-10 had no apparent waste impacts. PNL-10A drilled nearby.
I	PNL-11	5/4/2004	PNL-11 (9, 12, 15, and 21.5)	PNL-11-12.5-EC PNL-11-15.5-EC PNL-11-22-EC	DHF	PNL-11-12DHF	--	PNL-11-12DHF	INE0119	0974	1413 "Final"	
I	PNL-12	3/16/2004	PNL-12 (13, 15.5, and 18.5) PNL-12-Fill (2, 3.5, 6.5, and 9.5)	PNL-12-16-EC PNL-12-18-EC	DHF	PNL-12-15RDHF PNL-12-15DHF	--	PNL-12-21DHF	INC1049	0531	1413 "Final"	
I	PNL-13	3/15/2004	PNL-13 (6.5, 9.5, 10.0, 12.5, 13.0, 15.5, 16.0, 18.5, 19.0, 21.5, and 22.0) PNL-13-Fill (2.0, 2.5, and 3.5)	PNL-13-9.5-EC PNL-13-12.0-EC PNL-13-15.0-EC	DHF	PNL-13-12DHF	--	PNL-13-12DHF	INC0993	0531	1413 "Final"	
I	PNL-14	5/3/2004	PNL-14 (15, 18, and 21)	PNL-14-15-EC PNL-14-18.5-EC	DHF	PNL-14-21DHF	--	PNL-14-21DHF	INE0031	0974	1413 "Final"	
I	PNL-15	3/15/2004	--	--	DHF	PNL-15-12DHF	--	PNL-15-12DHF	--	0531	1413 "Final"	

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I	Blank Flux Samples	3/15/2004 3/16/2004 5/5/2004	--	--	DHF	PNL-9-21-BDHF PNL-12-100DHF PNL-15-100DHF	--	PNL-7BDHF PNL-12-100DHF PNL-15-100DHF	--	0531 0974	1413 "Final"	
II	PNL-BA01	5/10/2004	PNL-BA01-Stockpile	--	SF	PNLBA1-17-SFU PNLBA1-17-SFC1	--	PNLBA1-17-SFU PNLBA1-17-SFC1	INE0765	1046	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data. Odor sample PNL-BA1-17-SFU incorrectly reported as "SF4"
II	PNL-BA03	5/12/2004	PNL-BA03-Stockpile	--	SF	PNLBA3-X-SFU PNLBA3-X-SFU1 PNLBA3-X-SFC	--	PNLBA3-X-SFU PNLBA3-X-SFC	INE0764	1046	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
II	PNL-BA06	5/13/2004	PNL-BA06-Stockpile	--	SF	PNLBA06-X-SFU PNLBA06-X-SFC	--	PNLBA06-X-SFU PNLBA06-X-SFC	INE0892	1046	1413 "Final"	
II	PNL-BA07	5/11/2004	PNL-BA07-Stockpile	--	SF	PNLBA07-X-SFU PNLBA07-X-SFC	--	PNLBA07-X-SFU PNLBA07-X-SFC	INE0765	1046	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
II	PNL-BA08	5/11/2004	PNL-BA08-Stockpile	--	SF	PNLBA8-17-SFU PNLBA8-17-SFC1 PNLBA8-17-SFC2 PNLBA8-17-SFC3 PNLBA8-17-SFC4 PNLBA8-17-SFC5 PNLBA8-17-SFC6 PNLBA8-17-SFC7	--	PNLBA8-17-SFU PNLBA8-17-SFC1 PNLBA8-17-SFC2 PNLBA8-17-SFC3 PNLBA8-17-SFC4 PNLBA8-17-SFC5 PNLBA8-17-SFC6 PNLBA8-17-SFC7	INE0765	1046	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
II	PNL-BA11	5/12/2004	PNL-BA11-Stockpile	--	SF	PNLBA11-X-SFU PNLBA11-X-SFC	--	PNLBA11-X-SFU PNLBA11-X-SFC	INE0764	1046	1413 "Final"	
II	PNL-BA13	5/12/2004	PNL-BA13-Stockpile	--	SF	PNLBA13-X-SFU PNLBA13-X-SFC	--	PNLBA13-X-SFU PNLBA13-X-SFC	INE0764	1046	1413 "Final"	
II	Multiple	5/26/2004	PNL-BA-8/13 waste	--	--	--	--	--	INE1627	--	--	Results of waste characterization testing (TRPH, VOC, SVOC, and Metals) for disposal purposes due to SCAQMD Rule 1166 requirements
II	Blank Flux Samples	5/10- 12/2004	--	--	SF	PNL-100-100-SF	--	PNLBA3-100-SFC	--	1046	1413 "Final"	
III	PNL-TP01	5/17/2004 5/18/2004	PNL-TP01-Stockpile PNL-TP01-Waste	--	--	--	--	--	INE0965 INE1120	--	--	"waste" in sample ID indicates sample was characterized for disposal purposes due to SCAQMD Rule 1166 requirements
III	PNL-TP02	5/19/2004	PNL-TP02-Stockpile PNL-TP02-Waste	--	--	--	--	--	INE1148	--	--	"waste" in sample ID indicates sample was characterized for disposal purposes due to SCAQMD Rule 1166 requirements
III	PNL-TP03	5/20/2004	PNL-TP03-Stockpile PNL-TP03-Waste	--	--	--	--	--	INE1250	--	--	"waste" in sample ID indicates sample was characterized for disposal purposes due to SCAQMD Rule 1166 requirements

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III	PNL-TP04	5/19/2004	PNL-TP04-Stockpile PNL-TP04-Waste	--	--	--	--	--	INE1148	--	--	"waste" in sample ID indicates sample was characterized for disposal purposes due to SCAQMD Rule 1166 requirements
III	PNL-TP05	5/18/2004	PNL-TP05-Stockpile	--	--	--	--	--	INE1120	--	--	
III	PNL-TP06	5/18/2004	PNL-TP06-Stockpile	--	--	--	--	--	INE1120	--	--	
III	PNL-TP07	5/20/2004	PNL-TP07-Stockpile PNL-TP07-Waste	--	--	--	--	--	INE1250	--	--	"waste" in sample ID indicates sample was characterized for disposal purposes due to SCAQMD Rule 1166 requirements
III	Multiple	6/4/2004	PNL-TP01,02,03,04,07-WASTE	--	--	--	--	--	INF0242 INF0549	--	--	Results of waste characterization (STLC, TCLP, Fish Toxicity) for disposal purposes due to SCAQMD Rule 1166 requirements
IV	PNL-L1A	5/26/2004	PNL-L1A	--	SF	PNL-L1A-SFU PNL-L1A-SFC1 PNL-L1A-SFC2	PNL-L1A-SFUS PNL-L1A-SFC1S PNL-L1A-SFC2S	PNL-L1A-SFU PNL-L1A-SFC1 PNL-L1A-SFC2	INE1627	1135 1130(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
IV	PNL-L1B	5/26/2004	PNL-L1B	--	SF	PNL-L1B-SFU PNL-L1B-SFC1 PNL-L1B-SFC2 PNL-L1B-SFUR	PNL-L1B-SFUS PNL-L1B-SFC1S PNL-L1B-SFC2S	PNL-L1B-SFU PNL-L1B-SFC1 PNL-L1B-SFC2	INE1627	1135 1123(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
IV	PNL-L2A	5/26/2004	PNL-L2A	--	SF	PNL-L2A-SFU PNL-L2A-SFC1 PNL-L2A-SFC2	PNL-L2A-SFUS PNL-L2A-SFC1S PNL-L2A-SFC2S	PNL-L2A-SFU PNL-L2A-SFC1 PNL-L2A-SFC2 PNL-L2A-SFURO	INE1627	1135 1123(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
IV	PNL-L2B	5/26/2004	PNL-L2B	--	SF	PNL-L2B-SFU PNL-L2B-SFC1 PNL-L2B-SFC2	PNL-L2B-SFUS PNL-L2B-SFC1S PNL-L2B-SFC2S PNL-L2B-SFC1SR	PNL-L2B-SFU PNL-L2B-SFC1 PNL-L2B-SFC2	INE1627	1135 1123(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data. Odor sample PNL-L2B-SFC1 incorrectly reported as "L2A" following "L2B-SFU" sample.
IV	PNL-L3A	5/25/2004	PNL-L3A	--	SF	PNL-L3A-SFU PNL-L3A-SFC1 PNL-L3A-SFC2	PNL-L3A-SFUS PNL-L3A-SFC1S PNL-L3A-SFC2S	PNL-L3A-SFU PNL-L3A-SFC1 PNL-L3A-SFC2	INE1513	1135 1105(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
IV	PNL-L3B	5/25/2004	PNL-L3B	--	SF	PNL-L3B-SFU PNL-L3B-SFC1 PNL-L3B-SFC2	PNL-L3B-SFU PNL-L3B-SFC1S PNL-L3B-SFC2	PNL-L3B-SFU PNL-L3B-SFC1 PNL-L3B-SFC2	INE1513	1104 1135 1137 1105(s) 1094(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
IV	PNL-L4A	5/24/2004	PNL-L4A	--	SF	PNL-L4A-SFU PNL-L4A-SFC1 PNL-L4A-SFC2	PNL-L4A-SFUS PNL-L4A-SFC1S PNL-L4A-SFC2S	PNL-L4A-SFU PNL-L4A-SFC2	INE1447 ING0239	1104 1090(s)	1413 "Final"	Odor sample PNL-L4A-SFC1 incorrectly reported as "SFC2" following "SFU" sample. ING0239 has CAM 17 Metals, TCLP, STLC data for PNL-L4A
IV	PNL-L4B	5/24/2004	PNL-L4B	--	SF	PNL-L4B-SFU PNL-L4B-SFC1 PNL-L4B-SFC2	PNL-L4B-SFUS PNL-L4B-SFC1S PNL-L4B-SFC2S	PNL-L4B-SFU PNL-L4B-SFC2	INE1447	1104 1090(s)	1413 "Final"	
IV	PNL-L5A	5/24/2004	PNL-L5A	--	SF	PNL-L5A-SFU PNL-L5A-SFC1 PNL-L5A-SFC2	PNL-L5A-SFUS PNL-L5A-SFC1S PNL-L5A-SFC2S	PNL-L5A-SFU PNL-L5A-SFC1 PNL-L5A-SFC2	INE1447	1104 1090(s)	1413 "Final"	

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IV	PNL-L5B	5/25/2004	PNL-L5B	--	SF	PNL-L5B-SFU PNL-L5B-SFC1 PNL-L5B-SFC2	PNL-L5B-SFUS PNL-L5B-SFC1S SPNL-L5B-SFC2	PNL-L5B-SFU PNL-L5B-SFC1 PNL-L5B-SFC2	INE1513	1104 1094(s)	1413 "Final"	"REVISION" version of soil/waste data file includes hydrocarbon distribution data
IV	PNL-L3	6/29/2004	PNL-L3A, -L3B	--	--	--	--	--	INF1828	--	--	Resampled from drums for CAM 17 Metals, TCLP, STLC testing
IV	All Lagoon Retains	7/22/2004	PNL-L1A-1, -L1A-2, -L1B-1, -L2A-1, -L2B-1, -L3A-1, -L3B-1, -L4A-1, -L4B-1, -L5A-1, -L5B-1	--	--	--	--	--	ING1250	--	--	Results for CAM 17 Metals, TCLP, STLC
IV	Blank Flux Samples	5/25- 27/2004	--	--	SF	PNL-L1A-SF300 PNL-L5-100-SFU	PNL-L200-SFUS	PNL-L200-SFU	--	1104 1135 1105(s)	1413 "Final"	
V	PNL-PA1	6/15/2004	PNL-PA1 (16, 17.5, 19.5, 20.5, 22, and 23.5)	PNL-PA1-17-EC PNL-PA1-19-EC PNL-PA1-21-EC	--	--	--	--	INF0940	--	--	
V	PNL-PB1	6/15/2004	PNL-PB1 (18 and 22)	PNL-PB1-23.5-EC	--	--	--	--	INF0940	--	--	
V	PNL-PC1	6/14/2004	PNL-PC1 (7 and 9)	--	--	--	--	--	INF0844	--	--	
V	PNL-PC1A	6/14/2004	--	PNL-PC1A	--	--	--	--	INF0844	--	--	
V	PNL-PD1	6/14/2004	--	PNL-PD1 PNL-PD1-4-EC	--	--	--	--	INF0844	--	--	
V	PNL-PD1B	6/14/2004	--	PNL-PD1B	--	--	--	--	INF0844	--	--	
V	PNL-PE1	6/14/2004	PNL-PE1 (4, 6.5, 10.5, and 13.5)	PNL-PE1-7-EC PNL-PE1-12-EC	--	--	--	--	INF0844	--	--	
V	PNL-PG1	6/14/2004	--	PNL-PG1	--	--	--	--	INF0844	--	--	
V	PNL-PH1	6/15/2004	--	PNL-PH1-7-EC PNL-PH1-7 PNL-PH1-8.5-EC PNL-PH1-8.5 PNL-PH1-11 PNL-PH1-12.5	--	--	--	--	INF0940	--	--	
VIII	PNL-F1	6/30/2004	PNL-F1-7.5 AND 9 PNL-F1-10.5,12.5,13.5	PNL-F1-8.5 -EC	DHF	PNL-F1-13-T PNL-F1-13-TR	PNL-F1-13-S PNL-F1-13-SR	PNL-F1-13-O PNL-F1-13-OR	ING0001	1396 1395(s)	1413 "June..."	TIC reporting for 1,3-Butadiene and Acrylonitrile for "7.5 AND 9" composite.
			(Impacted cuttings from 5.5 to 8)	--	SF	SF-STY1-U-T SF-STY1-C1-T SF-STY1-C2-T	SF-STY1-U-S SF-STY1-U-SR SF-STY1-C1-S SF-STY1-C2-S	SF-STY1-U-O SF-STY1-U-OR SF-STY1-C1-O SF-STY1-C2-O	--	1412 1446 1406(s) 1414(s)	1413 "June..."	
VIII	PNL-F3	6/29/2004	--	PNL-F3-15-EC PNL-F3-14.5	--	--	--	--	INF1826	--	--	
VIII	PNL-F4	6/28/2004	PNL-F4-11.5 & 14.5 PNL-F4-17 & 17.5	PNL-F4-11-EC PNL-F4-14-EC PNL-F4-16.5-EC	DHF	PNL-F4-15-T	PNL-F4-15-S	PNL-F4-15-O	INF1737	1396 1379(s)	1413 "June..."	
VIII	PNL-F5	6/28/2004	PNL-F5-14 & 14.5	PNL-F5-17-EC	DHF	PNL-F5-13.5-T	PNL-F5-13.5-S	PNL-F5-13.5-O	INF1737	1376 1374(s)	1413 "June..."	
VIII	PNL-F6	6/28/2004	PNL-F6-5.5 & 11.5 PNL-F6-12 & 14	PNL-F6-10.5-EC	--	--	--	--	INF1737	--	--	
VIII	PNL-F7	6/28/2004	PNL-F7-8.5 & 11	PNL-F7-11.5-EC	--	--	--	--	INF1737	--	--	
VIII	PNL-F17	6/29/2004	--	PNL-F17-10	--	--	--	--	INF1826	--	--	
VIII	PNL-F18	6/29/2004	--	PNL-F18-9.5 PNL-F18-12	--	--	--	--	INF1826	--	--	

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VIII	PNL-F19	6/30/2004	--	PNL-F19-10.5 PNL-F19-14	DHF	PNL-F19-4-T PNL-F19-10-T	PNL-F19-4-S PNL-F19-10-S	PNL-F19-4-O PNL-F19-10-O	ING0001	1396 1395(s)	1413 "June..."	
VIII	PNL-F21	6/29/2004	--	PNL-F21-9.5 PNL-F21-11.5	--	--	--	--	INF1826	--	--	
VIII	PNL-F25	7/1/2004	--	PNL-F25-19	--	--	--	--	ING0094	--	--	
VIII	PNL-F27	6/29/2004	--	PNL-F27-8.5	--	--	--	--	INF1826	--	--	
VIII	Pit F	6/30/2004	--	Pit F_SAMPLE (Pit F waste)	SF	SF-STY2-U-T SF-STY2-U-TR SF-STY2-C1-T SF-STY2-C2-T	SF-STY2-U-S SF-STY2-C1-S SF-STY2-C2-S	SF-STY2-U-O SF-STY2-C1-O SF-STY2-C2-O	ING0001	1412 1446 1406(s) 1414(s)	1413 "June..."	TIC reporting for 1,3-Butadiene and Acrylonitrile
VIII	Pit F	6/30/2004	--	Pit F_BOTTOM (Pit F material near 4 feet below cover)	--	--	--	--	ING0001	--	--	TIC reporting for 1,3-Butadiene and Acrylonitrile
VIII	Blank Flux Samples	6/28- 30/2004	--	--	--	PNL-F75-1-T SF-BLK	PNL-F75-1-S SF-BLK-S	PNL-F75-1-O SF-BLK-ODOR	--	1396 1397(s) 1412	1413 "June..."	"SF-BLK-ODOR" reported as "SF- BLK-0" in odor report
I-IV	Multiple	5/3- 26/2004	PNL-1, -7, -8, -14 PNL-BA01, 06, 07, 08, 13 (all "stockpile") PNL-L1A/B, -L2A/B, -L4A, -L5B PNL-TP01, -TP02, -TP03, -TP04, -TP06 (all "stockpile" or "stockpile/waste")	--	--	--	--	--	INF1488	--	--	Results for CAM 17 Metals, TCLP, and STLC for Phase I through IV samples that exceeded applicable thresholds for metals in first analysis

Notes:

¹ Approximate depths of samples, in feet below ground surface, used in each composite are either in parentheses below sample ID or embedded in sample ID itself.

² Unless otherwise noted, all Soil/Waste samples were tested for TRPH, TPH, VOC, SVOC, Pesticides, PCBs, CAM 17 Metals, Chromium VI, Oil & Grease, Ignitability, Reactivity with water, pH, and organic lead. See RFS Appendix X for soil/waste reports.

³ "EC" in any discrete sample ID indicates Encore sampled (EPA 5035) and tested for VOCs only.

⁴ Flux types: DHF = Downhole, SF = Surface (vapor suppression testing), "--" = not applicable or undetermined

⁵ Flux sample name extensions: "DHF"--downhole flux, "SF"--surface flux, "T"--TO-15/3 sample, "S"--sulfur compound sample, "O"--odor sample, "R"--replicate, "B"--blank

⁶ Other surface flux sample name extensions: "U"--uncontrolled flux, "C1"--controlled flux using suppressant 1, etc.

⁷ Report "Identifiers" are alpha-numeric sub-components of the lab file name and are used to identify lab file with corresponding results.

⁸ Flux Report Identifier with "(s)" indicates the reporting of sulfur compound testing. However, "(s)" does not appear in lab report name. All flux lab reports are found in RFS Appendix F as Attachment C of the Technical Memorandum (Dr. Charles Schmidt).

⁹ Odor laboratory reports and Chain-of-Custody forms are found in RFS Appendix F.