Table 3-1

Summary of Analytical Results (mg/Kg) for VOCs Detected in Soil Samples Collected from Array 4 Area Before and After Six-Phase Heating*

Sample Location	Sample ID	Sample Depth (ft)	Benzene	Carbon Tetra-chloride	Chloroform	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Hexachloro-butadiene	Methylene Chloride	Tetrachloro-ethene	1,1,1,2-Tetrachloro-ethane	1,1,2,2-Tetrachloro-ethane	Trichloro-ethene	1,1,2-Trichloro-ethane
Before Heating															
T4-1 (AP-4090)	99PRDA-022-SL	15.5	**0.62**	**1.6**	**0.59**	**0.24**	**9.0**	**3.9**	**0.26**	**0.32 VFB**	**120**	**5.7**	**12000**	**640**	**35**
	99PRDA-023-SL	21	ND (0.090)	ND (0.050)	ND (0.050)	ND (0.050)	**0.12**	**0.10**	ND (0.14)	**0.26 VFB**	**0.59**	ND (0.050)	**32**	**4.3**	**0.060**
	99PRDA-024-SL	25.5	ND (0.060)	ND (0.030)	ND (0.030)	ND (0.030)	**0.32**	**0.15**	ND (0.090)	**0.15 VFB**	**0.090**	ND (0.030)	**2.9**	**2.3**	ND (0.030)
	99PRDA-025-SL	30.5	ND (0.090)	ND (0.040)	ND (0.040)	ND (0.040)	**0.20**	**0.11**	ND (0.13)	**0.23 VFB**	**0.14**	ND (0.040)	**3.2**	**2.4**	ND (0.040)
	99PRDA-026-SL	38.5	ND (0.060)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.030)	ND (0.10)	**0.19 VFB**	ND (0.030)	ND (0.030)	**0.21**	**0.48**	**0.040**
After Heating															
C4-1 (AP-4106)	00PRDA-011-SL	15.5	ND (0.059)	ND (0.030)	ND (0.030)	ND (0.030)	**0.40**	**0.12**	ND (0.089)	ND (0.15)	**0.12**	ND (0.030)	ND (0.030)	**12**	ND (0.030)
	00PRDA-012-SL	20.5	ND (0.051)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.077)	ND (0.13)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)
	00PRDA-013-SL**	20.5	ND (0.039)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.059)	ND (0.098)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)	ND (0.020)
	00PRDA-014-SL	30.5	ND (0.049)	ND (0.025)	ND (0.025)	**0.069**	**0.73**	**0.25**	ND (0.074)	ND (0.12)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)	ND (0.025)
	00PRDA-015-SL	35.5	ND (0.049)	ND (0.024)	ND (0.024)	ND (0.024)	**0.050**	ND (0.024)	ND (0.073)	ND (0.12)	ND (0.024)	ND (0.024)	ND (0.024)	**0.43**	ND (0.024)
Before Heating															
T4-2 (AP-4091)	No Sample	15													
	99PRDA-027-SL	20.5	ND (0.090)	ND (0.050)	ND (0.050)	ND (0.050)	**0.12**	**0.11**	ND (0.14)	**0.28 VFB**	**1.0**	ND (0.050)	**67**	**6.0 VMH**	**0.12**
	99PRDA-028-SL**	20.5	ND (0.070)	ND (0.030)	ND (0.030)	ND (0.030)	**0.14**	**0.13**	ND (0.10)	**0.20 VFB**	**0.80**	ND (0.030)	**59**	**5.7**	**0.11**
	99PRDA-029-SL	25.5	ND (0.060)	ND (0.030)	ND (0.030)	ND (0.030)	**0.14**	**0.13**	ND (0.10)	**0.19 VFB**	**0.14**	ND (0.030)	**1.5**	**2.9**	ND (0.030)
	99PRDA-030-SL	30.5	ND (0.080)	ND (0.040)	ND (0.040)	ND (0.040)	**0.20**	**0.11**	ND (0.13)	**0.24 VFB**	ND (0.040)	ND (0.040)	**1.2**	**1.6**	ND (0.040)
	No Sample	35													
After Heating															
C4-2 (AP-4107)	00PRDA-16-SL	16	ND (0.061)	ND (0.030)	ND (0.030)	**0.12**	**1.4**	**0.35**	ND (0.091)	ND (0.15)	**0.63**	ND (0.030)	ND (0.030)	**18**	ND (0.030)
	00PRDA-17-SL	21	ND (0.067)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.034)	ND (0.10)	ND (0.17)	**0.098**	ND (0.034)	ND (0.034)	**0.87**	ND (0.034)
	00PRDA-18-SL	25.5	ND (0.053)	ND (0.027)	ND (0.027)	ND (0.027)	**0.15**	**0.037**	ND (0.080)	ND (0.13)	ND (0.027)	ND (0.027)	ND (0.027)	**0.61**	ND (0.027)
	00PRDA-19-SL	30.5	ND (0.060)	ND (0.030)	ND (0.030)	**0.053**	**1.2**	**0.27**	ND (0.091)	ND (0.15)	ND (0.030)	ND (0.030)	ND (0.030)	**2.0**	ND (0.030)
	00PRDA-20-SL	35.5	ND (0.057)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.086)	ND (0.14)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)	ND (0.029)

NOTES:
* EPA Method 8260B
ND ( ) - Not Detected (method reporting limit)
VFB - Analyte detected in associated field blank
VMH - Matrix spike recoveries above established limits
**Duplicate sample pairs: 00PRDA-012-SL and 00PRDA-013-SL; 00PRDA-027-SL and 00PRDA-028-SL collected for quality assurance/quality control

Table 3-2

Summary of Analytical Results (mg/Kg) for VOCs Detected in Soil Samples Collected from Array 5 Area Before and After Six-Phase Heating*

Sample Location (and API Number)	Sample ID	Sample Depth (ft)	Benzene	Carbon Tetra-chloride	Chloroform	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Hexachloro-butadiene	Methylene Chloride	Tetrachloro-ethene	1,1,1,2-Tetrachloro-ethane	1,1,2,2-Tetrachloro-ethane	Trichloro-ethene	1,1,2-Trichloro-ethane
Before Heating															
E5-1 (AP-4038)	99PLR-11SL	17	ND (0.038)	ND (0.038) R	ND (0.038)	ND (0.095)	0.085 D	0.037 J,D	ND (0.038) R,VLL	0.18 D	0.099 D	ND (0.038)	1.1 D	1.6 D	ND (0.038)
	99PLR-12SL	37	ND (0.049)	ND (0.049) J	ND (0.049)	ND (0.120)	0.016 J,D	ND (0.049)	ND (0.049)	0.02 J,D	0.046 J,D	ND (0.049)	0.095 J,D	2.0 D	ND (0.049)
E5-2 (AP-4042)	99PLR-16SL	17	ND (0.046) VML	ND (0.046) VSL	ND (0.046) VSL	ND (0.110) VSL	0.18 D,VSL	0.11 J,D,VSL	ND (0.046) VSL	ND (0.046) VSL	0.53 D,VSL	ND (0.046) VSL	3.4 J,D,VSL	3.9 J,D,VSL	ND (0.046) VSL
E5-3 (AP-4041)	99PLR-15SL	17.5	ND (2.300)	ND (2.300)	ND (2.300)	ND (5.900)	0.830 J,D	ND (2.300)	ND (2.300)	ND (2.300)	34 D	ND (2.300)	1800 D	76 D	ND (2.300)
E5-4 (AP-4040)	99PLR-14SL	17	ND (0.075)	ND (0.075)	ND (0.075)	ND (0.190)	0.16 D	0.085 D	ND (0.075)	0.034 J,D	0.37 D	ND (0.075)	5.4 D	3.9 D	ND (0.075)
E5-5 (AP-4032)	99PLR-03SL	17	ND (0.210)	ND (0.210)	ND (0.210)	ND (0.520)	1.1 D	0.51 D	ND (0.210)	ND (0.210)	2.1 D	ND (0.210)	7.1 D	14 D	ND (0.210)
	99PLR-04SL	35.5	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.100)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	ND (0.040)	0.043 J,D,VML	0.94 D	ND (0.040)
E5-6 (AP-4031)	99PLR-01SL	19	ND (0.470)	ND (0.470)	ND (0.470)	ND (1.200)	0.82 D	0.23 J,D	ND (0.470)	ND (0.470)	7.5 D	ND (0.470)	39 D	30 D	ND (0.470)
	99PLR-02SL	27	ND (0.070)	ND (0.070) VML	ND (0.070)	ND (0.180)	0.06 J,D	0.054 J,D	ND (0.070)	ND (0.070)	0.29 D	ND (0.070)	0.36 D	5.7 J,D	ND (0.070)
E5-N (AP-4039)	99PLR-13SL	17.5	ND (0.230)	ND (0.230)	ND (0.230)	ND (0.570)	0.11 J,D	0.053 J,D	ND (0.230)	ND (0.230)	0.56 D	ND (0.230)	23 D	3.1 D	ND (0.230)
V5-1 (AP-4033)	99PLR-05SL	17	ND (0.430)	ND (0.430) R	ND (0.430)	ND (1.100)	1.1 D	0.35 J,D	ND (0.430) R	1.3 B,D	0.9 J,D	ND (0.430) R	10 D	13 D	ND (0.430)
	99PLR-06SL	27.5	ND (0.038)	ND (0.038) R	ND (0.038)	ND (0.095)	0.041 D	0.029 J,D	ND (0.038) R,VLL	0.013 J,D	0.2 D	ND (0.038)	0.35 D	2.2 D	ND (0.038)
V5-2 (AP-4035)	99PLR-09SL	17.5	ND (0.870)	ND (0.870) R	ND (0.870)	ND (2.200)	0.22 J,D	ND (0.870) R	ND (0.870) R	2.6 B,D	3.7 J,D	ND (0.870) R	88 D	11 D	ND (0.870)
	99PLR-10SL	25	ND (0.068)	ND (0.068) R	ND (0.068)	ND (0.170)	0.15 D	0.093 J,D,VML	ND (0.068) R	0.21 B,J,D,VML	0.097 D	ND (0.068) R,VML	0.74 J,D,VML	2.7 J,D,VMH	ND (0.068) J,VML
V5-3 (AP-4034)	99PLR-07SL	17.5	ND (0.400)	ND (0.400) R	ND (0.400)	ND (1.000)	0.200 J,D	0.11 J,D	ND (0.400) R	1.0 B,D	1.0 J,D	ND (0.400) R	18 D	6.4 D	ND (0.400)
	99PLR-08SL	27.5	ND (0.034)	ND (0.034) VMH	ND (0.034)	ND (0.086)	0.098 D	0.062 D	ND (0.034)	ND (0.034)	0.037 D	ND (0.034) VMH	0.16 D	1.4 D	ND (0.034)
After Heating															
C5-1 (AP-5104)	00PRDA-001-SL	15	ND (0.077)	ND (0.039)	ND (0.039)	ND (0.039)	0.36	0.18	ND (0.12)	ND (0.19)	0.047	ND (0.039)	ND (0.039)	1.9	ND (0.039)
	00PRDA-002-SL	20.5	ND (0.053)	ND (0.027)	ND (0.027)	ND (0.027)	0.042	ND (0.027)	ND (0.080)	ND (0.13)	0.039	ND (0.027)	ND (0.027)	1.4	ND (0.027)
	00PRDA-003-SL	25	ND (0.072)	ND (0.036)	ND (0.036)	ND (0.036)	ND (0.036)	ND (0.036)	ND (0.11)	ND (0.18)	0.08	ND (0.036)	ND (0.036)	0.51	ND (0.036)
	No Sample	30													
	No Sample	35													
C5-2 (AP-4105)	00PRDA-005-SL	16	ND (0.052)	ND (0.026)	ND (0.026)	ND (0.026)	0.027	ND (0.026)	ND (0.078)	ND (0.13)	0.34	ND (0.026)	0.36	1.7	ND (0.026)
	00PRDA-006-SL**	16	ND (0.045)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.022)	ND (0.067)	ND (0.11)	0.14	ND (0.022)	0.083	0.95	ND (0.022)
	No Sample	20													
	00PRDA-008-SL	25	ND (0.050)	ND (0.025)	ND (0.025)	ND (0.025)	0.14	0.043	ND (0.075)	ND (0.13)	ND (0.025)	ND (0.025)	ND (0.025)	0.97	ND (0.025)
	00PRDA-009-SL	30.5	ND (0.045)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.068)	ND (0.11)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)	ND (0.023)
	00PRDA-010-SL	36	ND (0.037)	ND (0.019)	ND (0.019)	0.053	0.37	0.085	ND (0.056)	ND (0.094)	0.048	ND (0.019)	ND (0.019)	7.5	ND (0.019)
After Heating (URS Rejected Data)															
	00PRDA-004-SL	30.5	ND (0.064) R,VR	ND (0.032) R,VR	ND (0.032) R,VR	ND (0.032) R,VR	ND (0.032) R,VR	ND (0.032) R,VR	ND (0.095) R,VR	ND (0.16) R,VR	0.049 R,VR	ND (0.032) R,VR	ND (0.032) R,VR	0.8 R,VR	ND (0.032) R,VR
	00PRDA-007-SL	20.5	ND (0.11) J,R,VR	ND (0.054) J,R,VR	ND (0.054) J,R,VR	ND (0.054) J,R,VR	0.28 J,R,VR	0.10 J,R,VR	ND (0.16) J,R,VR	0.28 J,R,VR	0.31 J,R,VR	ND (0.054) J,R,VR	0.11 J,R,VR	8.4 J,R,VR	ND (0.054) J,R,VR

NOTES:
- * EPA Method 8260B
- B - Analyte was detected in associated trip blank
- D - Analyte analyzed at a secondary dilution
- J - Estimated value
- ND ( ) - Not detected (method reporting limit)
- R - Value rejected based on QA/QC review (U. S. Army Corps of Engineers, 1999, unless noted otherwise)
- VLL - Lab control sample recoveries below established limits
- VMH - Matrix spike recoveries above established limits
- VML - Matrix spike recoveries below established limits
- VR - Rejected value
- VSL - Surrogate recoveries below established limits
- **Duplicate sample pair: 00PRDA-005-SL and 00PRDA-006-SL collected for quality assurance/quality control

Table 3-3

Summary of Analytical Results (mg/Kg) for VOCs Detected in Soil Samples Collected from Array 6 Area Before and After Six-Phase Heating*

Sample Location (and API Number)	Sample ID	Sample Depth (ft)	Benzene	Carbon Tetra-chloride	Chloroform	1,1-Dichloro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	Hexachloro-butadiene	Methylene Chloride	Tetrachloro-ethene	1,1,1,2-Tetrachloro-ethane	1,1,2,2-Tetrachloro-ethane	Trichloro-ethene	1,1,2-Trichloro-ethane
Before Heating															
T6-1 (AP-4102)	99PRDA-035-SL	16	ND (0.12)	ND (0.060)	ND (0.060)	**0.20**	**3.2**	**3.5**	ND (0.18)	ND (0.30)	**3.1**	ND (0.060)	**530**	**200**	**0.75**
	99PRDA-036-SL	20.5	ND (0.12)	ND (0.060)	ND (0.060)	ND (0.060)	**0.46**	**0.34**	ND (0.18)	ND (0.29)	**1.0**	ND (0.060)	**32**	**20**	**0.14**
	99PRDA-037-SL**	20.5	ND (0.080)	ND (0.040)	ND (0.040)	ND (0.040)	**0.11**	**0.10**	ND (0.12)	ND (0.21)	**0.32**	ND (0.040)	**8.6**	**4.70**	ND (0.040)
	99PRDA-039-SL	26	ND (0.080)	ND (0.040)	ND (0.040)	ND (0.040)	**0.18**	**0.13**	ND (0.12)	ND (0.20)	ND (0.040)	ND (0.040)	**0.40**	**2.50**	ND (0.040)
	99PRDA-040-SL	31	ND (0.060)	ND (0.030)	ND (0.030)	ND (0.030)	**0.25**	**0.22**	ND (0.090)	ND (0.15)	**0.35**	ND (0.030)	**10**	**5.60**	**0.060**
	99PRDA-041-SL	37	ND (0.060)	ND (0.030)	ND (0.030)	ND (0.030)	**0.21**	**0.15**	ND (0.090)	ND (0.16)	**0.54**	ND (0.030)	**57**	**9.20**	**0.25**
After Heating															
C6-1 (AP-4108)	00PRDA-21-SL	15.5	ND (0.067)	ND (0.033)	ND (0.033)	**0.43**	**5.3**	**2.4**	ND (0.10)	ND (0.17)	**0.71**	ND (0.033)	ND (0.033)	**63**	ND (0.033)
	00PRDA-22-SL**	15.5	ND (0.064)	ND (0.032)	ND (0.032)	**0.51**	**5.3**	**2.5**	ND (0.096)	ND (0.16)	**0.73**	ND (0.032)	ND (0.032)	**61**	ND (0.032)
	00PRDA-23-SL	20.5	ND (0.044)	ND (0.022)	ND (0.022)	ND (0.022)	**0.16**	ND (0.022)	ND (0.066)	ND (0.11)	ND (0.022)	ND (0.022)	ND (0.022)	**0.43**	ND (0.022)
	00PRDA-24-SL	25	ND (0.054)	ND (0.027)	ND (0.027)	ND (0.027)	**0.082**	ND (0.027)	ND (0.081)	ND (0.13)	ND (0.027)	ND (0.027)	ND (0.027)	**0.12**	ND (0.027)
	00PRDA-25-SL	30	ND (0.042)	ND (0.021)	ND (0.021)	ND (0.021)	**0.27**	**0.066**	ND (0.063)	ND (0.11)	**0.064**	ND (0.021)	ND (0.021)	**3.10**	ND (0.021)
	00PRDA-26-SL	35	ND (0.051)	ND (0.025)	ND (0.025)	**0.076**	**0.56**	**0.24**	ND (0.076)	ND (0.13)	**0.13**	ND (0.025)	ND (0.025)	**6.70**	ND (0.025)
Before Heating															
T6-2 (AP-4103)	99PRDA-031-SL	15.5	ND (0.11)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.16)	ND (0.27)	**0.090**	ND (0.050)	**0.070**	**1.70 VMH**	ND (0.050)
	No Sample	20													
	99PRDA-032-SL	26	ND (0.090)	ND (0.040)	ND (0.040)	ND (0.040)	**0.090**	**0.13**	ND (0.13)	ND (0.21)	ND (0.040)	ND (0.040)	**0.48**	**1.50**	ND (0.040)
	99PRDA-033-SL	30.5	ND (0.14)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.21)	ND (0.35)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)	ND (0.070)
	99PRDA-034-SL	36.5	ND (0.090)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.050)	ND (0.14)	ND (0.23)	**0.15**	ND (0.050)	**0.30**	**1.70**	ND (0.050)
After Heating															
C6-2 (AP-4109)	00PRDA-27-SL	15.5	ND (0.065)	ND (0.032)	ND (0.032)	ND (0.032)	ND (0.032)	ND (0.032)	ND (0.097)	ND (0.16)	ND (0.032)	ND (0.032)	ND (0.032)	**0.84**	ND (0.032)
	00PRDA-28-SL	20.5	ND (0.066)	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.033)	ND (0.099)	ND (0.16)	ND (0.033)	ND (0.033)	ND (0.033)	**0.20**	ND (0.033)
	00PRDA-29-SL	25.5	ND (0.055)	ND (0.028)	ND (0.028)	ND (0.028)	**0.41**	**0.071**	ND (0.083)	ND (0.14)	ND (0.028)	ND (0.028)	ND (0.028)	**0.39**	ND (0.028)
	00PRDA-30-SL	30.5	ND (0.053)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.079)	ND (0.13)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)	ND (0.026)
	00PRDA-31-SL	35.5	ND (0.049)	ND (0.025)	ND (0.025)	ND (0.025)	**0.19**	**0.042**	ND (0.074)	ND (0.12)	**0.063**	ND (0.025)	ND (0.025)	**1.70**	ND (0.025)

NOTES:
* EPA Method 8260B
ND ( ) - Not Detected (method reporting limit)
VMH - Matrix spike recoveries above established limits
**Duplicate sample pairs: 00PRDA-036-SL and 00PRDA-037-SL; 00PRDA-021-SL and 00PRDA-022-SL collected for quality assurance/quality control

Table 3-4
Percent of Primary VOCs Removed from Soil by Six-Phase Heating (Array 4 and Array 6 Areas)

Co-Located Soil Boring IDs (Before/After)	Sample ID (Before SPH)	Sample ID (After SPH)	Sample Depths (ft)	1,1,2,2-Tetrachloroethane (mg/kg)			Tetrachloroethene (mg/kg)			Trichloroethene (mg/kg)		
				Before SPH	After SPH	% Removed	Before SPH	After SPH	% Removed	Before SPH	After SPH	% Removed
Array 4 Area												
T4-1 / C4-1	99PRDA-022-SL	00PRDA-011-SL	15.5	12000	ND (0.03)	99.9998	120	0.12	99.90	640	12	98
	99PRDA-023-SL	00PRDA-012-SL	21 20.5	32	ND (0.026)	99.92	0.59	ND (0.026)	96	4.3	ND (0.026)	99
	99PRDA-024-SL	No Sample	25.5	2.9			0.09			2.4		
	99PRDA-025-SL	00PRDA-014-SL	30.5	3.2	ND (0.025)	99.22	0.14	ND (0.025)	82	2.4	ND (0.025)	99
	99PRDA-026-SL	00PRDA-015-SL	38.5 35.5	0.21	ND (0.024)	89	ND (0.030)	ND (0.024)		0.48	0.43	10
T4-2 / C4-2	99PRDA-027-SL	00PRDA-017-SL	20.5 21	67	ND (0.034)	99.95	1	0.098	90	6	0.87	86
	99PRDA-029-SL	00PRDA-018-SL	25.5	1.5	ND (0.027)	98	0.14	ND (0.027)	81	2.9	0.61	79
	99PRDA-030-SL	00PRDA-019-SL	30.5	1.2	ND (0.03)	98	ND (0.040)	ND (0.03)		1.6	2	-25
Array 6 Area												
T6-1 / C6-1	99PRDA-035-SL	00PRDA-021-SL	16 15.5	530	ND (0.033)	99.99	3.1	0.71	77	200	63	69
	99PRDA-036-SL	00PRDA-023-SL	20.5	32	ND (0.022)	99.93	1	ND (0.022)	98	20	0.43	98
	99PRDA-039-SL	00PRDA-024-SL	26 25	0.4	ND (0.027)	93	ND (0.040)	ND (0.027)		2.5	0.12	95
	99PRDA-040-SL	00PRDA-025-SL	31 30	10	ND (0.021)	99.79	0.35	0.064	82	5.6	3.1	45
	99PRDA-041-SL	00PRDA-026-SL	37 35	57	ND (0.025)	99.96	0.54	0.13	76	9.2	6.7	27
T6-2 / C6-2	99PRDA-031-SL	00PRDA-027-SL	15.5	0.07	ND (0.032)	54	0.09	ND (0.032)	64	1.7	0.84	51
	99PRDA-032-SL	00PRDA-029-SL	26 25.5	0.48	ND (0.028)	94	ND (0.040)	ND (0.028)		1.5	0.39	74
	99PRDA-033-SL	00PRDA-030-SL	30.5	ND (0.070)	ND (0.026)	63	ND (0.070)	ND (0.026)		ND (0.070)	ND (0.026)	
	99PRDA-034-SL	00PRDA-031-SL	36.5 35.5	0.3	ND (0.025)	92	0.15	0.063	58	1.7	1.7	0
		Average Array 4 Area		1513.50	0.03	99.998	15.25	0.05	99.67	82.50	2.28	97.24
		Average Array 6 Area		70.04	0.03	99.96	0.60	0.12	79.52	26.92	8.48	68.50
			RAOs*		0.10			4.0			0.015	

NOTES:

ND ( ) - Not Detected (method reporting limit)

When an analyted was not detected, the dection limit was used for calculation of average

Table 3-5
Percent of Primary VOCs Removed from Soil by Six-Phase Heating (Array 5 Area)

Soil Boring ID	Sample ID	Sample Depths (ft)	1,1,2,2-Tetrachloro-ethane (mg/kg)	Tetrachloro-ethene (mg/kg)	Trichloro-ethene (mg/kg)
Before Heating					
E5-1	99PLR-11SL	17	**1.1**	**0.10**	**1.60**
	99PLR-12SL	37	**0.095**	**0.05**	**2.00**
E5-2	99PLR-16SL	17	**3.4**	**0.53**	**3.90**
E5-3	99PLR-15SL	17.5	**1800**	**34.00**	**76.00**
E5-4	99PLR-14SL	17	**5.4**	**0.37**	**3.90**
E5-5	99PLR-03SL	17	**7.1**	**2.10**	**14.00**
	99PLR-04SL	35.5	**0.043**	ND (0.04)	**0.94**
E5-6	99PLR-01SL	19	**39**	**7.50**	**30.00**
	99PLR-02SL	27	**0.36**	**0.29**	**5.70**
E5-N	99PLR-13SL	17.5	**23**	**0.56**	**3.10**
V5-1	99PLR-05SL	17	**10**	**0.90**	**13.00**
	99PLR-06SL	27.5	**0.35**	**0.20**	**2.20**
V5-2	99PLR-09SL	17.5	**88**	**3.70**	**11.00**
	99PLR-10SL	25	**0.74**	**0.10**	**2.70**
V5-3	99PLR-07SL	17.5	**18**	**1.00**	**6.40**
	99PLR-08SL	27.5	**0.16**	**0.04**	**1.40**
Average Concentrations Before Heating			**124.80**	**3.22**	**11.12**
After Heating					
C5-1	00PRDA-001-SL	15	ND (0.039)	**0.047**	**1.9**
	00PRDA-002-SL	20.5	ND (0.027)	**0.039**	**1.4**
	00PRDA-003-SL	25	ND (0.036)	**0.080**	**0.51**
C5-2	00PRDA-005-SL	16	**0.36**	**0.34**	**1.7**
	00PRDA-006-SL	16	**0.083**	**0.14**	**0.95**
	00PRDA-008-SL	25	ND (0.025)	ND (0.025)	**0.97**
	00PRDA-009-SL	30.5	ND (0.023)	ND (0.023)	ND (0.023)
	00PRDA-010-SL	36	ND (0.019)	**0.048**	**7.5**
Average Concentrations After Heating			**0.08**	**0.09**	**1.87**
% Removed			**99.94**	**97.12**	**83.18**
Remedial Action Objectives*			**0.10**	**4.0**	**0.015**

NOTES: ND ( ) - Analyte Not Detected (method reporting limit)
When an analyte was not detected, the detection limit was used for calculation of average

Table 3-6
Concentrations (mg/L) of Contaminants of Concern in Groundwater Samples Collected Before and After Six-Phase Heating

Month Sampled (1999)	Analyte	MW-19	MW-22	MW-23	Remedial Action Objective
March	benzene	ND(0.001)	ND(0.01)	ND(0.01)	0.005
November		ND(0.001)	ND(0.001)	ND(0.001)	
March	carbon tetrachloride	ND(0.001)	ND(0.01)	ND(0.01)	0.005
November		ND(0.001)	0.0037 VJ	ND(0.001)	
March	cis-1,2-dichloroethene	0.014	0.180	0.230	0.07
November		0.01 VJ	0.058 VJ	0.300 VJ	
March	trans-1,2-dichloroethene	0.006	0.060	0.094	0.1
November		0.0013 VJ	0.015 VJ	0.036 VJ	
March	1,1,2,2-tetrachloroethane	0.690	2.800	17.000	0.052
November		0.850 VJ	0.810 VJ	0.100 VJ	
March	tetrachloroethene	0.007	0.062	0.072	0.005
November		ND(0.001)	0.029 VJ	0.010 VJ	
March	trichloroethene	0.280	1.700 VML	3.100	0.005
November		0.021 VJ	1.600 VJ	0.970 VJ	
Sample ID (March)		99PRDA-013-WA	99PRDA-020-WA	99PRDA-021-WA	
Sample ID (November)		99PRDA-118-GW	99PRDA-122-GW	99PRDA-125-GW	

Note

ND( ) - Analyte Not Detected (Method Reporting Limit)

VJ - Estimated Value

VML - Matrix spike recoveries below established limits

Table 3-7
Summary of Analytes Detected (ppmV) in Condenser Off-Gas Samples (EPA Method TO-14)

Sample ID	Sample Date	Days from Start of SVE	Acetone	Carbon Disulfide	1,1-Dichoro-ethene	cis-1,2-Dichloro-ethene	trans-1,2-Dichloro-ethene	1,1,2-Trichloro-ethane	Trichloro-ethene	Tetrachloro-ethene	1,1,2,2-Tetrachloro-ethane
99-PRDA-042-AR	7/16/99	-17	ND (0.630)	ND (0.630)	ND (0.160)	1.3	0.64	ND (0.160)	32	1.4	18
99-PRDA-043-AR	7/20/99	-13	ND (0.400)	ND (0.400)	ND (0.100)	1.1	0.58	0.11	25	1.0	30
99-PRDA-044-AR	8/4/99	2	ND (1.600)	ND (1.600)	ND (0.400)	5.9	3.0	0.43	110	4.9	100
99PRDA-045-AR	8/10/99	8	ND (4.800)	ND (4.800)	ND (1.20)	12	6.0	ND (1.20)	240	9.5	8.4
99PRDA-047-AR	8/12/99	10	2.2	ND (2.100)	ND (0.520)	7.0	3.4	ND (0.520)	130	6.4	58
99PRDA-049-AR	8/14/99	12	ND (2.400)	ND (2.400)	ND (0.600)	4.9	2.9	ND (0.600)	140	5.2	43
99PRDA-051-AR	8/16/99	14	ND (2.100)	ND (2.100)	ND (0.520)	4.0	2.4	ND (0.520)	110	4.1	33
99PRDA-053-AR	8/19/99	17	ND (2.100)	ND (2.100)	ND (0.520)	2.0	ND (2.100)	ND (0.520)	76	3.5	24
99PRDA-055-AR	8/21/99	19	ND (2.900)	ND (2.900)	ND (0.720)	2.8	ND (2.900)	ND (0.720)	120	5.0	17
99PRDA-057-AR	8/23/99	21	ND (1.900)	ND (1.900)	ND (0.470)	2.9	2.4	ND (0.470)	120	4.9	25
99PRDA-059-AR	8/25/99	23	ND (2.800)	ND (2.800)	ND (0.700)	4.0	ND (2.800)	ND (0.700)	160	6.0	48
99PRDA-061-AR	8/27/99	25	ND (2.600)	ND (2.600)	ND (0.650)	3.9	2.6	ND (0.650)	150	5.3	37
99PRDA-063-AR	8/30/99	28	1.9	ND (1.600)	ND (0.400)	2.8	2.1	ND (0.400)	85	3.5	20
99PRDA-065-AR	9/1/99	30	1.7	ND (1.400)	ND (0.340)	2.4	1.7	ND (0.340)	74	2.9	17
99PRDA-067-AR	9/4/99	33	2.5	ND (1.600)	ND (0.400)	2.0	ND (1.600)	ND (0.400)	75	3.2	18
99PRDA-069-AR	9/6/99	35	2.1	1.0	ND (0.200)	1.5	0.93	ND (0.200)	53	2.3	14
99PRDA-071-AR	9/8/99	37	1.7	ND (0.800)	ND (0.200)	1.5	0.89	ND (0.200)	51	2.2	13
99PRDA-073-AR	9/10/99	39	2.7	ND (1.600)	ND (0.400)	2.5	ND (1.600)	ND (0.400)	84	3.6	20
99PRDA-075-AR	9/15/99	44	2.3	ND (1.200)	0.32	2.4	1.7	ND (0.290)	61	2.9	14
99PRDA-077-AR	9/17/99	46	2.5	ND (1.900)	ND (0.480)	2.5	ND (1.900)	ND (0.480)	67	3.0	13
99PRDA-079-AR	9/19/99	48	2.8	ND (2.700)	ND (0.670)	4.0	ND (2.700)	ND (0.670)	120	5.3	18
99PRDA-081-AR	9/21/99	50	1.4	ND (0.830)	ND (0.210)	1.6	0.96	ND (0.210)	46	2.0	8.4
99PRDA-083-AR	9/23/99	52	1.5	ND (0.670)	0.26	1.9	1.1	ND (0.170)	49	2.2	8.7
99PRDA-085-AR	9/25/99	54	1.7	ND (0.480)	0.24	2.0	1.1	ND (0.120)	46	2.1	7.7
99PRDA-087-AR	9/28/99	57	1.4	ND (0.400)	0.21	1.6	0.89	ND (0.100)	36	1.7	6.4
99PRDA-089-AR	9/30/99	59	2.1	ND (0.850)	0.33	2.1	1.4	ND (0.210)	41	2.4	5.4
99PRDA-091-AR	10/2/99	61	2.2	ND (0.950)	0.32	2.3	1.4	ND (0.240)	49	2.0	6.2
99PRDA-093-AR	10/4/99	63	1.8	ND (0.800)	0.32	2.5	1.3	ND (0.200)	46	1.7	4.4
99PRDA-095-AR	10/6/99	65	4.3	1.0	ND (0.200)	2.1	1.2	ND (0.200)	44	1.7	7.1
99PRDA-097-AR	10/8/99	67	4.1	0.69	ND (0.100)	1.2	0.76	ND (0.100)	24	1.3	6.1
99PRDA-099-AR	10/10/99	69	2.2	0.41	ND (0.068)	0.78	0.50	ND (0.068)	14	0.75	3.7
99PRDA-101-AR	10/12/99	71	1.8	ND (0.400)	ND (0.100)	0.87	0.51	ND (0.100)	18	0.90	4.3
99PRDA-103-AR	10/14/99	73	1.4	0.27	ND (0.051)	0.78	0.45	ND (0.051)	14	0.72	3.2

NOTES: ND ( ) - Not Detected (method reporting limit)

Table 3-8
Summary of Analytes Detected (mg/L) in Condensate Water Samples*

Sample ID	Sample Date	Acetone	Bromoform	trans-1,2-Dichloro-ethene	cis-1,2-Dichloro-ethene	1,1,2-Trichloro-ethane	Trichloro-ethene	Tetrachloro-ethene	1,1,2,2-Tetrachloro-ethane
99PRDA-046-WA	8/10/99	NA	ND (0.010)	**0.075**	**0.57**	**0.16**	**7.5**	**0.20**	**61**
99PRDA-048-WA	8/12/99	NA	ND (0.025)	**0.029**	**0.52**	**0.079**	**3.1**	**0.088**	**26**
99PRDA-050-WA	8/14/99	NA	ND (0.025)	**0.015**	**0.14**	**0.031**	**4.9**	**0.051**	**18**
99PRDA-052-WA	8/16/99	NA	ND (0.025)	**0.014**	**0.13**	**0.028**	**1.8**	**0.045**	**11**
99PRDA-054-WA	8/19/99	NA	ND (0.025)	**0.014**	**0.11**	**0.026**	**1.8**	**0.043**	**12**
99PRDA-056-WA	8/21/99	NA	ND (0.025)	ND (0.010)	**0.10**	ND (0.010)	**1.9**	**0.05**	**12**
99PRDA-058-WA	8/23/99	NA	ND (0.025)	ND (0.010)	**0.11**	**0.036**	**1.9**	**0.056**	**11**
99PRDA-060-WA	8/25/99	NA	ND (0.025)	ND (0.010)	**0.073**	ND (0.010)	**1.3**	**0.029**	**8.5**
99PRDA-062-WA	8/27/99	NA	ND (0.025)	ND (0.010)	**0.085**	ND (0.010)	**1.4**	**0.035**	**6.8**
99PRDA-064-WA	8/30/99	**1.1**	ND (0.150)	ND (0.050)	**0.064**	ND (0.050)	**1.5**	ND (0.050)	**8.3**
99PRDA-066-WA	9/1/99	**1.1**	ND (0.150)	ND (0.050)	**0.054**	ND (0.050)	**1.1**	ND (0.050)	**6.1**
99PRDA-068-WA	9/4/99	**2.2**	ND (0.150)	ND (0.050)	**0.064**	ND (0.050)	**1.1**	ND (0.050)	**8.5**
99PRDA-070-WA	9/6/99	**2.5**	ND (0.150)	ND (0.050)	**0.054**	ND (0.050)	**0.87**	ND (0.050)	**8.5**
99PRDA-072-WA	9/8/99	NA	ND (0.025)	ND (0.010)	ND (0.010)	**0.022**	**1.1**	**0.036**	**5.7**
99PRDA-074-WA	9/10/99	NA	ND (0.025)	ND (0.010)	ND (0.010)	**0.020**	**1.1**	**0.037**	**5.7**
99PRDA-076-WA	9/15/99	NA	ND (0.025)	ND (0.010)	ND (0.010)	**0.030**	**1.7**	**0.057**	**4.4**
99PRDA-078-WA	9/17/99	NA	ND (0.025)	ND (0.010)	ND (0.010)	**0.017**	**0.82**	**0.025**	**4.9**
99PRDA-080-WA	9/19/99	NA	ND (0.025)	**0.022**	**0.18**	**0.032**	**1.7**	**0.056**	**10**
99PRDA-082-WA	9/21/99	NA	ND (0.025)	**0.011**	**0.09**	**0.016**	**0.73**	**0.025**	**6.7**
99PRDA-084-WA	9/23/99	NA	ND (0.025)	ND (0.010)	**0.10**	ND (0.010)	**0.79**	ND (0.010)	**4.8**
99PRDA-086-WA	9/25/99	NA	ND (0.025)	ND (0.010)	**0.10**	ND (0.010)	**0.72**	ND (0.010)	**3.8**
99PRDA-088-WA	9/28/99	NA	ND (0.025)	ND (0.010)	**0.088**	ND (0.010)	**0.56**	ND (0.010)	**2.5**
99PRDA-090-WA	9/30/99	NA	ND (0.025)	ND (0.010)	**0.15**	ND (0.010)	**0.93**	ND (0.010)	**2.6**
99PRDA-092-WA	10/2/99	NA	ND (0.025)	**0.012**	**0.10**	ND (0.010)	**0.53**	**0.017**	**1.6**
99PRDA-094-WA	10/4/99	NA	ND (0.025)	ND (0.010)	**0.062**	ND (0.010)	**0.34**	**0.012**	**1.1**
99PRDA-096-WA	10/6/99	NA	**0.025**	ND (0.010)	**0.094**	ND (0.010)	**0.56**	**0.018**	**2.8**
99PRDA-098-WA	10/8/99	NA	ND (0.025)	ND (0.010)	**0.072**	ND (0.010)	**0.46**	ND (0.010)	**3.2**
99PRDA-100-WA	10/10/99	NA	ND (0.025)	ND (0.010)	**0.057**	ND (0.010)	**0.37**	ND (0.010)	**2.4**
99PRDA-102-WA	10/12/99	NA	ND (0.025)	ND (0.010)	**0.040**	ND (0.010)	**0.23**	ND (0.010)	**1.2**
99PRDA-104-WA	10/14/99	NA	ND (0.025)	ND (0.010)	**0.068**	ND (0.010)	**0.40**	ND (0.010)	**2.8**

NOTES:
* - EPA Method 8021B (except for samples 99PRDA-064-WA, 99PRDA-066-WA, 99PRDA-068-WA, and 99PRDA-070-WA which were analyzed using EPA Method 8260B)
NA - Not Analyzed
ND ( ) - Not Detected (method reporting limit)