



**Shaw Environmental, Inc.**

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214.277-7800

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May 4, 2004

Shaw Project No. 829700

BWXT Pantex, LLC  
Mr. Allen Dull  
Environmental Restoration Department, Bldg. T-9061  
P.O. Box 30020  
Amarillo, Texas 79120-0020

**RE: Operation and Maintenance Report (April 2004)  
Pantex Burning Grounds Facility  
Soil Vapor Extraction (SVE) System  
Amarillo, Texas**

Dear Mr. Dull:

Shaw Environmental, Inc. (Shaw) has completed the operation and maintenance (O & M) of the above referenced remediation system for April 2004.

**SVE System Operation:**

Shaw personnel performed O & M activities on the Soil vapor extraction (SVE) system nine times during April and the system operated for approximately 551 hours.

Additional O & M operations onsite included data collection and equipment maintenance. Data collection included measuring the vacuum, differential pressure, and vapor concentration readings for each SVE well in operation. Other recorded data included catalyst-in temperature, catalyst-out temperature, oxidizer temperature, scrubber temperature, blow-down liquid conductivity, pH, and system flow-rate.

At the writing of this report, the lower screen portions of three shallow wells and five intermediate wells were in operation. Please note that due to packer placement at this time, no vacuum is being pulled from the upper screen portions of the wells in operation. Therefore, the attachments for this report do not include data for the upper screen portions of the wells.

Vacuum readings recorded for each SVE well in operation ranged from 11 to 72 inches of water column with an average of 50 inches of water column. Vapor concentrations, as measured with a photo ionization detector (PID), for each well ranged from 15 ppm to more than 2000 ppm (instrument limit) with an average of 274 ppm. Air flow-rates for each individual SVE well in operation were calculated using the vacuum and differential pressure readings. The calculated flow-rates at each well varied from 0 to 209 scfm with an average of 93 scfm.

Influent and effluent air samples were collected on April 12, 2004. The samples were analyzed for volatile organic compounds (VOCs) via EPA Method 8260B. The laboratory analysis indicated detections of toluene, trichloroethylene (TCE) and 1,1,1-trichloroethane (TCA), with all other analytes being non-detect.

The following concentrations were reported for the influent air sample:

<b>Analyte</b>	<b>Concentration (ppmv)</b>
Total Toluene	19.19
Total TCE	0.81
Total 1,1,1-TCA	0.22

The effluent air sample indicated that all constituents analyzed were below the method detection limits with the exception of toluene at 2.26 ppmv and TCE at 0.19 ppmv. Therefore, the off-gas treatment unit obtained a destruction efficiency of approximately 88 percent. A copy of the referenced laboratory report has been attached herein. However, the influent and effluent vapor data collected in the field using a PID on April 12, 2004 yielded a destruction efficiency of approximately 97 percent. Also, the influent and effluent data collected in the field using a PID yielded an average destruction

efficiency of approximately 96 percent for this month. Therefore, the PID readings indicate that the average destruction efficiency of the thermal oxidizer was above 90 percent for the month.

Mass removal calculations indicate that approximately 123 pounds of toluene, 7 pounds of TCE and 2 pound of 1,1,1-TCA were recovered during the month. A total of approximately 132 pounds of contaminated mass was removed from the sub-surface during the month. A cumulative contaminated mass of approximately 10,205 pounds has been removed by the SVE system through April 2004. The average mass removal rates for April were calculated as 0.24 pounds per hour for toluene, 0.01 pounds per hour for TCE and 0.004 pounds per hour for 1,1,1-TCA.

Shaw appreciates the opportunity to work with you on this project. Tables representing vacuum readings, vapor concentration readings, and calculated flow rates for each SVE well in operation and mass removal rates, mass removed in a period, and cumulative mass removed have been included with this report. The report also includes figures for system run-time, mass removal rates, cumulative mass removed, contaminant concentration, and flow volumes and cumulative flow volumes through each SVE well. For your convenience, a site layout map portraying the SVE well locations has also been attached. Please feel free to contact Mr. Gibson at 214.277.7815 or Mr. Kang at 214.277.7861 if you have any questions or concerns with the activities conducted and reported herein.

Sincerely,

**SHAW ENVIRONMENTAL, INC.**

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James E. Gibson, P.E.  
Project Manager

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Amandeep S. Kang, E.I.T.  
Graduate Engineer

*Enclosures:*

Tables  
System Sampling Lab Report  
Figures/Graphs

*Distribution:*

Addressee (original report and an electronic copy)  
Pantex File (one hard copy)

## **TABLES**

**Vapor Conc. Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE-S-005 L PID	SVE-I-006 L PID	SVE-S-007 L PID	SVE-S-008 L PID	SVE-S-009 L PID	SVE-S-010 L PID	SVE-I-011 L PID	SVE-S-012 L PID	SVE-I-013 L PID	SVE-S-014 L PID	SVE-S-015 L PID	SVE-I-016 L PID	SVE-S-017 L PID	SVE-S-018 L PID
Date	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
04/04/03 <sup>(3)</sup>														
04/10/03	196 <sup>(2)</sup>			2000 <sup>(2)</sup>	202	2000 <sup>(2)</sup>				31				
04/14/03	39			139	89	223								
04/17/03	37			90	63	144								
04/21/03				90	70	135								
04/24/03				169	131	268								
04/28/03				173	139	281								
05/01/03				74	57	139								
05/05/03				74	57	128								
05/12/03				73	58	100								
05/15/03				63	49	105					98			2000 <sup>(2)</sup>
05/19/03				109	62	142					112			27
05/22/03				112	62	136					110			27
05/27/03				112	63	133					111			27
05/29/03				110	63	392					113			28
06/02/03				75	51	102					82			18
06/05/03				75	51	108					82			17
06/09/03				73	51	109					84			19
06/12/03				65	45	90					80			15
06/16/03				66	46	92					80			29
06/19/03				66	42	99					73			36
06/25/03				71	46	89					80			39
06/30/03				76	42	89					84			38
07/03/03				76	42	89					40			35
07/07/03				62	54	97					69			20
07/10/03				57		74		13			45			10
07/15/03				59		75		13			46			11
07/17/03				54		75		14			46			11
07/21/03				54		75		14			48			11
07/24/03				54		75					48			11
07/31/03				50		85					46			11
08/04/03				52		79					48			11
08/07/03				52		75					48			12
08/11/03				52		79					47			12
08/14/03				52		79					48			12
08/18/03				52		78					45			12
08/21/03				56		78					44			12
08/25/03				56		78					44			12
08/28/03				56		78					44			11
09/02/03				57		78					44			11
09/04/03				56		79					44			11
09/08/03				50	21	77					37			
09/12/03				51	21	78					38			
09/15/03				52	21	78					42			
09/18/03				53	20	76					43			
10/22/03				43	37	64					63			
10/27/03				43	37	66					60			
10/30/03				32	25	28					39			
11/03/03				31	26	33					43			
11/06/03				33	26	35					74			
11/10/03				21	17	22					35			
11/12/03				18	16	19					40			
11/17/03				17	14	18					34			
11/20/03				18	15	16					31			
11/24/03				15		16					28			
11/26/03				11		12					20			
12/01/03				26		22					39			
12/04/03				12		14					27			
12/08/03						7					8			
12/11/03						15					23			
12/15/03						12					25			
12/18/03											50			
12/23/03											35			
01/08/04											35			
01/12/04											24			
01/15/04											25			

**Vapor Conc. Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

02/17/04		21					39		47		25	18		
02/26/04		44					253		115		14	26		
03/04/04		46					315		124		22	41		
03/11/04		52					234		143			57		
03/15/04		52					208		136			91		
03/18/04		45					198		123			46		
03/22/04		39					158		112			38		
03/25/04		32					153		106			42		
03/29/04		36					154		138			39		
04/05/04		38					156		134			47		
04/08/04		35					143		127			37		
04/12/04		71					115		169			111		
04/14/04		28					116		99			32		
04/19/04		38					107		111			39		
04/22/04		39					104		109			38		
04/29/04		68					221		229			75		
<b>Apr. 2004 Average</b>		<b>45</b>					<b>137</b>		<b>140</b>			<b>54</b>		
<b>Total Average</b>	<b>38</b>	<b>43</b>		<b>62</b>	<b>52</b>	<b>89</b>	<b>167</b>	<b>13</b>	<b>126</b>	<b>31</b>	<b>51</b>	<b>48</b>		<b>19</b>

Notes:

- 1) No data entry for a date implies that the SVE well manifold was closed
- 2) PID error. Reading not used for calculation of monthly and total averages.
- 3) System start-up. PID readings not collected.

**Vapor Conc. Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE-S-019 L PID	SVE-S-020 L PID	SVE-I-021 L PID	SVE-S-022 L PID	SVE-S-023 L PID	SVE-S-024 L PID	SVE-S-025 L PID	SVE-I-026 L PID	SVE-S-027 L PID	SVE-S-028 L PID	SVE-I-029 L PID	SVE-S-030 L PID	SVE-S-031 L PID	SVE-S-032 L PID
Date	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
04/04/03 <sup>(3)</sup>														
04/10/03	151	2000			138	283	63		40	426 <sup>(2)</sup>		2000 <sup>(2)</sup>		371
04/14/03	58	2000			177	359				92		636		693
04/17/03	36	2000			76	176				48		326		346
04/21/03	40	2000			123	225				68		305		326
04/24/03	42	2000			281	465				124		645		675
04/28/03	93	2000			284	466				120		642		681
05/01/03	26	2000			72	101				40		333		327
05/05/03	26	2000			72	164				40		330		325
05/12/03	28	2000			73	151				52		286		291
05/15/03	19	2000			38	62				22		289		244
05/19/03		2000		6		191						388		407
05/22/03		2000		7		194						391		405
05/27/03		2000		7		198						394		408
05/29/03		2000		7		196						392		406
06/02/03		2000		4		181						280		341
06/05/03		2000		5		184						274		334
06/09/03		2000		6		186						281		336
06/12/03		2000		6		166						242		274
06/16/03		2000		10		164						240		275
06/19/03		2000		8		156						253		281
06/25/03		2000				209						239		262
06/30/03		2000				212						242		260
07/03/03		2000				200						246		255
07/07/03		2000				157						236		275
07/10/03		2000				204						226		276
07/15/03		2000				207						220		279
07/17/03		2000				206						222		276
07/21/03		2000				204						230		281
07/24/03		2000				200	124					223		280
07/31/03		2000				201	120					225		283
08/04/03		2000				200	115					220		286
08/07/03		2000				201	118					214		280
08/11/03		2000				205	120					205		271
08/14/03		2000				207	122					209		268
08/18/03		2000				210	120					205		260
08/21/03		2000				210	125					200		258
08/25/03		2000				204	123					201		260
08/28/03		2000				200	124					203		264
09/02/03		2000				202	126					200		260
09/04/03		2000				201	120					199		264
09/08/03		2000				227	94					202		290
09/12/03		2000				225	95					200		291
09/15/03		2000				220	98					201		288
09/18/03		2000				221	98					204		288
10/22/03		2000				189	85					219		234
10/27/03		2000				192	86					214		230
10/30/03		2000				79	79					126		165
11/03/03		2000				155	93					109		130
11/06/03		2000				181	87					90		137
11/10/03		2000				127	65					62		92
11/12/03		2000				169	63					49		93
11/17/03		2000				129	56					47		94
11/20/03		2000				112	54					46		89
11/24/03		2000				168	56					35		89
11/26/03		2000				121	36					30		86
12/01/03		2000				85	61					42		95
12/04/03		2000				132	47					26		80
12/08/03		2000				276	37					17		91
12/11/03		2000				136	51					25		70
12/15/03		2000				99	41					23		88
12/18/03		1568				105	63					28		79
12/23/08		2000				167	44					24		74
01/08/04		2000				106	61					33		81
01/12/04		2000				87	42					21		69

**Vapor Conc. Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

01/15/04		2000				85	39					27		80
02/17/04		2000				107	36					25		87
02/26/04		2000				87	27					15		65
03/04/04		2000				87	35					23		125
03/11/04		2000	109			129		39			48			99
03/15/04		2000	108			100		31			53			57
03/18/04		2000	89			104		31			43			43
03/22/04		2000	42			117		31			103			
03/25/04		2000	48			117		19			30			
03/29/04		2000	47			109		19			32			
04/05/04		2000	61			137		22			33			
04/08/04		2000	60			110		19			30			
04/12/04		2000	98			173		179			128			
04/14/04		2000	57			95		15			20			
04/19/04		2000	53			116								
04/22/04		2000	58			108								
04/29/04		2000	66			222								47
<b>Apr. 2004 Average</b>		<b>2000</b>	<b>65</b>			<b>137</b>		<b>59</b>			<b>53</b>			<b>47</b>
<b>Total Average</b>	<b>52</b>	<b>1995</b>	<b>69</b>	<b>7</b>	<b>133</b>	<b>173</b>	<b>79</b>	<b>41</b>	<b>40</b>	<b>67</b>	<b>52</b>	<b>201</b>		<b>237</b>

Notes:

- 1) No data entry for a date implies that the SVE well manifold was closed
- 2) PID error. Reading not used for calculation of monthly and total averages.
- 3) System start-up. PID readings not collected.

**Vaccum Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE-S-005 L Vacuum	SVE-I-006 L Vacuum	SVE-S-007 L Vacuum	SVE-S-008 L Vacuum	SVE-S-009 L Vacuum	SVE-S-010 L Vacuum	SVE-I-011 L Vacuum	SVE-S-012 L Vacuum	SVE-I-013 L Vacuum	SVE-S-014 L Vacuum	SVE-S-015 L Vacuum	SVE-I-016 L Vacuum	SVE-S-017 L Vacuum	SVE-S-018 L Vacuum
Date	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O
04/04/03	69			69	70	69				66				
04/10/03	64			63	65	64				59				
04/14/03	59			77	78	76								
04/17/03	59			76	77	76								
04/21/03				56	59	84								
04/24/03				69	72	107								
04/28/03				68	72	107								
05/01/03				69	74	112								
05/05/03				69	74	110								
05/12/03				56	59	84								
05/15/03				76	78	75					75			80
05/19/03				76	77	76					72			78
05/22/03				76	77	76					73			78
05/27/03				76	77	76					73			78
05/29/03				76	77	76					73			78
06/02/03				64	65	64					61			66
06/05/03				64	65	64					61			66
06/09/03				64	65	64					61			66
06/12/03				63	64	62					60			65
06/16/03				63	64	62					60			32
06/19/03				73	74	73					69			75
06/25/03				93	94	93					91			97
06/30/03				92	94	93					90			97
07/03/03				93	94	92					90			97
07/07/03				82	83	81					79			85
07/10/03				63		63		64			61			66
07/15/03				63		63		64			62			65
07/17/03				63		63		64			62			65
07/21/03				63		63		64			62			65
07/24/03				63		63					62			65
07/31/03				64		63					61			65
08/04/03				64		63					61			65
08/07/03				64		63					61			65
08/11/03				64		63					61			65
08/14/03				64		63					61			65
08/18/03				64		62					61			65
08/21/03				63		62					61			65
08/25/03				63		62					61			65
08/28/03				63		63					61			65
09/02/03				63		63					61			66
09/04/03				63		63					61			65
09/08/03				63	63	62					60			
09/12/03				63	63	63					60			
09/15/03				63	63	63					60			
09/18/03				63	63	63					60			
10/22/03				38	42	42					41			
10/27/03				37	42	42					41			
10/30/03				42	42	42					41			
11/03/03				38	36	36					39			
11/06/03				41	38	38					41			
11/10/03				38	36	37					39			
11/12/03				32	32	29					27			
11/17/03				33	31	28					26			
11/20/03				33	31	28					26			
11/24/03				35		30					28			
11/26/03				36		31					28			
12/01/03				38		32					29			
12/04/03				37		32					29			
12/08/03						37					15			
12/11/03						36					15			
12/15/03						38					16			
12/18/03											18			
12/23/03											29			
01/08/04											64			
01/12/04											62			
01/15/04											24			
02/17/04		67					67		66		21	67		
02/23/04		71					71		69		26	71		
02/26/04		64					64		63		23	64		
03/04/04		63					64		63		24	64		
03/11/04		41					42		43			42		
03/15/04		41					41		40			41		
03/18/04		42					42		40			42		

**Vaccum Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

03/22/04		42					43		41			43	
03/25/04		44					45		44			45	
03/29/04		47					48		46			41	
04/05/04		47					47		46			40	
04/08/04		47					49		47			41	
04/12/04		48					51		49			42	
04/14/04		48					52		50			43	
04/19/04		62					67		65			54	
04/22/04		61					66		65			54	
04/29/04		65					68		67			37	
<b>Apr. 2004 Average</b>		<b>54</b>					<b>57</b>		<b>56</b>			<b>44</b>	
<b>Total Average</b>	<b>63</b>	<b>53</b>		<b>61</b>	<b>64</b>	<b>63</b>	<b>54</b>	<b>64</b>	<b>53</b>	<b>62</b>	<b>51</b>	<b>49</b>	<b>70</b>

Notes:

1) No data entry for a date implies that the SVE well manifold was closed

### Vaccum Readings At Each SVE Well (Lower Screen Level Only)

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE-S-019 L Vacuum	SVE-S-020 L Vacuum	SVE-I-021 L Vacuum	SVE-S-022 L Vacuum	SVE-S-023 L Vacuum	SVE-S-024 L Vacuum	SVE-S-025 L Vacuum	SVE-I-026 L Vacuum	SVE-S-027 L Vacuum	SVE-S-028 L Vacuum	SVE-I-029 L Vacuum	SVE-S-030 L Vacuum	SVE-S-031 L Vacuum	SVE-S-032 L Vacuum
Date	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O	in-H2O
04/04/03	66	70			68	69	67		67	68		69		68
04/10/03	60	64			63	62	61		62	62		63		63
04/14/03	78	79			68	78				78		77		76
04/17/03	77	79			65	77				77		76		75
04/21/03	84	85			58	85				58		84		84
04/24/03	107	109			70	109				71		107		107
04/28/03	106	109			70	109				71		107		107
05/01/03	110	114			70	112				73		111		111
05/05/03	111	113			70	111				73		111		111
05/12/03	85	86			58	85				58		83		84
05/15/03	75	77			52	76				51		75		75
05/19/03		76		70		74						75		75
05/22/03		76		70		74						75		75
05/27/03		76		70		74						75		75
05/29/03		76		70		75						75		75
06/02/03		64		60		64						64		63
06/05/03		64		60		63						64		63
06/09/03		64		60		64						64		63
06/12/03		62		58		62						62		62
06/16/03		62		15		62						62		63
06/19/03		73		56		72						72		71
06/25/03		96				94						92		92
06/30/03		96				94						92		92
07/03/03		96				94						92		92
07/07/03		83				82						81		80
07/10/03		65				64						63		62
07/15/03		65				64						63		63
07/17/03		65				64						63		62
07/21/03		65				64						63		62
07/24/03		70				64	65					63		62
07/31/03		65				64	65					63		62
08/04/03		65				64	65					62		62
08/07/03		65				64	65					62		62
08/11/03		65				63	65					62		62
08/14/03		65				64	65					62		63
08/18/03		65				63	66					62		63
08/21/03		64				64	66					62		63
08/25/03		64				64	65					62		63
08/28/03		65				64	65					62		63
09/02/03		65				64	65					62		63
09/04/03		65				64	66					63		62
09/08/03		63				63	62					62		62
09/12/03		64				63	62					62		62
09/15/03		64				62	62					62		62
09/18/03		63				62	62					62		62
10/22/03		42				42	41					42		41
10/27/03		42				41	42					42		41
10/30/03		42				42	42					41		42
11/03/03		41				41	41					41		40
11/06/03		43				43	42					42		42
11/10/03		41				41	41					40		40
11/12/03		47				47	46					47		47
11/17/03		45				44	44					44		43
11/20/03		45				44	44					44		44
11/24/03		48				47	44					47		47
11/26/03		48				48	45					48		48
12/01/03		50				49	46					50		50
12/04/03		49				49	47					49		49
12/08/03		59				58	55					58		59
12/11/03		59				59	55					58		58
12/15/03		60				60	56					59		59
12/18/03		73				72	68					73		72
12/23/03		69				68	64					68		68
01/08/04		66				66	50					66		66
01/12/04		66				65	49					65		65
01/15/04		71				70	52					70		70
02/17/04		65				65	40					65		65
02/23/04		72				71	43					61		72
02/26/04		66				66	39					56		65
03/04/04		66				66	39					38		62

**Vaccum Readings At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

03/11/04		48	40			35		41			40			41
03/15/04		46	39			35		39			39			43
03/18/04		47	39			35		40			40			32
03/22/04		48	40			35		38			38			
03/25/04		50	42			38		40			40			
03/29/04		52	45			48		48			43			
04/05/04		53	45			49		27			43			
04/08/04		54	46			49		29			38			
04/12/04		56	48			51		11			39			
04/14/04		57	49			51		14			40			
04/19/04		71	57			72								
04/22/04		71	57			70								
04/29/04		72	57			72								59
<b>Apr. 2004 Average</b>		<b>62</b>	<b>51</b>			<b>59</b>		<b>20</b>			<b>40</b>			<b>59</b>
<b>Total Average</b>	<b>87</b>	<b>66</b>	<b>41</b>	<b>59</b>	<b>65</b>	<b>64</b>	<b>54</b>	<b>41</b>	<b>64</b>	<b>67</b>	<b>40</b>	<b>65</b>		<b>65</b>

Notes:

1) No data entry for a date implies that the SVE well manifold was closed

### Air Flow Rates At Each SVE Well (Lower Screen Level Only)

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE-S-005 L Flow Rate	SVE-I-006 L Flow Rate	SVE-S-007 L Flow Rate	SVE-S-008 L Flow Rate	SVE-S-009 L Flow Rate	SVE-S-010 L Flow Rate	SVE-I-011 L Flow Rate	SVE-S-012 L Flow Rate	SVE-I-013 L Flow Rate	SVE-S-014 L Flow Rate	SVE-S-015 L Flow Rate	SVE-I-016 L Flow Rate	SVE-S-017 L Flow Rate	SVE-S-018 L Flow Rate
Date	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm
04/04/03	32			32	37	32				62				
04/10/03	32			37	37	37				74				
04/14/03	23			46	49	43								
04/17/03	15			43	49	40								
04/21/03				15	23	45								
04/24/03				29	32	54								
04/28/03				23	32	53								
05/01/03				32	40	60								
05/05/03				32	39	60								
05/12/03				15	23	45								
05/15/03				49	52	46					82			28
05/19/03				52	54	52					117			0
05/22/03				52	54	52					116			0
05/27/03				52	53	52					115			0
05/29/03				52	54	49					115			0
06/02/03				47	50	47					111			0
06/05/03				47	47	47					112			0
06/09/03				46	47	47					112			0
06/12/03				41	43	43					109			0
06/16/03				43	43	45					112			15
06/19/03				46	52	46					119			10
06/25/03				55	59	60					143			51
06/30/03				60	59	60					142			52
07/03/03				58	59	60					139			51
07/07/03				49	52	52					134			0
07/10/03				37		41		55			113			14
07/15/03				40		41		55			113			10
07/17/03				41		41		50			113			14
07/21/03				41		42		51			112			14
07/24/03				42		42					111			14
07/31/03				42		42					112			14
08/04/03				42		42					111			14
08/07/03				40		42					111			14
08/11/03				40		42					112			14
08/14/03				40		40					111			14
08/18/03				40		40					40			14
08/21/03				42		40					40			14
08/25/03				42		42					40			14
08/28/03				42		40					42			14
09/02/03				40		40					40			10
09/04/03				40		42					41			10
09/08/03				43	43	43					109			
09/12/03				43	43	42					108			
09/15/03				42	43	42					109			
09/18/03				42	43	43					108			
10/22/03				71	30	30					73			
10/27/03				68	28	30					73			
10/30/03				30	33	30					79			
11/03/03				24	24	15					79			
11/06/03				30	30	24					83			
11/10/03				24	15	15					79			
11/12/03				52	15	0					43			
11/17/03				15	15	0					43			
11/20/03				15	15	0					39			
11/24/03				24		15					43			
11/26/03				15		15					43			
12/01/03				0		0					43			
12/04/03				42		0					43			
12/08/03						0					31			
12/11/03						24					24			
12/15/03						24					15			
12/18/03											31			
12/23/03											43			
01/08/04											106			
01/12/04											106			
01/15/04											34			
02/17/04		0					82		199		34	224		
02/23/04		52					52		218		39	246		
02/26/04		52					52		182		31	249		
03/04/04		117					83		200		22	249		
03/11/04		54					54		121		31	162		
03/15/04		0					86		138			153		
03/18/04		54					54		108			138		
03/22/04		54					85		138			187		

**Air Flow Rates At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

03/25/04		54					54		138			174		
03/29/04		0					85		152			153		
04/05/04		85					85		161			163		
04/08/04		54					85		152			153		
04/12/04		54					84		173			175		
04/14/04		0					0		160			162		
04/19/04		53					52		192			195		
04/22/04		53					104		209			195		
04/29/04		0					82		209			139		
<b>Apr. 2004 Average</b>		<b>43</b>					<b>70</b>		<b>180</b>			<b>169</b>		
<b>Total Average</b>	<b>25</b>	<b>43</b>		<b>39</b>	<b>40</b>	<b>37</b>	<b>69</b>	<b>53</b>	<b>168</b>	<b>68</b>	<b>80</b>	<b>183</b>		<b>14</b>

Notes:

1) No data entry for a date implies that the SVE well manifold was closed

**Air Flow Rates At Each SVE Well (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

Date	SVE-S-019 L Flow Rate	SVE-S-020 L Flow Rate	SVE-I-021 L Flow Rate	SVE-S-022 L Flow Rate	SVE-S-023 L Flow Rate	SVE-S-024 L Flow Rate	SVE-S-025 L Flow Rate	SVE-I-026 L Flow Rate	SVE-S-027 L Flow Rate	SVE-S-028 L Flow Rate	SVE-I-029 L Flow Rate	SVE-S-030 L Flow Rate	SVE-S-031 L Flow Rate	SVE-S-032 L Flow Rate
Date	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm	scfm
04/04/03	50	37			32	50	32		32	32		37		41
04/10/03	50	32			29	47	41		37	37		41		43
04/14/03	63	42			23	57				42		49		54
04/17/03	63	40			14	57				43		49		54
04/21/03	67	49			15	60				29		53		60
04/24/03	78	60			14	71				32		63		70
04/28/03	79	61			14	70				32		65		71
05/01/03	84	62			23	75				32		68		73
05/05/03	83	66			23	80				32		69		73
05/12/03	64	45			15	61				23		52		60
05/15/03	67	46			23	61				29		54		60
05/19/03		52		147		60						54		59
05/22/03		54		147		60						49		59
05/27/03		53		147		60						49		59
05/29/03		53		147		60						49		59
06/02/03		43		135		55						50		53
06/05/03		43		134		53						50		53
06/09/03		43		134		52						50		53
06/12/03		41		133		50						47		50
06/16/03		40		106		52						50		50
06/19/03		46		117		54						49		54
06/25/03		59				70						64		68
06/30/03		58				70						64		67
07/03/03		58				70						66		67
07/07/03		52				63						59		63
07/10/03		41				53						43		50
07/15/03		40				53						41		50
07/17/03		40				51						43		50
07/21/03		40				51						42		50
07/24/03		39				51	41					42		47
07/31/03		40				47	42					41		47
08/04/03		40				47	40					40		47
08/07/03		40				46	40					40		47
08/11/03		40				47	40					42		46
08/14/03		40				46	40					42		47
08/18/03		35				46	40					40		46
08/21/03		32				47	40					38		47
08/25/03		34				46	40					40		46
08/28/03		34				47	40					40		46
09/02/03		32				47	40					40		46
09/04/03		32				46	40					38		49
09/08/03		43				53	50					47		50
09/12/03		43				51	50					50		50
09/15/03		43				51	51					49		50
09/18/03		42				50	51					46		50
10/22/03		24				33	33					30		33
10/27/03		24				35	33					30		33
10/30/03		30				38	38					33		33
11/03/03		30				38	38					33		38
11/06/03		45				45	45					42		42
11/10/03		30				33	38					33		33
11/12/03		30				42	38					33		38
11/17/03		30				38	38					38		38
11/20/03		30				38	38					38		38
11/24/03		33				42	33					38		42
11/26/03		33				42	33					38		38
12/01/03		33				42	30					38		38
12/04/03		33				42	30					38		42
12/08/03		41				50	37					47		44
12/11/03		41				50	37					51		47
12/15/03		37				37	29					47		44
12/18/03		43				54	41					49		57
12/23/03		43				53	43					47		50
01/08/04		43				50	30					43		38
01/12/04		37				47	30					43		47
01/15/04		43				50	29					46		50
02/17/04		41				50	15					43		47
02/23/04		43				54	30					37		53
02/26/04		41				50	15					29		43
03/04/04		41				50	24					24		41
03/11/04		33	121			24		121			121			30
03/15/04		23	121			0		121			121			24
03/18/04		30	121			24		121			121			15

### Air Flow Rates At Each SVE Well (Lower Screen Level Only)

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

03/22/04		30	138			24		109			122		
03/25/04		33	153			24		121			138		
03/29/04		33	137			30		85			121		
04/05/04		33	152			33		87			138		
04/08/04		29	161			33		87			122		
04/12/04		41	186			38		56			138		
04/14/04		33	161			33		0			108		
04/19/04		43	172			53							
04/22/04		46	171			55							
04/29/04		46	171			52							29
<b>Apr. 2004 Average</b>		<b>39</b>	<b>168</b>			<b>42</b>		<b>58</b>			<b>127</b>		<b>29</b>
<b>Total Average</b>	<b>68</b>	<b>40</b>	<b>151</b>	<b>135</b>	<b>20</b>	<b>48</b>	<b>37</b>	<b>91</b>	<b>35</b>	<b>33</b>	<b>125</b>	<b>45</b>	<b>48</b>

Notes:

1) No data entry for a date implies that the SVE well manifold was closed

**System Mass Removal Rates, Mass Removed in a Period, and Cumulative Mass Removed (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE Acetone MRR	SVE Acetone MRP	SVE Acetone MRC	SVE Toluene MRR	SVE Toluene MRP	SVE Toluene MRC	SVE TCE MRR	SVE TCE MRP	SVE TCE MRC	SVE 1,1,1-TCA MRR	SVE 1,1,1-TCA MRP	SVE 1,1,1-TCA MRC	Total Contaminant MRR	Total Contaminant MRP	Total Contaminant MRC
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
04/04/03	0.000	0.0	0	0.870	63.0	63	0.050	3.5	4	0.000	0.0	0	0.92	66.5	66
04/10/03	0.000	0.0	0	0.930	131.6	194	0.050	7.4	11	0.000	0.0	0	0.98	138.9	205
04/14/03	0.000	0.0	0	0.800	76.3	271	0.040	4.3	15	0.000	0.0	0	0.84	80.6	286
04/17/03	0.000	0.0	0	0.760	54.6	325	0.040	3.1	18	0.000	0.0	0	0.80	57.6	344
04/21/03	0.000	0.0	0	0.670	64.7	390	0.040	3.6	22	0.000	0.0	0	0.71	68.4	412
04/24/03	0.000	0.0	0	0.820	58.1	448	0.050	3.2	25	0.000	0.0	0	0.87	61.3	473
04/28/03	0.000	0.0	0	0.810	78.9	527	0.050	4.4	29	0.000	0.0	0	0.86	83.3	557
05/01/03	0.000	0.0	0	0.890	64.1	591	0.050	3.6	33	0.000	0.0	0	0.94	67.7	624
05/05/03	0.000	0.0	0	0.220	20.7	612	0.030	2.6	36	0.000	0.0	0	0.25	23.3	648
05/12/03	0.000	0.0	0	0.160	26.2	638	0.020	3.3	39	0.000	0.0	0	0.18	29.5	677
05/15/03	0.000	0.0	0	0.230	17.1	655	0.030	2.2	41	0.000	0.0	0	0.26	19.3	696
05/19/03	0.000	0.0	0	0.250	23.7	679	0.030	3.0	44	0.000	0.0	0	0.28	26.7	723
05/22/03	0.000	0.0	0	0.250	18.2	697	0.030	2.3	46	0.000	0.0	0	0.28	20.5	744
05/27/03	0.000	0.0	0	0.250	29.5	727	0.030	3.7	50	0.000	0.0	0	0.28	33.2	777
05/29/03	0.000	0.0	0	0.250	11.0	738	0.030	1.4	52	0.000	0.0	0	0.28	12.4	789
06/02/03	0.000	0.0	0	0.230	23.4	764	0.030	3.0	55	0.000	0.0	0	0.26	26.4	819
06/05/03	0.000	0.0	0	0.230	16.1	781	0.030	2.0	57	0.000	0.0	0	0.26	18.2	838
06/09/03	0.030	3.1	3	0.980	95.3	876	0.050	4.8	62	0.010	1.1	1	1.07	104.3	942
06/12/03	0.030	2.2	5	0.940	66.4	942	0.050	3.3	65	0.010	0.8	2	1.03	72.7	1014
06/16/03	0.030	2.9	8	0.930	87.2	1029	0.050	4.4	70	0.010	1.0	3	1.02	95.4	1110
06/19/03	0.030	1.7	10	1.000	50.5	1080	0.050	2.5	72	0.010	0.6	3	1.09	55.3	1165
06/25/03	0.030	1.7	12	1.050	52.1	1132	0.050	2.6	75	0.010	0.6	4	1.14	57.1	1222
06/30/03	0.030	1.1	13	1.060	33.8	1166	0.050	1.7	76	0.010	0.4	4	1.15	37.0	1259
07/03/03	0.030	2.3	15	1.050	70.7	1236	0.050	3.6	80	0.010	0.8	5	1.14	77.4	1337
07/07/03	0.030	2.9	18	0.880	88.2	1325	0.040	4.4	84	0.010	1.0	6	0.96	96.5	1433
07/10/03	0.020	1.8	20	0.750	54.6	1379	0.040	2.7	87	0.010	0.6	7	0.82	59.7	1493
07/15/03	0.020	2.6	22	0.740	80.2	1459	0.040	4.0	91	0.010	0.9	8	0.81	87.8	1581
07/17/03	0.020	1.1	23	0.740	34.4	1494	0.040	1.7	93	0.010	0.4	8	0.81	37.7	1618

**System Mass Removal Rates, Mass Removed in a Period, and Cumulative Mass Removed (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE Acetone MRR	SVE Acetone MRP	SVE Acetone MRC	SVE Toluene MRR	SVE Toluene MRP	SVE Toluene MRC	SVE TCE MRR	SVE TCE MRP	SVE TCE MRC	SVE I,1,1-TCA MRR	SVE I,1,1-TCA MRP	SVE I,1,1-TCA MRC	Total Contaminant MRR	Total Contaminant MRP	Total Contaminant MRC
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
07/21/03	0.020	2.2	26	0.740	68.4	1562	0.040	3.4	96	0.010	0.8	9	0.81	74.8	1693
07/24/03	0.040	2.8	28	0.240	16.5	1579	0.010	0.9	97	0.004	0.3	9	0.29	20.5	1714
07/31/03	0.040	0.9	29	0.240	5.5	1584	0.010	0.3	98	0.004	0.1	9	0.29	6.8	1720
08/04/03	0.040	3.9	33	0.240	23.1	1607	0.010	1.3	99	0.004	0.4	10	0.29	28.6	1749
08/07/03	0.040	3.0	36	0.240	17.7	1625	0.010	1.0	100	0.004	0.3	10	0.29	22.0	1771
08/11/03	0.040	3.8	40	0.240	22.8	1648	0.010	1.3	101	0.004	0.4	10	0.29	28.3	1799
08/14/03	0.040	2.7	43	0.240	15.9	1664	0.010	0.9	102	0.004	0.3	11	0.29	19.7	1819
08/18/03	0.000	0.0	43	0.020	1.7	1665	0.000	0.0	102	0.000	0.0	11	0.02	1.7	1821
08/21/03	0.000	0.0	43	0.020	1.3	1667	0.000	0.0	102	0.000	0.0	11	0.02	1.3	1822
08/25/03	0.000	0.0	43	0.020	1.7	1668	0.000	0.0	102	0.000	0.0	11	0.02	1.7	1824
08/28/03	0.000	0.0	43	0.020	1.3	1670	0.000	0.0	102	0.000	0.0	11	0.02	1.3	1825
09/02/03	0.000	0.0	43	0.350	41.7	1711	0.020	2.0	104	0.004	0.5	11	0.37	44.2	1869
09/04/03	0.000	0.0	43	0.350	14.0	1725	0.020	0.7	105	0.004	0.2	11	0.37	14.8	1884
09/08/03	0.000	0.0	43	0.500	33.0	1758	0.020	1.6	106	0.005	0.4	12	0.53	35.0	1919
09/12/03	0.000	0.0	43	0.500	47.9	1806	0.020	2.3	109	0.005	0.5	12	0.53	50.7	1970
09/15/03	0.000	0.0	43	0.500	30.8	1837	0.020	1.5	110	0.005	0.3	12	0.53	32.6	2002
09/18/03	0.000	0.0	43	0.500	36.2	1873	0.020	1.8	112	0.005	0.4	13	0.53	38.4	2041
10/22/03	0.000	0.0	43	0.810	6.8	1880	0.030	0.2	112	0.003	0.0	13	0.84	7.1	2048
10/27/03	0.000	0.0	43	0.810	93.7	1974	0.030	2.9	115	0.003	0.4	13	0.84	97.0	2145
10/30/03	0.000	0.0	43	0.780	58.8	2033	0.020	1.8	117	0.003	0.2	13	0.80	60.8	2205
11/03/03	0.000	0.0	43	0.270	26.3	2059	0.010	0.9	118	0.002	0.2	14	0.28	27.4	2233
11/06/03	0.000	0.0	43	0.330	23.4	2082	0.010	0.8	119	0.002	0.1	14	0.34	24.4	2257
11/10/03	0.000	0.0	43	0.260	25.0	2107	0.010	0.9	120	0.002	0.2	14	0.27	26.0	2283
11/12/03	0.000	0.0	43	0.250	11.9	2119	0.010	0.4	120	0.002	0.1	14	0.26	12.4	2296
11/17/03	0.000	0.0	43	0.220	24.8	2144	0.010	0.9	121	0.001	0.2	14	0.23	25.8	2321
11/20/03	0.000	0.0	43	0.210	14.8	2159	0.010	0.5	121	0.001	0.1	14	0.22	15.4	2337
11/24/03	0.000	0.0	43	0.230	22.2	2181	0.010	0.8	122	0.001	0.1	14	0.24	23.2	2360
11/26/03	0.000	0.0	43	0.220	10.5	2191	0.010	0.4	123	0.001	0.1	14	0.23	10.9	2371
12/01/03	0.000	0.0	43	0.090	10.9	2202	0.010	0.4	123	0.000	0.0	14	0.10	11.3	2382
12/04/03	0.000	0.0	43	0.110	7.8	2210	0.010	0.3	123	0.000	0.0	14	0.12	8.1	2390
12/08/03	0.000	0.0	43	0.100	9.7	2220	0.010	0.4	124	0.000	0.0	14	0.11	10.1	2400

**System Mass Removal Rates, Mass Removed in a Period, and Cumulative Mass Removed (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas  
04/01/2003 to 04/30/2004

	SVE Acetone MRR	SVE Acetone MRP	SVE Acetone MRC	SVE Toluene MRR	SVE Toluene MRP	SVE Toluene MRC	SVE TCE MRR	SVE TCE MRP	SVE TCE MRC	SVE 1,1,1-TCA MRR	SVE 1,1,1-TCA MRP	SVE 1,1,1-TCA MRC	Total Contaminant MRR	Total Contaminant MRP	Total Contaminant MRC
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
12/11/03	0.000	0.0	43	0.110	8.1	2228	0.010	0.3	124	0.000	0.0	14	0.12	8.4	2409
12/15/03	0.000	0.0	43	0.090	9.1	2237	0.010	0.4	124	0.000	0.0	14	0.10	9.5	2418
12/18/03	0.000	0.0	43	0.110	8.0	2245	0.010	0.3	125	0.000	0.0	14	0.12	8.3	2427
12/23/03	0.000	0.0	43	0.110	13.6	2259	0.010	0.5	125	0.000	0.0	14	0.12	14.1	2441
01/08/04	0.000	0.0	43	0.130	8.6	2267	0.005	0.3	125	0.000	0.0	14	0.13	9.0	2450
01/12/04	0.000	0.0	43	0.100	9.6	2277	0.005	0.5	126	0.000	0.0	14	0.10	10.1	2460
01/15/04	0.000	0.0	43	0.080	5.7	2283	0.004	0.3	126	0.000	0.0	14	0.08	6.0	2466
02/17/04	0.000	0.0	43	0.230	28.0	2310	0.011	1.3	128	0.000	0.0	14	0.24	29.3	2495
02/23/04	0.000	0.0	43	0.260	10.7	2321	0.012	0.5	128	0.000	0.0	14	0.27	11.3	2506
02/26/04	0.000	0.0	43	0.370	26.3	2348	0.020	1.5	129	0.000	0.0	14	0.39	27.7	2534
03/04/04	0.000	0.0	43	0.420	29.1	2377	0.023	1.6	131	0.000	0.0	14	0.44	30.7	2565
03/11/04	0.000	0.0	43	0.420	28.7	2405	0.023	1.6	133	0.000	0.0	14	0.44	30.3	2595
03/15/04	0.000	0.0	43	0.260	24.9	2430	0.013	1.2	134	0.003	0.3	15	0.28	26.4	2621
03/18/04	0.000	0.0	43	0.260	18.7	2449	0.013	0.9	135	0.003	0.2	15	0.28	19.9	2641
03/22/04	0.000	0.0	43	0.290	27.9	2477	0.015	1.4	136	0.004	0.3	15	0.31	29.6	2671
03/25/04	0.000	0.0	43	0.290	21.0	2498	0.015	1.1	137	0.004	0.3	16	0.31	22.3	2693
03/29/04	0.000	0.0	43	0.260	25.3	2523	0.013	1.3	139	0.003	0.3	16	0.28	26.9	2720
04/05/04	0.000	0.0	43	0.310	37.5	2561	0.015	1.9	140	0.004	0.5	16	0.33	39.8	2760
04/08/04	0.000	0.0	43	0.290	20.8	2581	0.014	1.0	141	0.004	0.3	17	0.31	22.1	2782
04/12/04	0.000	0.0	43	0.260	9.2	2591	0.016	0.6	142	0.004	0.2	17	0.28	9.9	2792
04/14/04	0.000	0.0	43	0.180	8.9	2600	0.011	0.5	143	0.003	0.2	17	0.19	9.6	2802
04/19/04	0.000	0.0	43	0.210	25.3	2625	0.013	1.5	144	0.004	0.4	17	0.23	27.2	2829
04/22/04	0.000	0.0	43	0.230	16.8	2642	0.014	1.0	145	0.004	0.3	18	0.25	18.1	2847
04/29/04	0.000	0.0	43	0.200	4.8	2646	0.012	0.3	145	0.003	0.1	18	0.22	5.1	2852
<b>Monthly Average</b>	<b>0.000</b>	<b>0.000</b>		<b>0.240</b>	<b>17.590</b>		<b>0.014</b>	<b>0.973</b>		<b>0.004</b>	<b>0.256</b>		<b>0.257</b>	<b>18.819</b>	
<b>Total Average</b>	<b>0.007</b>	<b>0.513</b>		<b>0.408</b>	<b>31.843</b>		<b>0.022</b>	<b>1.746</b>		<b>0.003</b>	<b>0.212</b>		<b>0.440</b>	<b>34.314</b>	

Additional Mass Removed (in August 2003):

Benzene           6       lbs  
Ethylbenzene     3       lbs  
Total Xylenes    35      lbs

Abbreviations:

MRR - Mass Removal Rate  
MRP - Mass Removed During The Period  
MRC - Cumulative Mass Removed  
TCE - Trichloroethylene  
TCA - Trichloroethane

**System Mass Removal Rates, Mass Removed in a Period, and Cumulative Mass Removed (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas  
04/01/2003 to 04/30/2004

	SVE Acetone MRR	SVE Acetone MRP	SVE Acetone MRC	SVE Toluene MRR	SVE Toluene MRP	SVE Toluene MRC	SVE TCE MRR	SVE TCE MRP	SVE TCE MRC	SVE 1,1,1-TCA MRR	SVE 1,1,1-TCA MRP	SVE 1,1,1-TCA MRC	Total Contaminant MRR	Total Contaminant MRP	Total Contaminant MRC
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
04/04/03	0.000	0.0	0	0.870	63.0	63	0.050	3.5	4	0.000	0.0	0	0.92	66.5	66
04/10/03	0.000	0.0	0	0.930	131.6	194	0.050	7.4	11	0.000	0.0	0	0.98	138.9	205
04/14/03	0.000	0.0	0	0.800	76.3	271	0.040	4.3	15	0.000	0.0	0	0.84	80.6	286
04/17/03	0.000	0.0	0	0.760	54.6	325	0.040	3.1	18	0.000	0.0	0	0.80	57.6	344
04/21/03	0.000	0.0	0	0.670	64.7	390	0.040	3.6	22	0.000	0.0	0	0.71	68.4	412
04/24/03	0.000	0.0	0	0.820	58.1	448	0.050	3.2	25	0.000	0.0	0	0.87	61.3	473
04/28/03	0.000	0.0	0	0.810	78.9	527	0.050	4.4	29	0.000	0.0	0	0.86	83.3	557
05/01/03	0.000	0.0	0	0.890	64.1	591	0.050	3.6	33	0.000	0.0	0	0.94	67.7	624
05/05/03	0.000	0.0	0	0.220	20.7	612	0.030	2.6	36	0.000	0.0	0	0.25	23.3	648
05/12/03	0.000	0.0	0	0.160	26.2	638	0.020	3.3	39	0.000	0.0	0	0.18	29.5	677
05/15/03	0.000	0.0	0	0.230	17.1	655	0.030	2.2	41	0.000	0.0	0	0.26	19.3	696
05/19/03	0.000	0.0	0	0.250	23.7	679	0.030	3.0	44	0.000	0.0	0	0.28	26.7	723
05/22/03	0.000	0.0	0	0.250	18.2	697	0.030	2.3	46	0.000	0.0	0	0.28	20.5	744
05/27/03	0.000	0.0	0	0.250	29.5	727	0.030	3.7	50	0.000	0.0	0	0.28	33.2	777
05/29/03	0.000	0.0	0	0.250	11.0	738	0.030	1.4	52	0.000	0.0	0	0.28	12.4	789
06/02/03	0.000	0.0	0	0.230	23.4	764	0.030	3.0	55	0.000	0.0	0	0.26	26.4	819
06/05/03	0.000	0.0	0	0.230	16.1	781	0.030	2.0	57	0.000	0.0	0	0.26	18.2	838
06/09/03	0.030	3.1	3	0.980	95.3	876	0.050	4.8	62	0.010	1.1	1	1.07	104.3	942
06/12/03	0.030	2.2	5	0.940	66.4	942	0.050	3.3	65	0.010	0.8	2	1.03	72.7	1014
06/16/03	0.030	2.9	8	0.930	87.2	1029	0.050	4.4	70	0.010	1.0	3	1.02	95.4	1110
06/19/03	0.030	1.7	10	1.000	50.5	1080	0.050	2.5	72	0.010	0.6	3	1.09	55.3	1165
06/25/03	0.030	1.7	12	1.050	52.1	1132	0.050	2.6	75	0.010	0.6	4	1.14	57.1	1222
06/30/03	0.030	1.1	13	1.060	33.8	1166	0.050	1.7	76	0.010	0.4	4	1.15	37.0	1259
07/03/03	0.030	2.3	15	1.050	70.7	1236	0.050	3.6	80	0.010	0.8	5	1.14	77.4	1337
07/07/03	0.030	2.9	18	0.880	88.2	1325	0.040	4.4	84	0.010	1.0	6	0.96	96.5	1433
07/10/03	0.020	1.8	20	0.750	54.6	1379	0.040	2.7	87	0.010	0.6	7	0.82	59.7	1493
07/15/03	0.020	2.6	22	0.740	80.2	1459	0.040	4.0	91	0.010	0.9	8	0.81	87.8	1581
07/17/03	0.020	1.1	23	0.740	34.4	1494	0.040	1.7	93	0.010	0.4	8	0.81	37.7	1618

**System Mass Removal Rates, Mass Removed in a Period, and Cumulative Mass Removed (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE Acetone MRR	SVE Acetone MRP	SVE Acetone MRC	SVE Toluene MRR	SVE Toluene MRP	SVE Toluene MRC	SVE TCE MRR	SVE TCE MRP	SVE TCE MRC	SVE I,1,1-TCA MRR	SVE I,1,1-TCA MRP	SVE I,1,1-TCA MRC	Total Contaminant MRR	Total Contaminant MRP	Total Contaminant MRC
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
07/21/03	0.020	2.2	26	0.740	68.4	1562	0.040	3.4	96	0.010	0.8	9	0.81	74.8	1693
07/24/03	0.040	2.8	28	0.240	16.5	1579	0.010	0.9	97	0.004	0.3	9	0.29	20.5	1714
07/31/03	0.040	0.9	29	0.240	5.5	1584	0.010	0.3	98	0.004	0.1	9	0.29	6.8	1720
08/04/03	0.040	3.9	33	0.240	23.1	1607	0.010	1.3	99	0.004	0.4	10	0.29	28.6	1749
08/07/03	0.040	3.0	36	0.240	17.7	1625	0.010	1.0	100	0.004	0.3	10	0.29	22.0	1771
08/11/03	0.040	3.8	40	0.240	22.8	1648	0.010	1.3	101	0.004	0.4	10	0.29	28.3	1799
08/14/03	0.040	2.7	43	0.240	15.9	1664	0.010	0.9	102	0.004	0.3	11	0.29	19.7	1819
08/18/03	0.000	0.0	43	0.020	1.7	1665	0.000	0.0	102	0.000	0.0	11	0.02	1.7	1821
08/21/03	0.000	0.0	43	0.020	1.3	1667	0.000	0.0	102	0.000	0.0	11	0.02	1.3	1822
08/25/03	0.000	0.0	43	0.020	1.7	1668	0.000	0.0	102	0.000	0.0	11	0.02	1.7	1824
08/28/03	0.000	0.0	43	0.020	1.3	1670	0.000	0.0	102	0.000	0.0	11	0.02	1.3	1825
09/02/03	0.000	0.0	43	0.350	41.7	1711	0.020	2.0	104	0.004	0.5	11	0.37	44.2	1869
09/04/03	0.000	0.0	43	0.350	14.0	1725	0.020	0.7	105	0.004	0.2	11	0.37	14.8	1884
09/08/03	0.000	0.0	43	0.500	33.0	1758	0.020	1.6	106	0.005	0.4	12	0.53	35.0	1919
09/12/03	0.000	0.0	43	0.500	47.9	1806	0.020	2.3	109	0.005	0.5	12	0.53	50.7	1970
09/15/03	0.000	0.0	43	0.500	30.8	1837	0.020	1.5	110	0.005	0.3	12	0.53	32.6	2002
09/18/03	0.000	0.0	43	0.500	36.2	1873	0.020	1.8	112	0.005	0.4	13	0.53	38.4	2041
10/22/03	0.000	0.0	43	0.810	6.8	1880	0.030	0.2	112	0.003	0.0	13	0.84	7.1	2048
10/27/03	0.000	0.0	43	0.810	93.7	1974	0.030	2.9	115	0.003	0.4	13	0.84	97.0	2145
10/30/03	0.000	0.0	43	0.780	58.8	2033	0.020	1.8	117	0.003	0.2	13	0.80	60.8	2205
11/03/03	0.000	0.0	43	0.270	26.3	2059	0.010	0.9	118	0.002	0.2	14	0.28	27.4	2233
11/06/03	0.000	0.0	43	0.330	23.4	2082	0.010	0.8	119	0.002	0.1	14	0.34	24.4	2257
11/10/03	0.000	0.0	43	0.260	25.0	2107	0.010	0.9	120	0.002	0.2	14	0.27	26.0	2283
11/12/03	0.000	0.0	43	0.250	11.9	2119	0.010	0.4	120	0.002	0.1	14	0.26	12.4	2296
11/17/03	0.000	0.0	43	0.220	24.8	2144	0.010	0.9	121	0.001	0.2	14	0.23	25.8	2321
11/20/03	0.000	0.0	43	0.210	14.8	2159	0.010	0.5	121	0.001	0.1	14	0.22	15.4	2337
11/24/03	0.000	0.0	43	0.230	22.2	2181	0.010	0.8	122	0.001	0.1	14	0.24	23.2	2360
11/26/03	0.000	0.0	43	0.220	10.5	2191	0.010	0.4	123	0.001	0.1	14	0.23	10.9	2371
12/01/03	0.000	0.0	43	0.090	10.9	2202	0.010	0.4	123	0.000	0.0	14	0.10	11.3	2382
12/04/03	0.000	0.0	43	0.110	7.8	2210	0.010	0.3	123	0.000	0.0	14	0.12	8.1	2390
12/08/03	0.000	0.0	43	0.100	9.7	2220	0.010	0.4	124	0.000	0.0	14	0.11	10.1	2400

**System Mass Removal Rates, Mass Removed in a Period, and Cumulative Mass Removed (Lower Screen Level Only)**

Pantex Burning Grounds, Amarillo, Texas  
04/01/2003 to 04/30/2004

	SVE Acetone MRR	SVE Acetone MRP	SVE Acetone MRC	SVE Toluene MRR	SVE Toluene MRP	SVE Toluene MRC	SVE TCE MRR	SVE TCE MRP	SVE TCE MRC	SVE 1,1,1-TCA MRR	SVE 1,1,1-TCA MRP	SVE 1,1,1-TCA MRC	Total Contaminant MRR	Total Contaminant MRP	Total Contaminant MRC
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
12/11/03	0.000	0.0	43	0.110	8.1	2228	0.010	0.3	124	0.000	0.0	14	0.12	8.4	2409
12/15/03	0.000	0.0	43	0.090	9.1	2237	0.010	0.4	124	0.000	0.0	14	0.10	9.5	2418
12/18/03	0.000	0.0	43	0.110	8.0	2245	0.010	0.3	125	0.000	0.0	14	0.12	8.3	2427
12/23/03	0.000	0.0	43	0.110	13.6	2259	0.010	0.5	125	0.000	0.0	14	0.12	14.1	2441
01/08/04	0.000	0.0	43	0.130	8.6	2267	0.005	0.3	125	0.000	0.0	14	0.13	9.0	2450
01/12/04	0.000	0.0	43	0.100	9.6	2277	0.005	0.5	126	0.000	0.0	14	0.10	10.1	2460
01/15/04	0.000	0.0	43	0.080	5.7	2283	0.004	0.3	126	0.000	0.0	14	0.08	6.0	2466
02/17/04	0.000	0.0	43	0.230	28.0	2310	0.011	1.3	128	0.000	0.0	14	0.24	29.3	2495
02/23/04	0.000	0.0	43	0.260	10.7	2321	0.012	0.5	128	0.000	0.0	14	0.27	11.3	2506
02/26/04	0.000	0.0	43	0.370	26.3	2348	0.020	1.5	129	0.000	0.0	14	0.39	27.7	2534
03/04/04	0.000	0.0	43	0.420	29.1	2377	0.023	1.6	131	0.000	0.0	14	0.44	30.7	2565
03/11/04	0.000	0.0	43	0.420	28.7	2405	0.023	1.6	133	0.000	0.0	14	0.44	30.3	2595
03/15/04	0.000	0.0	43	0.260	24.9	2430	0.013	1.2	134	0.003	0.3	15	0.28	26.4	2621
03/18/04	0.000	0.0	43	0.260	18.7	2449	0.013	0.9	135	0.003	0.2	15	0.28	19.9	2641
03/22/04	0.000	0.0	43	0.290	27.9	2477	0.015	1.4	136	0.004	0.3	15	0.31	29.6	2671
03/25/04	0.000	0.0	43	0.290	21.0	2498	0.015	1.1	137	0.004	0.3	16	0.31	22.3	2693
03/29/04	0.000	0.0	43	0.260	25.3	2523	0.013	1.3	139	0.003	0.3	16	0.28	26.9	2720
04/05/04	0.000	0.0	43	0.310	37.5	2561	0.015	1.9	140	0.004	0.5	16	0.33	39.8	2760
04/08/04	0.000	0.0	43	0.290	20.8	2581	0.014	1.0	141	0.004	0.3	17	0.31	22.1	2782
04/12/04	0.000	0.0	43	0.260	9.2	2591	0.016	0.6	142	0.004	0.2	17	0.28	9.9	2792
04/14/04	0.000	0.0	43	0.180	8.9	2600	0.011	0.5	143	0.003	0.2	17	0.19	9.6	2802
04/19/04	0.000	0.0	43	0.210	25.3	2625	0.013	1.5	144	0.004	0.4	17	0.23	27.2	2829
04/22/04	0.000	0.0	43	0.230	16.8	2642	0.014	1.0	145	0.004	0.3	18	0.25	18.1	2847
04/29/04	0.000	0.0	43	0.200	4.8	2646	0.012	0.3	145	0.003	0.1	18	0.22	5.1	2852
<b>Monthly Average</b>	<b>0.000</b>	<b>0.000</b>		<b>0.240</b>	<b>17.590</b>		<b>0.014</b>	<b>0.973</b>		<b>0.004</b>	<b>0.256</b>		<b>0.257</b>	<b>18.819</b>	
<b>Total Average</b>	<b>0.007</b>	<b>0.513</b>		<b>0.408</b>	<b>31.843</b>		<b>0.022</b>	<b>1.746</b>		<b>0.003</b>	<b>0.212</b>		<b>0.440</b>	<b>34.314</b>	

Additional Mass Removed (in August 2003):

Benzene           6       lbs  
Ethylbenzene     3       lbs  
Total Xylenes    35      lbs

Abbreviations:

MRR - Mass Removal Rate  
MRP - Mass Removed During The Period  
MRC - Cumulative Mass Removed  
TCE - Trichloroethylene  
TCA - Trichloroethane

**Mass Removal Rates, Mass Removed in a period and Cumulative Mass Removed for Individual Constituents (Total)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE Acetone MRR (Total)	SVE Acetone MRP (Total)	SVE Acetone MRC (Total)	SVE Toluene MRR (Total)	SVE Toluene MRP (Total)	SVE Toluene MRC (Total)	SVE TCE MRR (Total)	SVE TCE MRP (Total)	SVE TCE MRC (Total)	SVE 1,1,1- TCA MRR (Total)	SVE 1,1,1- TCA MRP (Total)	SVE 1,1,1- TCA MRC (Total)
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
04/04/03	0.00	0.0	71.3	0.96	69.5	5511.8	0.06	3.9	378.6	0.000	0.0	16.5
04/10/03	0.00	0.0	71.3	1.07	151.7	5663.5	0.06	8.5	387.1	0.000	0.0	16.5
04/14/03	0.00	0.0	71.3	1.09	103.7	5767.2	0.06	5.8	392.9	0.000	0.0	16.5
04/17/03	0.00	0.0	71.3	0.90	64.8	5832.0	0.05	3.6	396.5	0.000	0.0	16.5
04/21/03	0.00	0.0	71.3	0.95	92.1	5924.1	0.06	5.2	401.6	0.000	0.0	16.5
04/24/03	0.00	0.0	71.3	0.82	58.1	5982.2	0.05	3.2	404.9	0.000	0.0	16.5
04/28/03	0.00	0.0	71.3	0.81	78.9	6061.1	0.05	4.4	409.3	0.000	0.0	16.5
05/01/03	0.00	0.0	71.3	0.89	64.1	6125.3	0.05	3.6	412.9	0.000	0.0	16.5
05/05/03	0.00	0.0	71.3	0.22	20.7	6145.9	0.03	2.6	415.5	0.000	0.0	16.5
05/12/03	0.00	0.0	71.3	0.22	36.1	6182.0	0.03	4.6	420.1	0.000	0.0	16.5
05/15/03	0.00	0.0	71.3	0.34	24.9	6207.0	0.04	3.2	423.2	0.000	0.0	16.5
05/19/03	0.00	0.0	71.3	0.33	31.2	6238.2	0.04	4.0	427.2	0.000	0.0	16.5
05/22/03	0.00	0.0	71.3	0.33	24.0	6262.1	0.04	3.0	430.2	0.000	0.0	16.5
05/27/03	0.00	0.0	71.3	0.33	38.8	6301.0	0.04	4.9	435.2	0.000	0.0	16.5
05/29/03	0.00	0.0	71.3	0.33	14.7	6315.6	0.04	1.9	437.0	0.000	0.0	16.5
06/02/03	0.00	0.0	71.3	0.31	31.6	6346.3	0.04	4.0	440.9	0.000	0.0	16.5
06/05/03	0.00	0.0	71.3	0.31	21.8	6368.1	0.04	2.8	443.7	0.000	0.0	16.5
06/09/03	0.04	4.3	75.6	1.34	130.0	6498.1	0.07	6.5	450.2	0.014	1.5	18.0
06/12/03	0.03	2.4	77.9	1.03	73.0	6571.1	0.06	3.7	453.9	0.011	0.8	18.9
06/16/03	0.04	3.4	81.4	1.11	104.0	6675.1	0.06	5.2	459.1	0.012	1.2	20.1
06/19/03	0.03	1.9	83.2	1.14	57.4	6732.5	0.06	2.9	462.0	0.012	0.7	20.7
06/25/03	0.04	2.1	85.4	1.31	64.9	6797.4	0.06	3.3	465.3	0.013	0.8	21.5
06/30/03	0.04	1.4	86.7	1.32	42.0	6839.4	0.06	2.1	467.4	0.013	0.5	21.9
07/03/03	0.04	2.8	89.5	1.25	83.9	6923.3	0.06	4.2	471.6	0.012	1.0	22.9
07/07/03	0.04	3.8	93.3	1.16	116.8	7040.1	0.05	5.9	477.5	0.013	1.3	24.2
07/10/03	0.04	2.9	96.2	1.20	87.4	7127.5	0.06	4.4	481.9	0.015	1.0	25.3
07/15/03	0.04	4.3	100.4	1.20	129.7	7257.2	0.06	6.5	488.4	0.015	1.5	26.7
07/17/03	0.04	1.8	102.3	1.20	55.7	7312.8	0.06	2.8	491.2	0.015	0.6	27.4
07/21/03	0.04	3.6	105.9	1.20	110.5	7423.4	0.06	5.6	496.7	0.015	1.3	28.6
07/24/03	0.07	4.5	110.4	0.39	27.0	7450.4	0.02	1.5	498.3	0.006	0.4	29.1
07/31/03	0.07	1.5	111.9	0.39	9.0	7459.4	0.02	0.5	498.8	0.006	0.2	29.2
08/04/03	0.07	6.4	118.3	0.39	38.0	7497.4	0.02	2.1	500.9	0.006	0.6	29.8
08/07/03	0.07	4.9	123.2	0.39	29.3	7526.7	0.02	1.6	502.5	0.006	0.5	30.3
08/11/03	0.07	6.3	129.5	0.39	37.6	7564.3	0.02	2.1	504.6	0.006	0.6	30.9
08/14/03	0.07	4.4	133.9	0.40	26.5	7590.8	0.02	1.5	506.1	0.007	0.4	31.3
08/18/03	0.00	0.0	133.9	0.03	3.0	7593.8	0.00	0.0	506.1	0.000	0.0	31.3
08/21/03	0.00	0.0	133.9	0.03	2.3	7596.0	0.00	0.0	506.1	0.000	0.0	31.3
08/25/03	0.00	0.0	133.9	0.03	3.0	7599.0	0.00	0.0	506.1	0.000	0.0	31.3
08/28/03	0.00	0.0	133.9	0.03	2.4	7601.3	0.00	0.0	506.1	0.000	0.0	31.3
09/02/03	0.00	0.0	133.9	0.64	75.9	7677.2	0.03	3.7	509.8	0.007	0.8	32.1
09/04/03	0.00	0.0	133.9	0.63	25.1	7702.3	0.03	1.2	511.0	0.007	0.3	32.4
09/08/03	0.00	0.0	133.9	0.78	51.4	7753.7	0.03	2.5	513.6	0.008	0.6	33.0
09/12/03	0.00	0.0	133.9	0.78	74.2	7827.9	0.03	3.6	517.2	0.008	0.8	33.8
09/15/03	0.00	0.0	133.9	0.77	47.6	7875.5	0.03	2.3	519.5	0.008	0.5	34.3
09/18/03	0.00	0.0	133.9	0.78	56.6	7932.1	0.03	2.8	522.3	0.008	0.6	34.9
10/22/03	0.00	0.0	133.9	1.75	14.7	7946.8	0.06	0.5	522.7	0.007	0.1	34.9
10/27/03	0.00	0.0	133.9	1.74	201.3	8148.1	0.06	6.3	529.0	0.007	0.8	35.8
10/30/03	0.00	0.0	133.9	1.92	144.3	8292.4	0.06	4.5	533.4	0.008	0.6	36.3
11/03/03	0.00	0.0	133.9	0.70	67.7	8360.1	0.03	2.4	535.9	0.004	0.4	36.8
11/06/03	0.00	0.0	133.9	0.86	61.1	8421.2	0.03	2.2	538.1	0.005	0.4	37.1
11/10/03	0.00	0.0	133.9	0.56	53.8	8474.9	0.02	1.9	540.0	0.003	0.3	37.5
11/12/03	0.00	0.0	133.9	0.65	31.2	8506.1	0.02	1.1	541.1	0.004	0.2	37.7
11/17/03	0.00	0.0	133.9	0.73	82.6	8588.7	0.03	3.0	544.0	0.004	0.5	38.2
11/20/03	0.00	0.0	133.9	0.69	48.3	8637.1	0.03	1.7	545.8	0.004	0.3	38.5
11/24/03	0.00	0.0	133.9	0.88	84.6	8721.7	0.03	3.0	549.0	0.005	0.5	39.0
11/26/03	0.00	0.0	133.9	0.71	33.8	8755.5	0.03	1.2	550.0	0.004	0.2	39.2
12/01/03	0.00	0.0	133.9	0.30	36.1	8791.6	0.02	1.4	551.4	0.000	0.0	39.2
12/04/03	0.00	0.0	133.9	0.35	24.6	8816.2	0.02	0.9	552.3	0.000	0.0	39.2
12/08/03	0.00	0.0	133.9	0.31	29.7	8845.9	0.02	1.1	553.4	0.000	0.0	39.2
12/11/03	0.00	0.0	133.9	0.44	31.7	8877.5	0.02	1.2	554.6	0.000	0.0	39.2
12/15/03	0.00	0.0	133.9	0.33	32.5	8910.1	0.02	1.2	555.9	0.000	0.0	39.2
12/18/03	0.00	0.0	133.9	0.32	23.2	8933.3	0.02	0.9	556.8	0.000	0.0	39.2
12/23/03	0.00	0.0	133.9	0.34	41.3	8974.6	0.02	1.6	558.3	0.000	0.0	39.2
01/08/04	0.00	0.0	133.9	0.34	22.8	8997.4	0.01	0.9	559.2	0.000	0.0	39.2
01/12/04	0.00	0.0	133.9	0.27	25.8	9023.2	0.01	1.2	560.4	0.000	0.0	39.2
01/15/04	0.00	0.0	133.9	0.24	17.1	9040.3	0.01	0.8	561.2	0.000	0.0	39.2
02/17/04	0.00	0.0	133.9	0.23	28.0	9068.2	0.01	1.3	562.6	0.000	0.0	39.2
02/23/04	0.00	0.0	133.9	0.26	10.7	9079.0	0.01	0.5	563.1	0.000	0.0	39.2
02/26/04	0.00	0.0	133.9	0.37	26.3	9105.2	0.02	1.5	564.5	0.000	0.0	39.2
03/04/04	0.00	0.0	133.9	0.42	29.1	9134.3	0.02	1.6	566.1	0.000	0.0	39.2
03/11/04	0.00	0.0	133.9	0.42	28.7	9163.1	0.02	1.6	567.7	0.000	0.0	39.2
03/15/04	0.00	0.0	133.9	0.26	24.9	9188.0	0.01	1.2	568.9	0.003	0.3	39.5
03/18/04	0.00	0.0	133.9	0.26	18.7	9206.7	0.01	0.9	569.9	0.003	0.2	39.7
03/22/04	0.00	0.0	133.9	0.29	27.9	9234.6	0.01	1.4	571.3	0.004	0.3	40.1
03/25/04	0.00	0.0	133.9	0.29	21.0	9255.6	0.01	1.1	572.3	0.004	0.3	40.3
03/29/04	0.00	0.0	133.9	0.26	25.3	9280.9	0.01	1.3	573.6	0.003	0.3	40.6

**Mass Removal Rates, Mass Removed in a period and Cumulative Mass Removed for Individual Constituents (Total)**

Pantex Burning Grounds, Amarillo, Texas

04/01/2003 to 04/30/2004

	SVE Acetone MRR (Total)	SVE Acetone MRP (Total)	SVE Acetone MRC (Total)	SVE Toluene MRR (Total)	SVE Toluene MRP (Total)	SVE Toluene MRC (Total)	SVE TCE MRR (Total)	SVE TCE MRP (Total)	SVE TCE MRC (Total)	SVE 1,1,1- TCA MRR (Total)	SVE 1,1,1- TCA MRP (Total)	SVE 1,1,1- TCA MRC (Total)
Date	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb
04/05/04	0.00	0.0	133.9	0.31	37.5	9318.4	0.02	1.9	575.4	0.004	0.5	41.1
04/08/04	0.00	0.0	133.9	0.29	20.8	9339.2	0.01	1.0	576.5	0.004	0.3	41.3
04/12/04	0.00	0.0	133.9	0.26	9.2	9348.4	0.02	0.6	577.0	0.004	0.2	41.5
04/14/04	0.00	0.0	133.9	0.18	8.9	9357.3	0.01	0.5	577.6	0.003	0.2	41.6
04/19/04	0.00	0.0	133.9	0.21	25.3	9382.5	0.01	1.5	579.1	0.004	0.4	42.1
04/22/04	0.00	0.0	133.9	0.23	16.8	9399.3	0.01	1.0	580.1	0.004	0.3	42.3
04/29/04	0.00	0.0	133.9	0.20	4.8	9404.1	0.01	0.3	580.4	0.003	0.1	42.4
<b>Monthly Average</b>	<b>0.00</b>			<b>0.24</b>			<b>0.01</b>			<b>0.00</b>		
<b>Monthly Total</b>		<b>0.0</b>			<b>123.1</b>			<b>6.8</b>			<b>1.8</b>	

Abbreviations:

MRR - Mass Removal Rate

MRP - Mass Removed During The Period

MRC - Cumulative Mass Removed

TCE - Trichloroethylene

TCA - Trichloroethane

**System Mass Removal Rates, Cumulative Mass Removed and Cost per Mass Removed(Total)**

Pantex Burning Grounds, Amarillo, Texas  
03/01/2002 to 04/30/2004

Date	Total Contaminant MRR (Upper)	Total Contaminant MRP (Upper)	Total Contaminant MRC (Upper)	Total Contaminant MRR (Lower)	Total Contaminant MRP (Lower)	Total Contaminant MRC (Lower)	Total Contaminant MRR (Total)	Total Contaminant MRP (Total)	Total Contaminant MRC (Total)
lb/hr	lb	lb	lb/hr	lb	lb	lb/hr	lb	lb	lb
04/04/03	0.1	6.9	5912	0.9	66.5	66	1.02	73.4	5978
04/10/03	0.2	21.3	5933	1.0	138.9	205	1.13	160.2	6138
04/14/03	0.3	28.9	5962	0.8	80.6	286	1.15	109.5	6248
04/17/03	0.2	10.8	5973	0.8	57.6	344	0.95	68.5	6316
04/21/03	0.3	28.9	6002	0.7	68.4	412	1.01	97.2	6414
04/24/03	0.0	0.0	6002	0.9	61.3	473	0.87	61.3	6475
04/28/03	0.0	0.0	6002	0.9	83.3	557	0.86	83.3	6558
05/01/03	0.0	0.0	6002	0.9	67.7	624	0.94	67.7	6626
05/05/03	0.0	0.0	6002	0.3	23.3	648	0.25	23.3	6649
05/12/03	0.1	11.2	6013	0.2	29.5	677	0.25	40.7	6690
05/15/03	0.1	8.8	6022	0.3	19.3	696	0.38	28.1	6718
05/19/03	0.1	8.4	6030	0.3	26.7	723	0.37	35.2	6753
05/22/03	0.1	6.5	6037	0.3	20.5	744	0.37	27.0	6780
05/27/03	0.1	10.6	6047	0.3	33.2	777	0.37	43.8	6824
05/29/03	0.1	4.1	6051	0.3	12.4	789	0.37	16.5	6840
06/02/03	0.1	9.2	6056	0.3	26.4	819	0.35	35.6	6875
06/05/03	0.1	6.4	6062	0.3	18.2	838	0.35	24.6	6900
06/09/03	0.4	38.0	6100	1.1	104.3	942	1.46	142.3	7042
06/12/03	0.1	7.2	6107	1.0	72.7	1014	1.13	79.9	7122
06/16/03	0.2	18.5	6126	1.0	95.4	1110	1.22	113.9	7236
06/19/03	0.1	7.5	6133	1.1	55.3	1165	1.24	62.9	7298
06/25/03	0.3	14.0	6147	1.1	57.1	1222	1.42	71.0	7369
06/30/03	0.3	9.0	6156	1.2	37.0	1259	1.43	46.0	7415
07/03/03	0.2	14.5	6171	1.1	77.4	1307	1.35	91.3	7507
07/07/03	0.3	31.3	6202	1.0	96.5	1435	1.27	127.8	7635
07/10/03	0.5	35.9	6238	0.8	59.7	1493	1.31	95.7	7731
07/15/03	0.5	54.2	6292	0.8	87.8	1581	1.31	142.0	7873
07/17/03	0.5	23.2	6315	0.8	37.7	1618	1.31	60.9	7934
07/21/03	0.5	46.1	6361	0.8	74.8	1693	1.31	120.9	8055
07/24/03	0.2	13.0	6374	0.3	20.5	1714	0.48	33.5	8088
07/31/03	0.2	4.3	6379	0.3	6.8	1720	0.48	11.1	8099
08/04/03	0.2	18.5	6397	0.3	28.6	1749	0.48	47.1	8146
08/07/03	0.2	14.3	6412	0.3	22.0	1771	0.48	36.3	8183
08/11/03	0.2	18.3	6430	0.3	28.3	1799	0.48	46.6	8229
08/14/03	0.2	13.2	6443	0.3	19.7	1819	0.49	32.8	8262
08/18/03	0.0	1.3	6444	0.0	1.7	1821	0.03	3.0	8265
08/21/03	0.0	1.0	6445	0.0	1.3	1822	0.03	2.3	8267
08/25/03	0.0	1.3	6447	0.0	1.7	1824	0.03	3.0	8270
08/28/03	0.0	1.0	6448	0.0	1.3	1825	0.03	2.4	8317
09/02/03	0.3	36.2	6484	0.4	44.2	1869	0.68	80.4	8397
09/04/03	0.3	11.8	6496	0.4	14.8	1884	0.67	26.6	8424
09/08/03	0.3	19.5	6515	0.5	35.0	1919	0.82	54.4	8478
09/12/03	0.3	27.9	6543	0.5	50.7	1970	0.82	78.6	8557
09/15/03	0.3	17.7	6561	0.5	32.6	2002	0.82	50.4	8607
09/18/03	0.3	21.6	6582	0.5	38.4	2041	0.82	60.0	8667
10/22/03	1.0	8.2	6591	0.8	7.1	2048	1.81	15.2	8682
10/27/03	1.0	111.3	6702	0.8	97.0	2145	1.80	208.3	8891
10/30/03	1.2	88.6	6791	0.8	60.8	2205	1.99	149.4	9040
11/03/03	0.4	43.2	6834	0.3	27.4	2233	0.73	70.6	9111
11/06/03	0.6	39.3	6873	0.3	24.4	2257	0.89	63.6	9174
11/10/03	0.3	30.0	6903	0.3	26.0	2283	0.58	56.0	9230
11/12/03	0.4	20.1	6923	0.3	12.4	2296	0.68	32.5	9263
11/17/03	0.5	60.2	6983	0.2	25.8	2321	0.76	86.1	9349
11/20/03	0.5	34.9	7018	0.2	15.4	2337	0.73	50.4	9399
11/24/03	0.7	65.0	7083	0.2	23.2	2360	0.91	88.2	9488
11/26/03	0.5	24.3	7108	0.2	10.9	2371	0.74	35.2	9523
12/01/03	0.2	26.2	7134	0.1	11.3	2382	0.32	37.5	9560
12/04/03	0.2	17.4	7151	0.1	8.1	2390	0.36	25.5	9586
12/08/03	0.2	20.7	7172	0.1	10.1	2400	0.33	30.8	9616
12/11/03	0.3	24.5	7196	0.1	8.4	2409	0.46	32.9	9649
12/15/03	0.3	24.3	7221	0.1	9.5	2418	0.35	33.8	9683
12/18/03	0.2	15.8	7237	0.1	8.3	2427	0.34	24.1	9707
12/23/03	0.2	28.8	7265	0.1	14.1	2441	0.36	42.9	9750
01/08/04	0.2	14.7	7280	0.1	9.0	2450	0.35	23.7	9774
01/12/04	0.2	16.9	7297	0.1	10.1	2460	0.28	27.0	9801
01/15/04	0.2	11.9	7309	0.1	6.0	2466	0.25	17.9	9819
02/17/04	0.0	0.0	7309	0.2	29.3	2495	0.24	29.3	9848
02/23/04	0.0	0.0	7309	0.3	11.3	2506	0.27	11.3	9859
02/26/04	0.0	0.0	7309	0.4	27.7	2534	0.39	27.7	9887
03/04/04	0.0	0.0	7309	0.4	30.7	2565	0.44	30.7	9918
03/11/04	0.0	0.0	7309	0.4	30.3	2595	0.44	30.3	9948
03/15/04	0.0	0.0	7309	0.3	26.4	2621	0.28	26.4	9974
03/18/04	0.0	0.0	7309	0.3	19.9	2641	0.28	19.9	9994
03/22/04	0.0	0.0	7309	0.3	23.6	2671	0.31	23.6	10024
03/25/04	0.0	0.0	7309	0.3	22.3	2693	0.31	22.3	10046
03/29/04	0.0	0.0	7309	0.3	26.9	2720	0.28	26.9	10073
04/05/04	0.0	0.0	7309	0.3	39.8	2780	0.33	39.8	10113
04/08/04	0.0	0.0	7309	0.3	22.1	2782	0.31	22.1	10135
04/12/04	0.0	0.0	7309	0.3	9.9	2792	0.28	9.9	10145
04/14/04	0.0	0.0	7309	0.2	9.6	2802	0.19	9.6	10154
04/19/04	0.0	0.0	7309	0.2	27.2	2829	0.23	27.2	10182
04/22/04	0.0	0.0	7309	0.2	18.1	2847	0.25	18.1	10200
04/29/04	0.0	0.0	7309	0.2	5.1	2852	0.22	5.1	10205
<b>Monthly Average</b>	<b>0.0</b>			<b>0.3</b>			<b>0.3</b>		
<b>Monthly Total</b>		<b>0</b>			<b>132</b>			<b>132</b>	

Total contaminant mass removed during April 2004 = 132 lbs.  
Monthly operational cost = \$ 12,000  
Cost of removing a unit of contaminant mass = 12,000/132 = \$ 91/lb

Abbreviations:  
MRR - Mass Removal Rate  
MRP - Mass Removed During The Period  
MRC - Cumulative Mass Removed

# **SYSTEM SAMPLING LAB REPORT**



Shaw Environmental & Infv.  
8081 Royal Ridge Parkway  
Ste 250  
Irving, TX 75063-  
Jimmy Gibson

### Results for Project 244429

670605	Influent					Air/Gas Taken: 04/12/2004 1700	By: Client	Rec:04/14/2004	
Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS	
Acetone	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	67-64-1	
Acrolein	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	107-02-8	
Acrylonitrile	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	107-13-1	
Benzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	71-43-2	
Bromobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	108-86-1	
Bromochloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	74-97-5	
Bromodichloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-27-4	
Bromoform	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-25-2	
Bromomethane (Methyl Bromi	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	74-83-9	
tert-Butylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	98-06-6	
sec-Butylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	135-98-8	
n-Butylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	104-51-8	
tert-Butylmethylether (MTBE)	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	1634-04-4	
Carbon Tetrachloride	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	56-23-5	
Chlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	108-90-7	
Chloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-00-3	
2-Chloroethylvinyl ether	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	110-75-8	
Chloroform	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	67-66-3	
Chloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	74-87-3	
1,2-Dibromo-3-chloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	96-12-8	
2-Chlorotoluene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	95-49-8	
4-Chlorotoluene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	106-43-4	
Dibromochloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	124-48-1	
1,2-Dibromoethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	106-93-4	
Dibromomethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	74-95-3	
1,3-Dichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	541-73-1	
1,2-Dichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	95-50-1	
1,4-Dichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	106-46-7	
Dichlorodifluoromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-71-8	
1,1-Dichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-34-3	
1,2-Dichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	107-06-2	
trans-1,2-Dichloroethene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	156-60-5	
cis-1,2-Dichloroethene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	156-59-2	
1,1-Dichloroethylene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-35-4	
1,2-Dichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	78-87-5	
2,2-Dichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	594-20-7	

Service Center: North Texas Region, 1601 E. Lamar Blvd, # 116, Arlington, TX 76011 -- 817/261-6404

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### Results for Project 244429

<b>670605 Influent</b>					Air/Gas Taken: 04/12/2004 1700 By: Client		Rec:04/14/2004	
<i>Parameter</i>	<i>Result</i>	<i>Unit</i>	<i>Flag</i>	<i>RL</i>	<i>Method</i>	<i>Analyzed</i>	<i>By</i>	<i>CAS</i>
1,3-Dichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	142-28-9
cis-1,3-Dichloropropene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	10061-01-5
trans-1,3-Dichloropropene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	10061-02-6
1,1-Dichloropropene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	563-58-6
Ethylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	100-41-4
Hexachlorobutadiene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	87-68-3
Isopropylbenzene (Cumene)	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	98-82-8
p-Isopropyltoluene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	99-87-6
Methyl ethyl ketone(Butanone)	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	78-93-3
Methyl Isobutyl Ketone	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	108-10-1
Methylene Chloride	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-09-2
Naphthalene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	91-20-3
n-Propylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	103-65-1
Styrene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	79-34-5
1,1,1,2-Tetrachloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	630-20-6
Tetrachloroethylene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	127-18-4
Toluene	72.3	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	108-88-3
1,2,4-Trichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	120-82-1
1,2,3-Trichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	87-61-6
1,1,1-Trichloroethane	1.21	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	71-55-6
1,1,2-Trichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	79-00-5
Trichloroethylene	4.37	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	79-01-6
Trichlorofluoromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-69-4
1,2,3-Trichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	96-18-4
1,2,4-Trimethylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	95-63-6
1,3,5-Trimethylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	108-67-8
Vinyl Chloride	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	75-01-4
m- and p-Xylene	ND	ug/L		2.00	EPA Method 8260B	04/15/2004 1444	PCB	108-38-3
o-Xylene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1444	PCB	95-47-6

<b>670607 Effluent</b>					Air/Gas Taken: 04/12/2004 1445 By: Client		Rec:04/14/2004	
<i>Parameter</i>	<i>Result</i>	<i>Unit</i>	<i>Flag</i>	<i>RL</i>	<i>Method</i>	<i>Analyzed</i>	<i>By</i>	<i>CAS</i>
Acetone	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	67-64-1
Acrolein	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	107-02-8
Acrylonitrile	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	107-13-1
Benzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	71-43-2
Bromobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	108-86-1
Bromochloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	74-97-5
Bromodichloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-27-4

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### Results for Project 244429

670607 Effluent		Air/Gas Taken: 04/12/2004 1445 By: Client Rec:04/14/2004						
Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Bromoform	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-25-2
Bromomethane (Methyl Bromi	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	74-83-9
tert-Butylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	98-06-6
sec-Butylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	135-98-8
n-Butylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	104-51-8
tert-Butylmethylether (MTBE)	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	1634-04-4
Carbon Tetrachloride	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	56-23-5
Chlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	108-90-7
Chloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-00-3
2-Chloroethylvinyl ether	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	110-75-8
Chloroform	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	67-66-3
Chloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	74-87-3
1,2-Dibromo-3-chloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	96-12-8
2-Chlorotoluene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	95-49-8
4-Chlorotoluene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	106-43-4
Dibromochloromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	124-48-1
1,2-Dibromoethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	106-93-4
Dibromomethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	74-95-3
1,3-Dichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	541-73-1
1,2-Dichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	95-50-1
1,4-Dichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	106-46-7
Dichlorodifluoromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-71-8
1,1-Dichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-34-3
1,2-Dichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	107-06-2
trans-1,2-Dichloroethene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	156-60-5
cis-1,2-Dichloroethene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	156-59-2
1,1-Dichloroethylene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-35-4
1,2-Dichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	78-87-5
2,2-Dichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	594-20-7
1,3-Dichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	142-28-9
cis-1,3-Dichloropropene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	10061-01-5
trans-1,3-Dichloropropene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	10061-02-6
1,1-Dichloropropene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	563-58-6
Ethylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	100-41-4
Hexachlorobutadiene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	87-68-3
Isopropylbenzene (Cumene)	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	98-82-8
p-Isopropyltoluene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	99-87-6
Methyl ethyl ketone(Butanone)	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	78-93-3
Methyl Isobutyl Ketone	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	108-10-1
Methylene Chloride	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416	PCB	75-09-2

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### Results for Project 244429

670607 Effluent		Air/Gas Taken: 04/12/2004 1445 By: Client			Rec:04/14/2004			
Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Naphthalene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		91-20-3
n-Propylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		103-65-1
Styrene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		100-42-5
1,1,2,2-Tetrachloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		79-34-5
1,1,1,2-Tetrachloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		630-20-6
Tetrachloroethylene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		127-18-4
Toluene	8.50	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		108-88-3
1,2,4-Trichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		120-82-1
1,2,3-Trichlorobenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		87-61-6
1,1,1-Trichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		71-55-6
1,1,2-Trichloroethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		79-00-5
Trichloroethylene	1.04	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		79-01-6
Trichlorofluoromethane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		75-69-4
1,2,3-Trichloropropane	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		96-18-4
1,2,4-Trimethylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		95-63-6
1,3,5-Trimethylbenzene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		108-67-8
Vinyl Chloride	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		75-01-4
m- and p-Xylene	ND	ug/L		2.00	EPA Method 8260B	04/15/2004 1416 PCB		108-38-3
o-Xylene	ND	ug/L		1.00	EPA Method 8260B	04/15/2004 1416 PCB		95-47-6

### Sample Preparation Steps for Project 244429

670605 Influent		Air/Gas Taken: 04/12/2004 1700 By: Client			Rec:04/14/2004		
Parameter	Result	Unit	Method	Analyzed	By		
VOA GC/MS	Entered		EPA Method 8260B	04/15/2004 1444 PCB			

670607 Effluent		Air/Gas Taken: 04/12/2004 1445 By: Client			Rec:04/14/2004		
Parameter	Result	Unit	Method	Analyzed	By		
VOA GC/MS	Entered		EPA Method 8260B	04/15/2004 1416 PCB			

RL is our Reporting Limit, or MAL (Minimum Analytical Level/Minimum Quantitation Level). The MAL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this MAL before we report a value in the "Results" column of our report. Otherwise, we report ND (Not Detected above MAL), because the result is "<" (less than) the number in the MAL column.

Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: Texas Department

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**Corporate Laboratory**

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903/984-0551 FAX 903/984-5914  
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Report Date: 04/27/2004

prrtproj2

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Client: **SEI4**

Pantex, Amarillo, TX

of Health Lead Firm Certificate 2110076, EPA National Lead Laboratory Accreditation Program #637.01, Texas Department of Agriculture Soil Import Permit S-37592, Texas Department of Health Drinking Water Laboratory Certificate TX219, Oklahoma Department of Environmental Quality Drinking Water Certification Lab ID# D9913, EPA Lab Number TX00063, USEPA Approved Perchlorate Testing Lab, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification, Louisiana Department of Environmental Quality Laboratory Certification (NELAP, LELAP) #02008, Louisiana Department of Health and Hospitals Drinking Water (NELAP) # LA030020, Delaware Health and Social Services (ODW) Drinking Water Approved, US Department of Energy Approved, Entidad Mexicana de Acreditacion, A.C. (EMA) Agua Ag-014-003/03, Fuentes Fijas, Residuos y Ambiente Laroral FRA-013-005/03 .

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp.

Unless otherwise specified, these test results meet the requirements of NELAC.

Roy White, MS, Quality Manager



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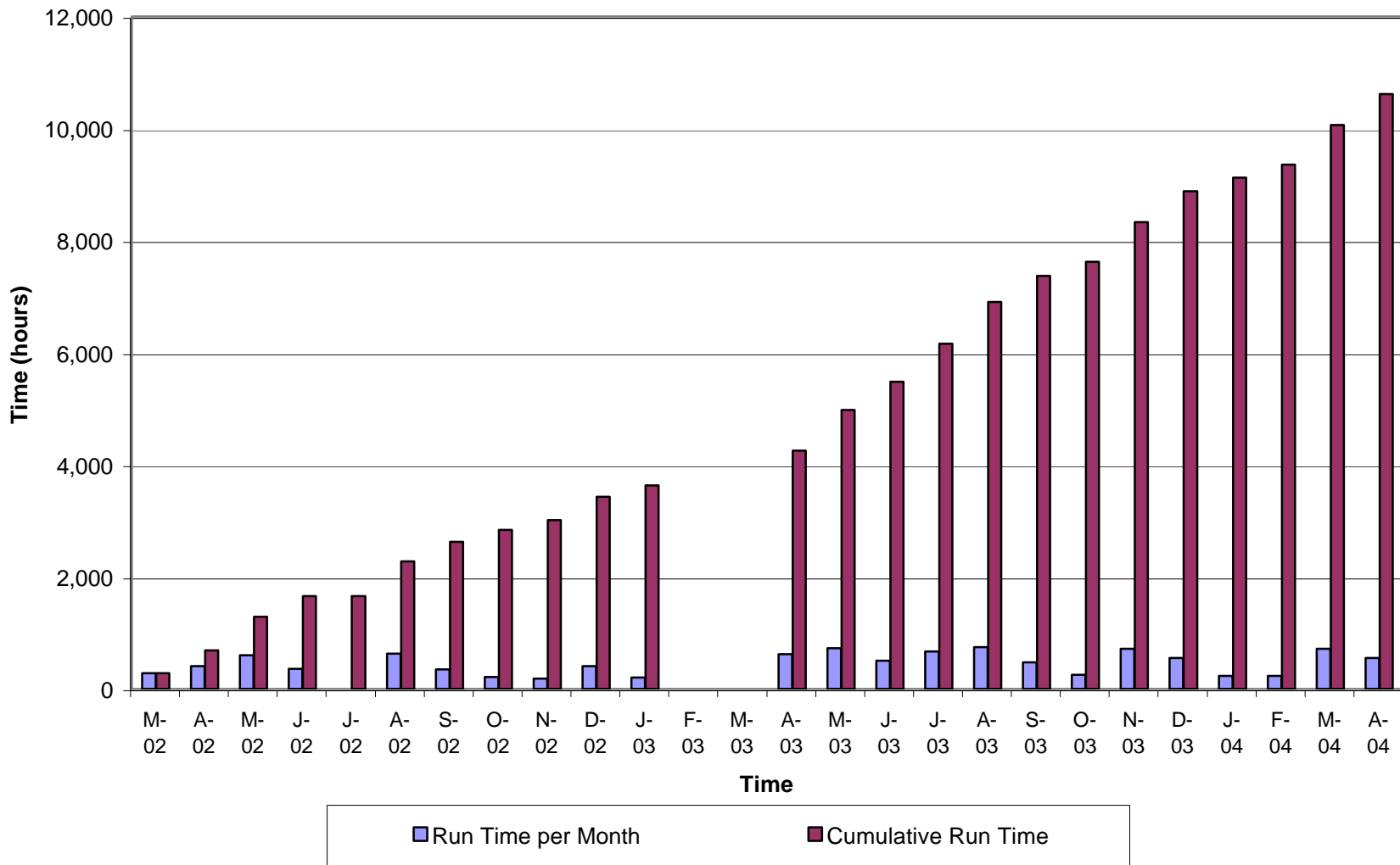
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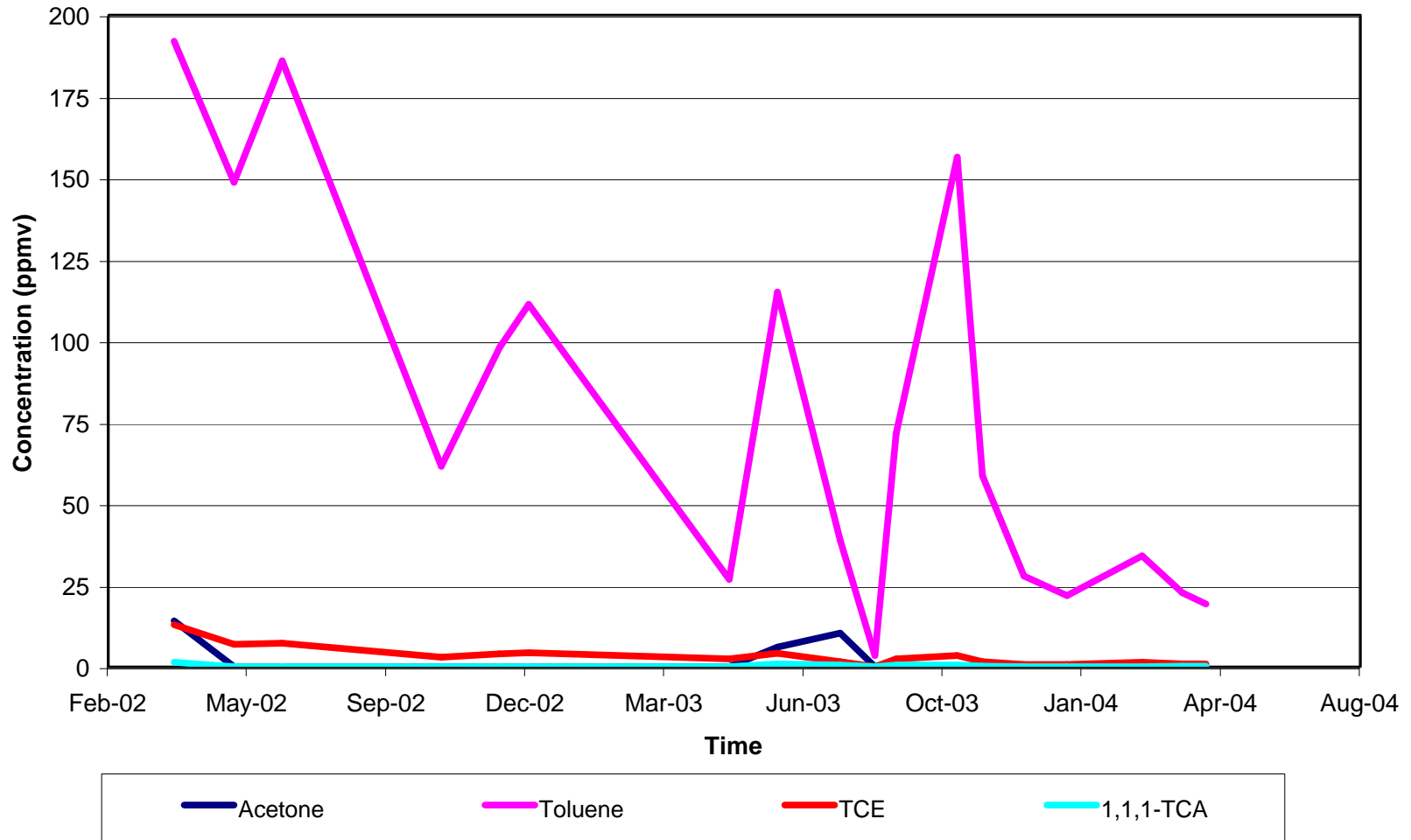


## **FIGURES/GRAPHS**

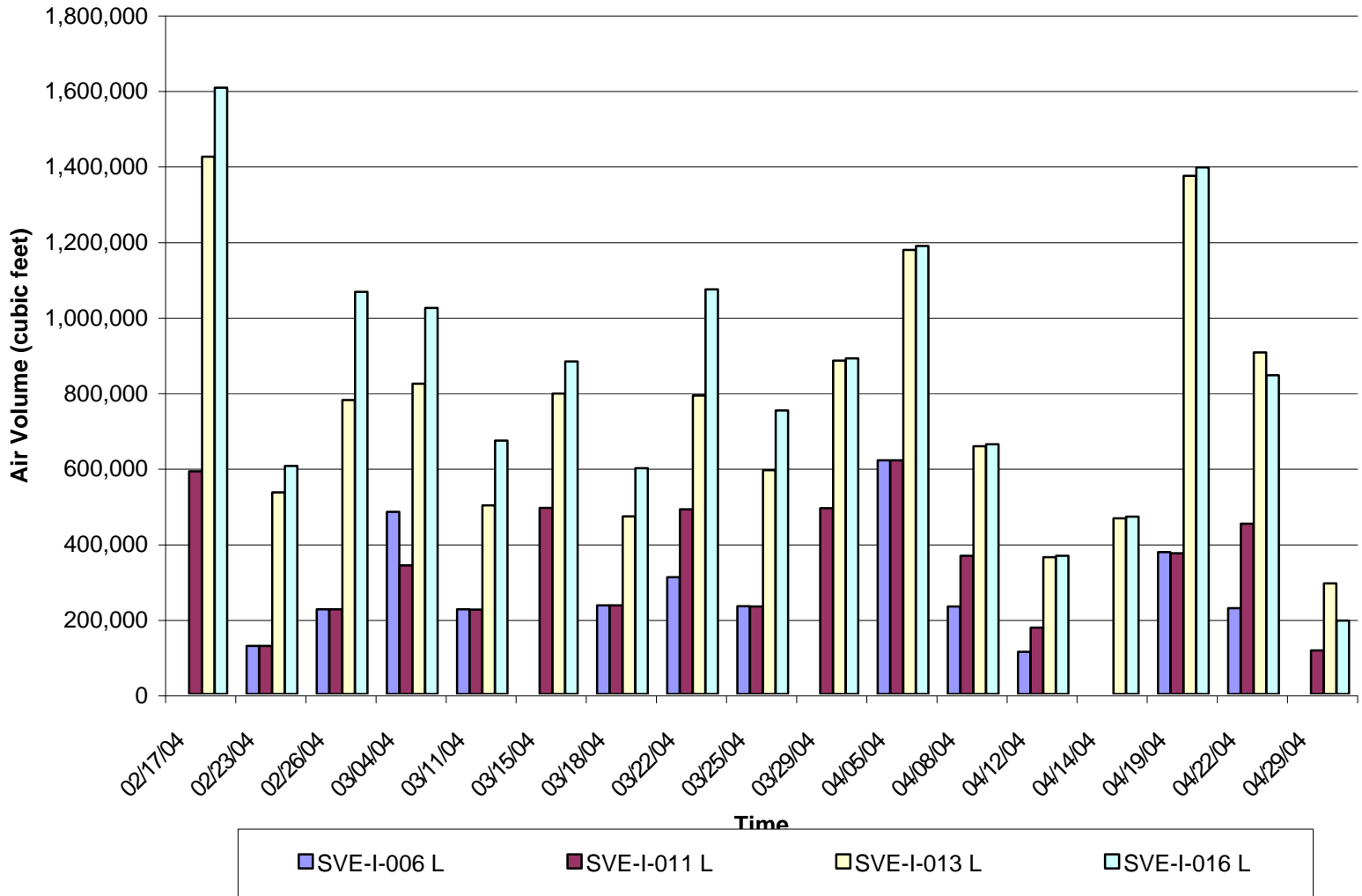
**SVE System Run Time**  
**Pantex Burning Grounds, Amarillo, Texas**  
**03/01/02 to 04/30/04**



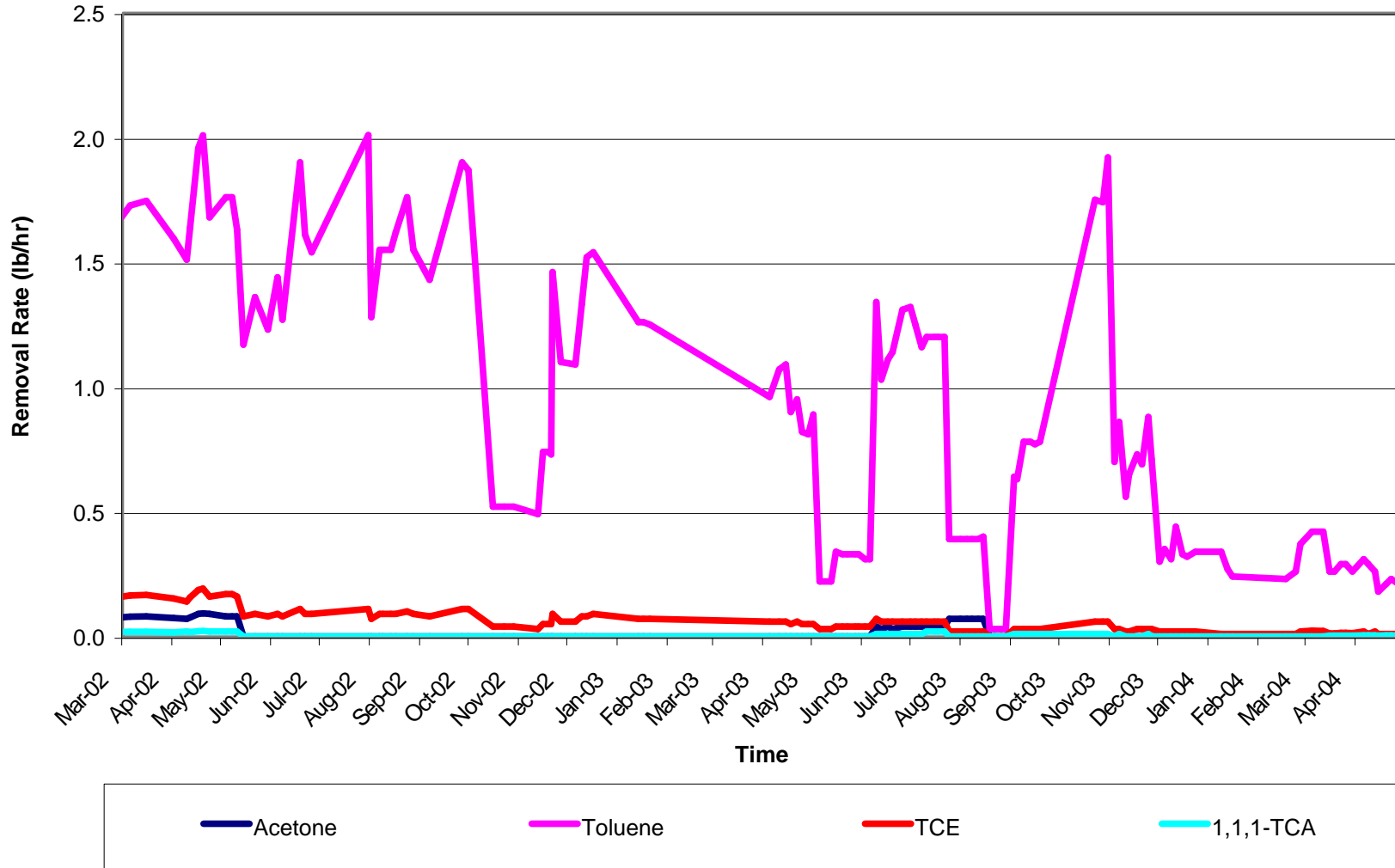
**Influent Contaminant Concentrations**  
**Pantex Burning Grounds, Amarillo, Texas**  
(April 2004 sample collected on the 12th)



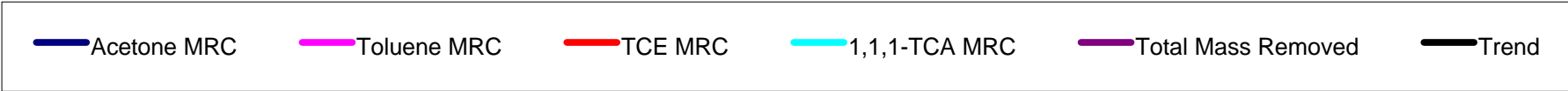
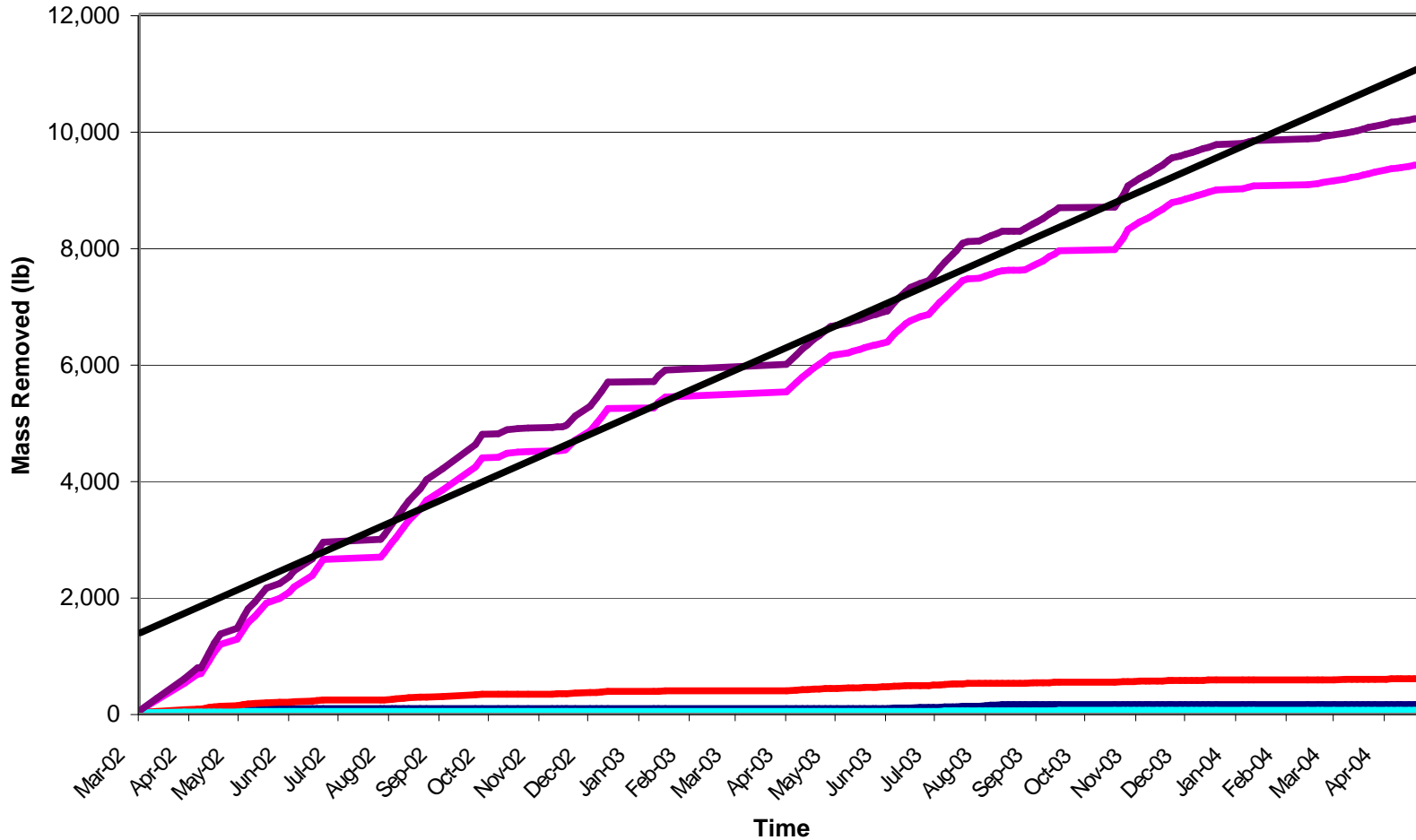
**Total Volume of Air Extracted from Intermediate Wells in a Period (Lower Screen Level)  
Pantex Burning Grounds, Amarillo, Texas  
Feb. 2004 to Apr. 2004**



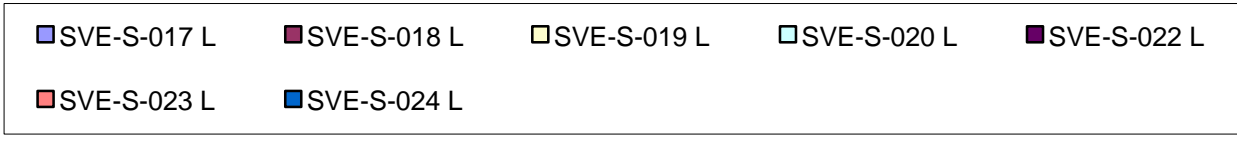
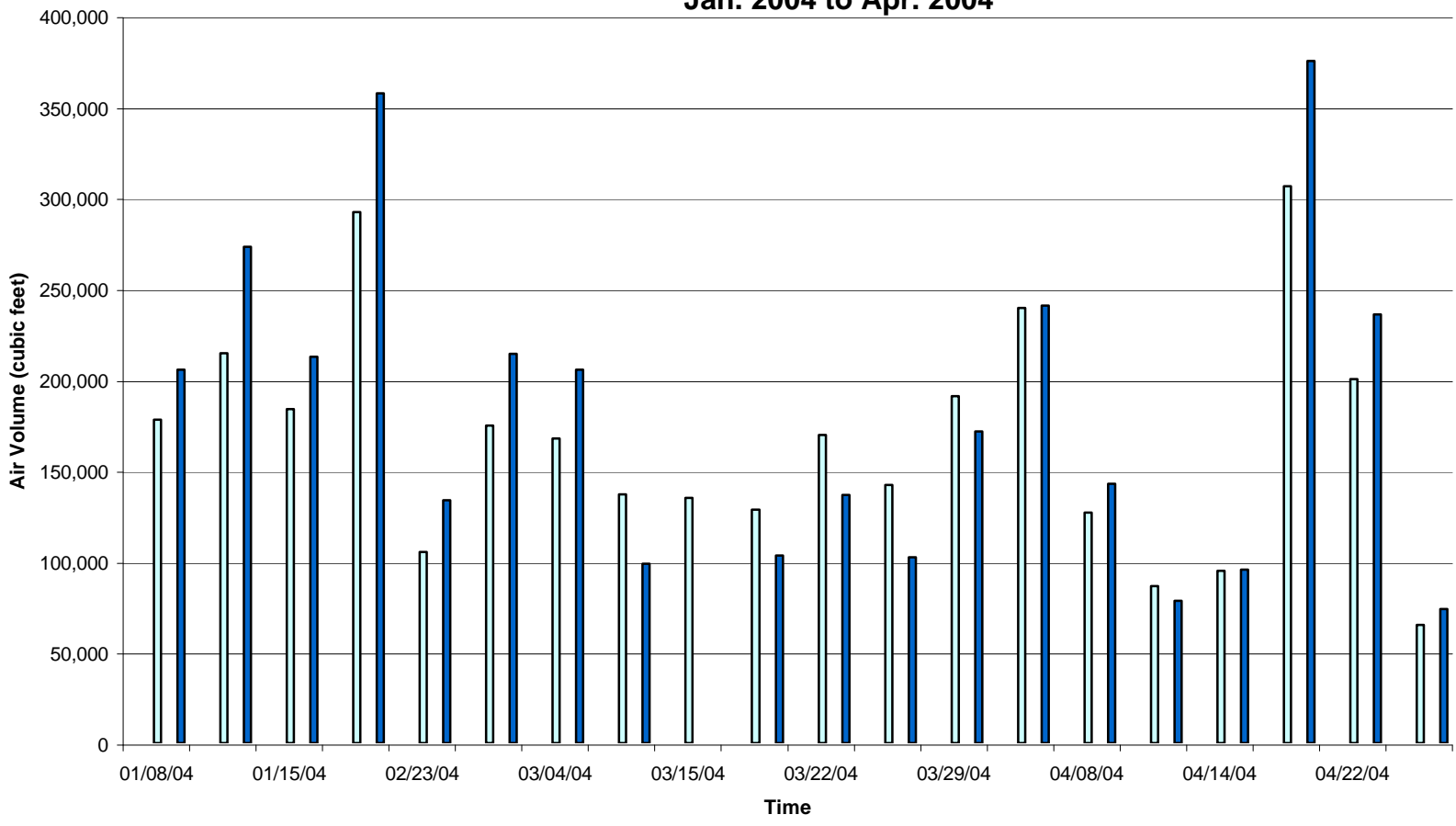
**Mass Removal Rates  
Pantex Burning Grounds, Amarillo, Texas  
03/01/2002 to 04/30/2004**



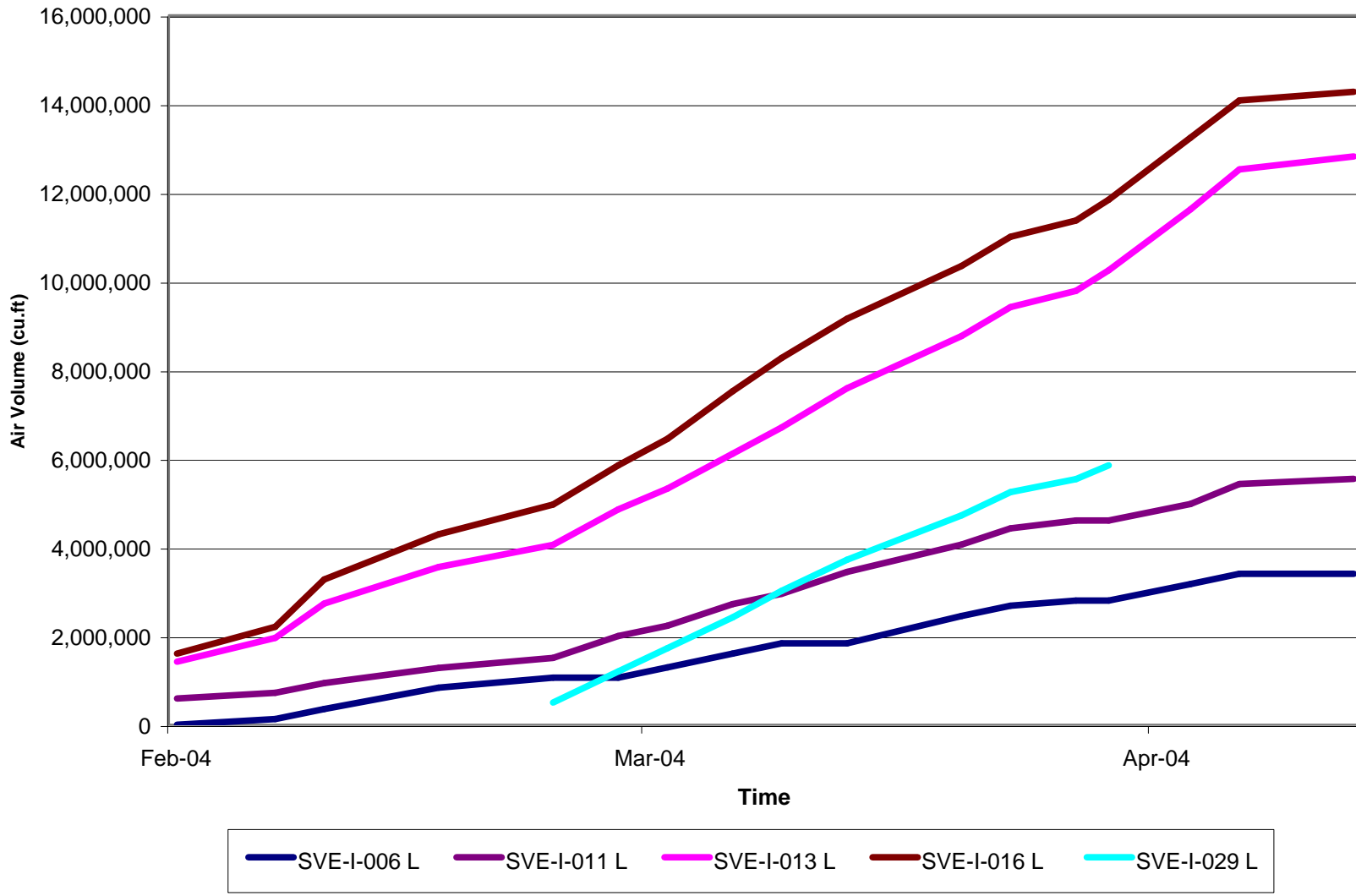
**Cumulative Mass Removed  
Pantex Burning Grounds, Amarillo, Texas  
03/01/2002 to 04/30/2004**



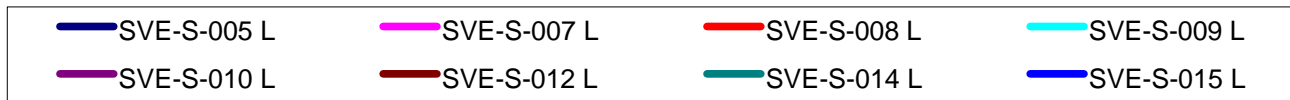
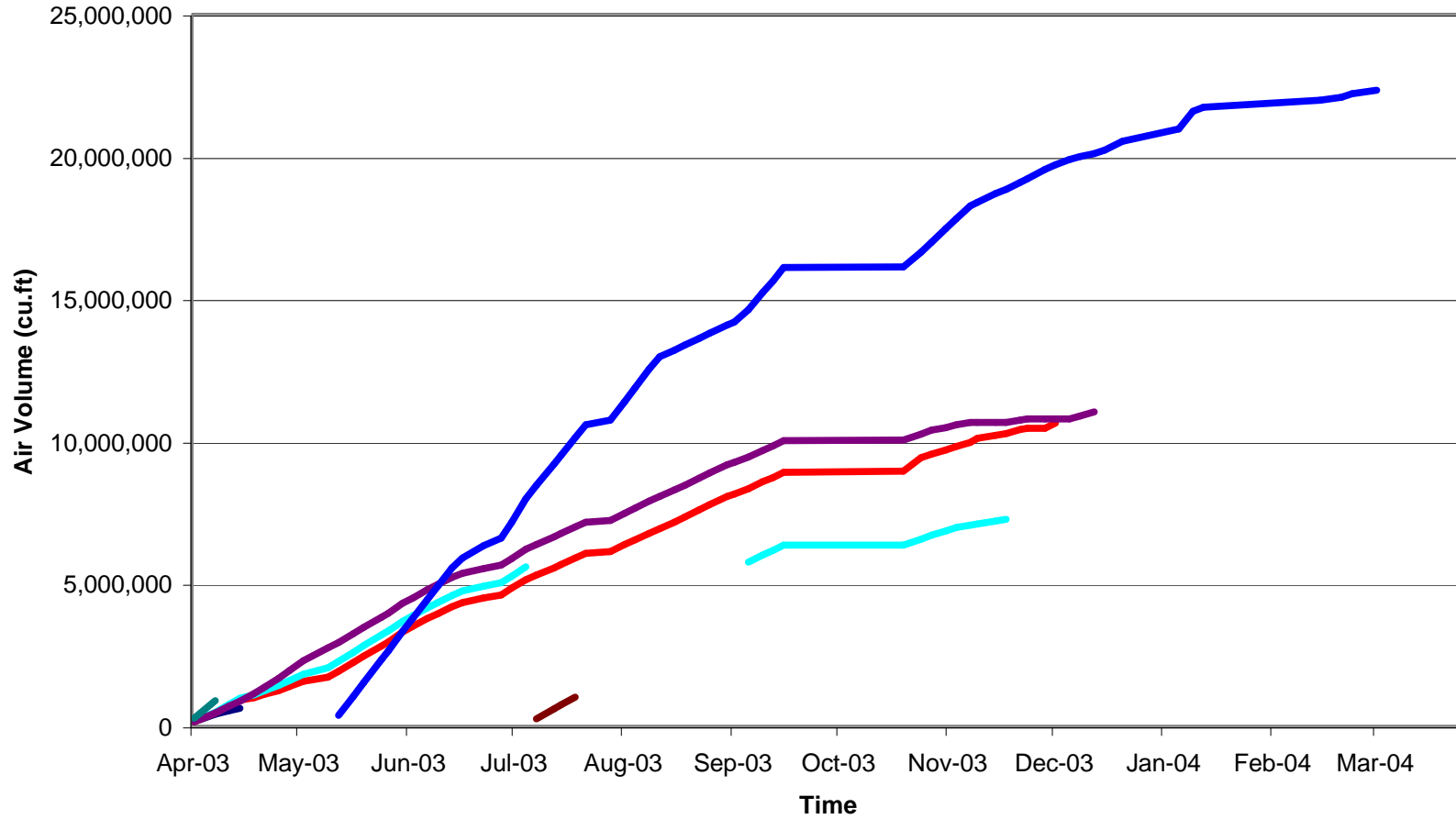
**Total Volume of Air Extracted from Shallow Wells in a Period (Lower Screen Level)  
Pantex Burning Grounds, Amarillo, Texas  
Jan. 2004 to Apr. 2004**



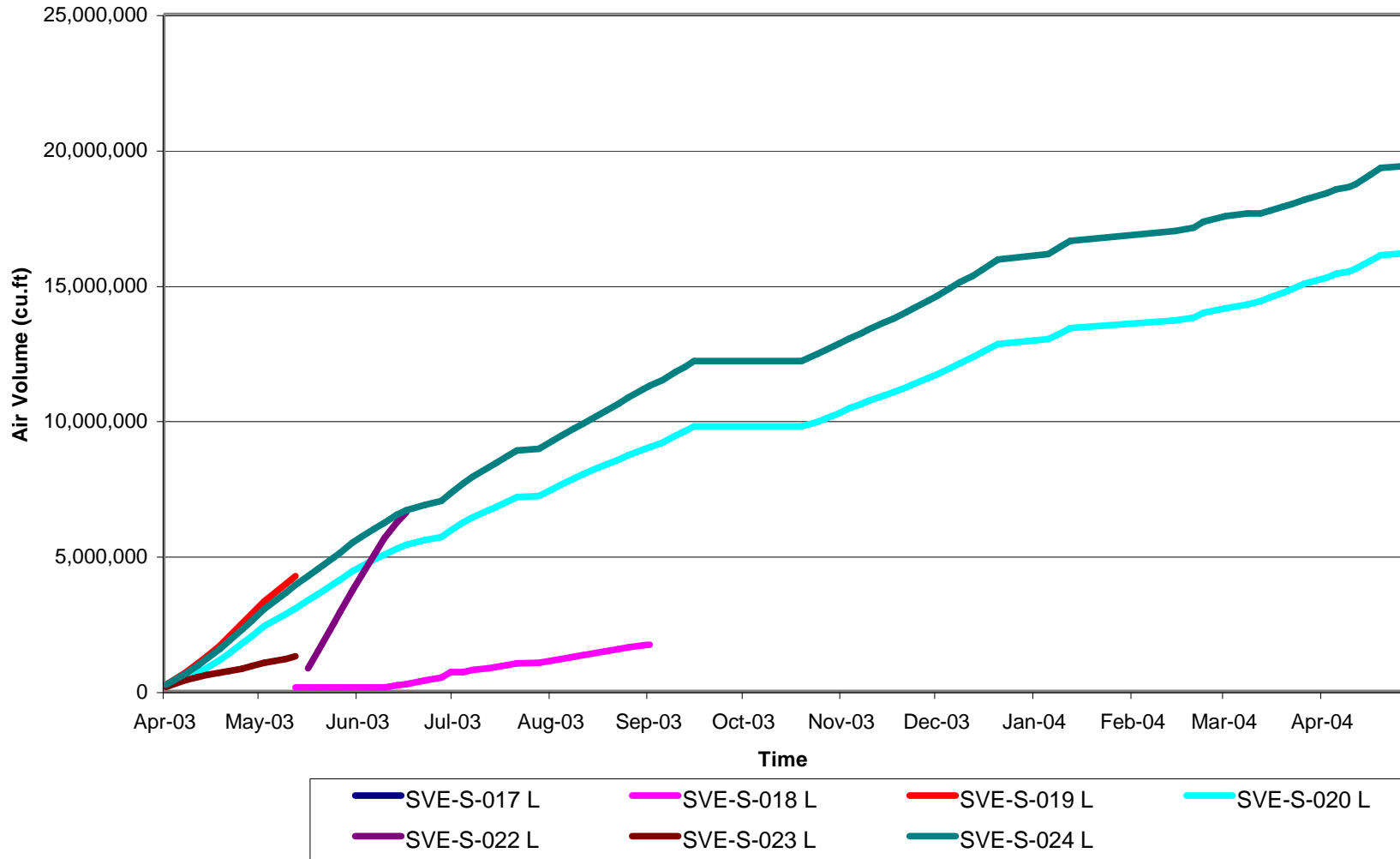
**Cumulative Volume of Air Extracted from Intermediate Wells (Upper Screen Level)  
Pantex Burning Grounds, Amarillo, Texas  
Feb. 2004 to Apr. 2004**



**Cumulative Volume of Air Extracted from Shallow Wells (Lower Screen Level)  
Pantex Burning Grounds, Amarillo, Texas  
Apr. 2003 to Mar. 2004**



**Cumulative Volume of Air Extracted from Shallow Wells (Lower Screen Level)  
Pantex Burning Grounds, Amarillo, Texas  
Apr. 2003 to Apr. 2004**



**Cumulative Volume of Air Extracted from Shallow Wells (Lower Screen Level)  
Pantex Burning Grounds, Amarillo, Texas  
Apr. 2003 to Apr. 2004**

