APPENDIX A
ANALYTICAL DATA SUMMARY

POTENTIAL BACKGROUND CONSTITUENT LEVELS IN STORM WATER AT BOEING'S SANTA SUSANA FIELD LABORATORY VENTURA COUNTY, CALIFORNIA

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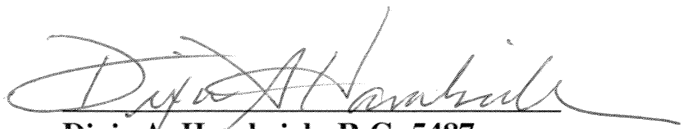

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Program Director

APPENDIX A
Electronic Copy of Soil Background Laboratory Information and Validation Reports Readme File

This Readme file contains a summary of the contents of Appendix A of the *Potential Background Constituent Levels in Storm Water at Boeing's Santa Susana Laboratory* report (this report). Appendix A contains seven tables, three figures, and two folders containing sampling and analytical results for samples discussed in this report.

Tables

Included in this Appendix are the following tables in Microsoft Excel format:

- Table A-1 soil background metals data set
- Table A-2 soil background dioxins data set
- Table A-3 post-fire drainage results
- Table A-4 post-fire background results
- Table A-5 post-fire location & coordinates
- Table A-6 ambient rain water First Quarter 2005
- Table A-7 units conversion

Tables A-1 and A-2 present the soil background data sets and comparison values for the RCRA Facility Investigation (RFI) program at the Santa Susana Field Laboratory (SSFL) for metals and dioxins, respectively. These data are approved by the Department of Toxic Substances Control (DTSC).

Table A-3 presents the post-fire results for soil, ash, and surface water samples collected at on- and offsite drainage locations between October 6, 2005 and May 22, 2006. Table A-4 presents the post-fire results for soil and ash samples collected at DTSC-approved soil background locations on October 13th and October 14th, 2005. The sample location and coordinate information for the post-fire samples is presented in Table A-5.

Table A-6 presents the metals and dioxins results for rainwater sampling conducted at the SSFL between January and March 2005. Table A-7 provides a units conversion reference table for results referenced in the text, tables, and appendix of this report.

Figures

Figure A-1 presents the DTSC-approved soil background sample locations that were sampled for soil and/or ash in October 2005 after the Topanga Fire. Figure A-2 presents post-fire reference sample locations that were sampled for soil, ash, and/or surface water between October 6, 2005 and May 22, 2006.

Folders

The folders of this appendix also contain electronic copies of validation reports, chain-of-custody (COC) forms, and chain-of-custody analytical request change forms (Change Forms). These files are organized into two main folder types: **Chain of Custody Forms** and **Validation Reports (1-7)**.

Chain of Custody Forms

Chain of custody forms were generated in the field at the time of sample collection. Each chain of custody includes information pertaining to sample identification, sample depth, sample matrix, collection date/time, analysis requested, turn-around times, general project information, and other additional sampling information. The chain of custody forms accompanied the samples from the time of collection until analysis by the laboratory.

Change Forms are generated for samples subsequent to shipment to the laboratory. Generally, change forms were generated when a change or correction to a COC was needed (e.g., when additional analyses were requested for a sample).

The files are organized by Sample Delivery Group (SDG) number, a tracking number assigned by the laboratories upon receipt of the samples.

Validation Reports

Validation reports include laboratory results and data assessment forms completed by AMEC Earth and Environmental, Inc. (AMEC) data validators. The validation report summaries identify the laboratory method and target compounds for each sample, in addition, the report indicates whether each compound was detected, the concentration (or detection limit if not detected), and applicable laboratory and data validation qualifiers. With the exception of field QC samples (field blanks, equipment rinsates), all analytical data generated from background field samples were validated by AMEC. Data validation report PDFs are organized by chemical group (analytical method), with each folder containing validation reports specific to respective analytical method as shown above.

These reports are provided in seven folders. Data validation reports for rainwater sample results are limited to samples represented in this report. Each of these subfolders is organized by a validation report number that was assigned by AMEC.

Table A-1
Soil Background Metals Data Set
Santa Susana Field Laboratory

SAMPLE ID	Depth (ft. bgs)	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Fluoride	Iron	Lead	Lithium	Manganese	Mercury	Molybdenum	Nickel
BGSS01S01	0.5	12,800	5.3 J	9.2	101	0.64	**3**	0.06 U	22.1	8.5	12.6	**3.1** UJ	**18,000**	13.8	**20** J	**190**	0.05 U	0.8 U	13.8
BGSS02S01	0.5	7,380	3.1 J	3.3	50.7	0.41	**1.2** UJ	0.06 U	8.8	2.9	4.5	**2.6** UJ	**12,000**	5.3	**17**	**190**	0.05 U	0.78 U	5.9
BGSS02S02	1	6,470	3.9 J	3.5	38.6	0.36	**1.2** UJ	0.06 U	11.6	3	5.8	**2.2** UJ	**14,000**	4.2	**20** J	**230**	0.04 U	0.79 U	5.2
BGSS03D01	0.5	12,200	7.4 J	2.4	91.8	0.59	**5** UJ	0.06 U	17.3	5.8	8.7	**2.5** J	**23,000**	7.5	**32** J	**500**	0.05 U	0.95 UJ	12.1
BGSS03S01	0.5	11,800	7 J	2.1	96.6	0.45	**5** UJ	0.06 U	15.5	6.4	8.1	**2.3** J	**23,000**	7.3	**31** J	**490**	0.05 U	0.82 UJ	11
BGSS03S02	1	12,400	6.5 J	2.5	93.2	0.62	**5.1** UJ	0.06 U	17.4	5.5	9.2	**3.1** J	**24,000**	5.6	**31** J	**420**	0.05	0.78 U	11.8
BGSS04S01	0.5	12,200	6.7 J	3.2	44.2	0.47	**7** UJ	0.06 U	36.8	5.3	3.8	**1.8** UJ	**25,000**	15.4	**29** J	**290**	0.05 U	0.81 U	9.8
BGSS06S01	0.5	9,960	6.7 J	4	62.7	0.54	**2.9** UJ	0.06 U	16	4.4	6.2	**2.1** J	**17,000**	7.9	**21** J	**320**	0.04 U	0.76 U	10.4
BGSS07S01	0.5	14,300	5.3 J	2.6	77	0.65	**4.5** UJ	0.06 UJ	25	6.8	6.7	**2.4** UJ	**19,000**	14	**29** J	**310**	0.09	0.81 U	15.6
BKND-1	0	**14,000**	1 U	3.9	54	0.28	**8** J	0.25	28.3	6.1	7.3	**1.8** UJ	**20,000**	18.6	**27** J	**370**	0.1 U	0.4	9.7
BKND-2	0	**10,000**	1.1 U	5.1	65.7	0.11 U	**5.5** UJ	0.46	19.8	8	17	**1.4** UJ	**18,000**	20.3	**19** J	**230**	0.11 U	0.37	15.4
BKND-3	0	**9,300**	1 U	4.3	69.8	0.43	**2.5**	0.21 U	14.3	5.6	8.2	**1.9** UJ	**15,000**	11.2	**18** J	**260**	0.1 U	0.36	9.9
BKND-4	0	**10,000**	1 U	3.9	77.5	0.37	**3.9** UJ	0.22	14	5.3	8.5	**1.7** UJ	**17,000**	13.1	**19** J	**300**	0.1 U	0.53	9.8
BKND-5	0	**10,000**	1 U	3.2	77.2	0.34	**2.7** UJ	0.25	13.9	5	8	**1.7** UJ	**15,000**	21.5	**21** J	**280**	0.1 U	0.38	9.9
BKND-6	0	**8,500**	1.1 U	6.3	110	0.37	**2.7**	0.23	15.8	5.8	9.9	**1.8** UJ	**15,000**	33.1	**20** J	**370**	0.11 U	0.64	10.9
BKND-7	0	**11,000**	1.1 U	3.9	109	0.48	**4.5**	0.4	21.9	10	17	**1.9** UJ	**15,000**	8.9	**22** J	**390**	0.11 U	0.35	15.4
BZSS01D01	0.5	10,300	8.7 J	5.9	58.6	0.63	**2.7**	0.06 UJ	16.3	7.2	9.6	**1.9** UJ	**17,000**	7.2	**21** J	**320**	0.07	5.4	13.4
BZSS01S01	0.5	10,700	6.4 J	5.8	62.8	0.59	**2.3**	0.06 UJ	16.7	7.5	8.7	**1.9** UJ	**17,000**	8	**19** J	**320**	0.07	5.2	13.8
BZSS02S01	0.5	11,900	4.4 J	4.2	69.2	0.47	**1.2** U	0.06 UJ	16.6	5.4	8.2	**2.3** UJ	**17,000**	18	**16** J	**210**	0.07	2.6	12
BZSS03S01	0.5	15,800	7.4 J	8.4	103	0.85	**5.3** UJ	0.06 UJ	23.2	7.5	14.5	**2.9** UJ	**24,000**	14.4	**28** J	**320**	0.07	1.1	16.6
BZSS03S02	1	18,100	8.7 J	8.5	106	0.99	**6.2** UJ	0.06 UJ	26.2	8.4	15.1	**4** UJ	**28,000**	10.8	**34** J	**330**	0.08	0.83 U	17.4
BZSS04S01	0.5	14,500	6.3 J	3.2	91.8	0.63	**2.6**	0.06 UJ	18.8	6.2	8.9	**2** UJ	**20,000**	14.3	**16** J	**290**	0.09	0.77 U	11.9
SGSS01S01	0	12,000	0.982 U	0.982 U	106	0.463	1.31 U	0.655 U	18.3	7.59	7.77	**1.7** UJ	**18,000**	10.9	**23** J	**320**	0.11 U	0.328 U	13.9
BZSS06S01	0	12,400	1.03 U	1.03 U	90.4	0.468	1.37 U	0.685	18.4	8.1	7.99	**1.9** UJ	**17,000**	12.8	**21** J	**310**	0.115 U	0.343 U	12.2
BZSS05S01	0	**10,000**	**0.66** UJ	**4.1**	**66**	**0.48**	**3.6** UJ	**0.39**	**15**	**4.9**	**11**	**2.6** UJ	**14,000**	**14**	**15** J	**310**	**0.02**	**0.62**	**11**
BG01005	0 - 1	**12,000**	**0.47** UJ	2.1 J	**75**	0.66	**0.97** U	0.5 U	21	**5.4**	11	**3.2** J	**20,000**	18	**16** J	**260**	**0.027**	**0.62**	16
BG01008	0 - 1	**13,000**	**0.48** UJ	2.2 J	**72**	0.61	**0.98** U	0.5 U	21	**6.9**	11	**2.6** J	**13,000**	9.5	**15** J	**310**	**0.029**	**0.69**	16
BG01100	0 - 1	**12,000**	**0.49** UJ	1.7 J	**69**	0.71	**1** U	0.5 U	22	**5.4**	12	**3.1** UJ	**20,000**	26	**18** J	**300**	**0.026**	**0.7**	16
BG02007	0 - 1	**9,600**	**0.5** UJ	3.6 J	**71**	0.53	**8** UJ	0.5 U	14	**4.7**	10	**2.4** UJ	**19,000**	34	**19** J	**300**	**0.031**	**0.94**	9.1
BG02074	0 - 1	**9,500**	**0.5** UJ	1.7 J	**76**	0.46	**5.2** UJ	0.5 U	16	**21**	17	**3.3** UJ	**15,000**	6.5	**18** J	**350**	**0.039**	**0.82**	14
BG02076	0 - 1	**9,200**	**0.55** UJ	2.9 J	**68**	0.54	**4.6** UJ	0.5 U	14	**4.5**	11	**3.2** UJ	**14,000**	12	**16** J	**270**	**0.029**	**0.8**	10
BG04025	0 - 1	**20,000**	2.5 UJ	3.3 J	**92**	0.65	**9.7** J	0.5 U	23	**9.3**	20	**3** J	**28,000**	18	**37** J	**380**	**0.034**	**0.41**	16
BG04029	0 - 1	**14,000**	2.5 UJ	3 J	**84**	0.73	**8.5** J	0.5 U	23	**8.3**	14	**2.6** J	**26,000**	15	**33** J	**350**	**0.031**	**0.47**	15
BG04090	0 - 1	**13,000**	2.5 UJ	3 J	**80**	0.65	**8.6** J	0.5 U	24	**8.1**	14	**2.4** J	**26,000**	20	**35** J	**340**	**0.04**	**0.47**	14
BCSS09S01	0	5,600	**0.18** UJ	9	36	0.5 U	**3** UJ	1 U	9	4	6	2.2	**25,000**	7	**27** J	**300**	**0.032**	**0.76**	7
BCSS11S01	0	13,000	**0.46** UJ	5 U	97	0.7	**5.9** UJ	1	17	5	8	1.7	**20,000**	10	**12** J	**410**	**0.048**	**4.4**	14
BCSS12S01	0	11,000	**0.6** UJ	6 U	82	0.7	**4**	1 U	16	6	9	4.3	**28,000**	14	**29** J	**420**	**0.019**	**2**	12
BCSS13S01	0	13,000 J	**0.38** UJ	5 U	84 J	1.1	**6.6** UJ	1 U	22	8	17	2.7	**23,000**	25	**29** J	**370**	**0.054**	**0.93**	17
BCBS09S01	0	18,000 J	--	14	140 J	1.1	--	1 U	29	12	28	6.7	--	29	--	--	--	--	29
BCSS14S01	0	16,000 J	**0.56** UJ	16	87 J	1	**5.6**	1 U	25	10	30	3.5	**27,000**	23	**31** J	**390**	**0.023**	**0.73** UJ	20
BCSS14D01	0	16,000 J	**0.58** UJ	14	91 J	1.1	**9**	1 U	26	11	28	4.2	**24,000**	26	**37** J	**370**	**0.022**	**0.68** UJ	23
Comparison Value		20,000	8.7	15	140	1.1	9.7	1	36.8	21	29	6.7	28,000	34	37	495	0.09	5.3	29

Notes

(a) Data set is for characterization and risk assessment evaluation of onsite investigational units for the SSFL RCRA Program.

All values in milligrams per kilogram (mg/kg) except pH units
"--" indicates sample was not collected (location inaccessible)
Bold indicates recent data collected in April 2005.
J = estimated value
U = non detect
UJ = estimated non detect
ft. bgs = feet below ground surface

Example:

Antimony	
5.3	J

Sample Result — Data Qualifier

Source of information in table:
MWH 2005. Standardized Risk Assessment Methodology (SRAM) Work Plan, Revision 2 - Final. September 2005. Appendix D; Soil Background Report, Final.

Table A-1
Soil Background Metals Data Set
Santa Susana Field Laboratory

SAMPLE ID	Depth (ft. bgs)	Potassium		Selenium		Silver		Sodium		Thallium		Vanadium		Zinc		Zirconium		pH	
BGSS01S01	0.5	**3,100**		0.47	U	0.76	U	**100**	J	**0.21**	UJ	38.2		70.4		**1.9**	U	**6.82**	J
BGSS02S01	0.5	**1,800**		0.46	U	0.74	U	**50**		**0.19**	UJ	16.7		41.8		**1.7**	U	**7.27**	J
BGSS02S02	1	**2,000**		0.47	U	0.75	U	**45**		**0.16**	UJ	14.7		40.7		**1.6**	U	**7.07**	J
BGSS03D01	0.5	**4,300**		0.72		0.75	U	**63**	J	**0.31**		27.3		63.6		**3.1**	J	**8.25**	J
BGSS03S01	0.5	**3,900**		0.59		0.74	U	**57**	J	**0.31**		25.5		61.3		**3.3**	J	**8.08**	J
BGSS03S02	1	**3,900**		0.53		0.74	U	**66**	J	**0.29**	J	28.1		62.8		**3.2**	J	**7.8**	J
BGSS04S01	0.5	**4,000**		0.48	U	0.77	U	**88**	J	**0.3**		57.1		47.3		**6.6**	J	**7.4**	J
BGSS06S01	0.5	**3,200**		0.45	U	0.72	U	**61**	J	**0.25**	J	26.6		56.9		**5.7**	J	**7.35**	J
BGSS07S01	0.5	**3,800**		0.48	UJ	0.77	U	**65**	J	**0.28**	UJ	35.7		53.2		**2.8**	J	**6.98**	J
BKND-1	0	**3,500**		2.1	U	0.21	U	**66**	J	**0.33**		44.5		47.4		**3.7**	J	**8.86**	J
BKND-2	0	**2,100**		2.1	U	0.21	U	**74**	J	**0.13**	J	31.9		62.5		**5.8**	J	**7.68**	J
BKND-3	0	**3,600**		2.1	U	0.21	U	**54**	J	**0.17**	UJ	21.4		50.3		**1.6**	U	**7.21**	J
BKND-4	0	**3,600**		2	U	0.2	U	**48**	J	**0.46**		22.5		52.5		**1.8**	J	**6.78**	J
BKND-5	0	**3,200**		2.1	U	0.21	U	**51**	J	**0.36**		21.7		62.4		**5.9**	J	**6.95**	J
BKND-6	0	**3,100**		2.1	U	0.21	U	**51**	J	**0.19**	UJ	26.5		59.3		**1.7**	U	**7.08**	J
BKND-7	0	**3,000**		2.1	U	0.21	U	**51**	J	**0.24**	UJ	37.8		51.7		**1.9**	U	**7.08**	J
BZSS01D01	0.5	**4,000**		0.48	UJ	1.1		**78**	J	**0.23**	J	26.6		48.3		**1.6**		**7.2**	J
BZSS01S01	0.5	**3,600**		0.7	J	0.76	U	**72**	J	**0.23**	J	27.8		50.6		**1.9**		**6.98**	J
BZSS02S01	0.5	**2,500**		0.46	UJ	0.74	U	**47**		**0.23**	UJ	28.1		50.3		**1.9**	U	**6.88**	J
BZSS03S01	0.5	**4,000**		0.48	J	0.74	U	**83**		**0.045**	UJ	32.4		63.1		**3.3**		**7.75**	J
BZSS03S02	1	**3,700**		0.49	UJ	0.79		**110**		**0.44**	UJ	35.8		64.1		**4.2**		**7.5**	J
BZSS04S01	0.5	**3,800**		0.45	UJ	0.73	U	**100**	J	**0.25**	UJ	30.6		52.7		**1.9**		**7.21**	J
SGSS01S01	0	**3,800**		0.982	U	0.328	U	**53**	J	**0.2**	UJ	34.6		54.2		**3.2**	J	**6.15**	J
BZSS06S01	0	**2,700**		1.03	U	0.343	U	**65**	UJ	**0.29**	UJ	38.4		60.6		**2.3**	J	**6.17**	
BZSS05S01	0	**2,600**		**0.45**	UJ	**0.19**	U	**76**	UJ	**0.3**	UJ	**26**		**44**		**2.3**	J	**6.22**	
BG01005	0 - 1	**2,100**		**0.28**		1	U	**65**	J	**0.22**	UJ	**42**		48		**2**	J	**6.85**	
BG01008	0 - 1	**3,000**		**0.28**		1	U	**78**	J	**0.53**	UJ	**40**		45		**2.2**	J	**6.58**	
BG01100	0 - 1	**2,600**		**0.2**	U	1	U	**65**	J	**0.29**	UJ	**36**		51		**1.7**	J	**7.11**	
BG02007	0 - 1	**3,000**		**0.21**	U	1	U	**68**	J	**0.24**	UJ	**27**		48		**1.9**	J	**7.04**	
BG02074	0 - 1	**3,600**		**0.27**		1	U	**62**	J	**0.22**	UJ	**26**		55		**1.7**	J	**6.85**	
BG02076	0 - 1	**3,200**		**0.27**		1	U	**73**	J	**0.2**	UJ	**26**		49		**7.1**	J	**6.95**	
BG04025	0 - 1	**6,100**		**0.31**		1	U	**93**	J	**0.35**		**62**		69		**6**	J	**8.42**	J
BG04029	0 - 1	**6,400**		**0.25**		1	U	**81**	J	**0.33**		**56**		67		**5.5**	J	**7.89**	J
BG04090	0 - 1	**5,400**		**0.31**		1	U	**81**	J	**0.31**		**57**		70		**5.1**	J	**7.58**	J
BCSS09S01	0	**4,700**		**0.45**		1	U	**68**		**0.34**	UJ	19		35	J	**2.6**		**5.85**	J
BCSS11S01	0	**2,400**		**0.23**		1	U	**98**	J	**0.27**	UJ	28		32	J	**8.6**	J	**6.9**	J
BCSS12S01	0	**4,800**		**0.23**		1	U	**88**	J	**0.39**	J	30		56	J	**2.6**		**7.48**	J
BCSS13S01	0	**3,700**		**0.32**		1	U	**76**	J	**0.31**	UJ	43		78	J	**2.8**	J	**6.93**	J
BCBS09S01	0	--		--		1	U	--		--		54		110	J	--		--	
BCSS14S01	0	**3,600**		**0.22**		1	U	**96**	J	**0.27**	UJ	45		97	J	**7.2**		**7.48**	J
BCSS14D01	0	**3,300**		**0.19**		1	U	**78**	J	**0.27**	UJ	46		110	J	**4.3**		**8.2**	J
Comparison Value		6,400		0.655		0.79		110		0.46		62		110		8.6		9	

Notes
(a) Data set is for characterization and risk assessment evaluation of onsite investigational units for the SSFL RCRA Program.

All values in milligrams per kilogram (mg/kg) except pH units
"--" indicates sample was not collected (location inaccessible)
Bold indicates recent data collected in April 2005.
J = estimated value
U = non detect
UJ = estimated non detect
ft. bgs = feet below ground surface

Data Source Reference Documents
1 = Multi-Media Sampling Report for the BBI and the SMMC (McLaren/Hart 1993b)
2 = RFI Work Plan Addendum (Ogden 1996)
3 = FSDF Characterization Report (ICF 1997)
4 = Bell Canyon Area Soil Sampling Report (Ogden 1998b)
5 = SRAM Work Plan (Ogden 2000a)
6 = This report

Source of information in table:
MWH 2005. Standardized Risk Assessment Methodology (SRAM) Work Plan, Revision 2 - Final. September 2005. Appendix D; Soil Background Report, Final.

Table A-2
Soil Background Dioxins Data Set
Santa Susana Field Laboratory

SAMPLE ID	Depth (feet bgs)	2,3,7,8-TCDD			2,3,7,8-TCDF			1,2,3,7,8-PeCDD			1,2,3,7,8-PeCDF			2,3,4,7,8-PeCDF			1,2,3,4,7,8-HxCDD			1,2,3,6,7,8-HxCDD			1,2,3,7,8,9-HxCDD			1,2,3,4,7,8-HxCDF			1,2,3,6,7,8-HxCDF			1,2,3,7,8,9-HxCDF			2,3,4,6,7,8-HxCDF			1,2,3,4,6,7,8-HpCDD			1,2,3,4,6,7,8-HpCDF		
BCBS09S01	0	2	U		2	U		10	U		10	U		10	U		10	U		10	U		10	U		10	U		10	U		10	U		10	U		10	U		10	U	
BCSS09S01	0	0.99	U		0.99	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U	
BCSS11S01	0	1	U		1	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U	
BCSS12S01	0	0.99	U		0.99	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U		5	U	
BCSS13S01	0	1	U		1	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5	U		5.2	U	
BCSS14D01	0	1.3	U		1.3	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6	U		6.4	U	
BCSS14S01	0	1.4	U		1.4	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		7	U		6.8	U	
BKND-1	0	0.57	U		0.72	J		0.12	J		0.21	J		0.33	UJ		0.41	U		0.43	J		0.48	J		0.35	J		0.44	U		0.23	U		5.1	U		7			1.7	UJ	
BKND-2	0	0.66	U		1.1	J		0.26	UJ		0.4	J		0.38	J		0.27	J		0.63	J		0.77	J		0.48	J		0.58	U		0.21	U		5.4	U		8			1.6	UJ	
BKND-3	0	0.78	U		0.45	UJ		0.44	U		0.48	U		0.17	J		0.2	UJ		0.49	UJ		0.69	J		0.23	UJ		0.62	U		0.33	UJ		5	U		9			1.6	J	
BKND-4	0	0.44	U		0.29	J		0.24	U		0.32	U		0.12	U		0.13	UJ		0.57	J		0.63	J		0.28	J		0.43	U		0.27	UJ		5.1	U		8	J		1.7	J	
BKND-5	0	0.52	U		1.4			0.46	U		0.45	J		0.44	J		0.18	J		0.74	J		0.7	J		0.57	UJ		0.71	U		0.1	J		5.2	U		9	J		2.4	UJ	
BKND-6	0	0.84	U		1.8	J		0.76	U		0.59	J		0.64	J		0.75	U		0.95	J		1.1	J		0.73	J		1	U		0.43	J		5.3	U		11	J		3.6	UJ	
BKND-7	0	0.6	U		1.3	UJ		0.18	J		0.34	U		0.5	J		0.2	J		0.76	UJ		0.81	J		0.56	J		0.69	U		0.21	U		5.3	U		9			2	UJ	
BZSS05S01	0	0.16	U		0.15	U		0.4	U		0.18	U		0.16	U		0.13	U		0.84	J		1	J		0.16	U		0.16	U		0.1	U		0.14	U		4	UJ		0.8	J	
BZSS06S01	0	0.15	U		0.18	U		0.31	U		0.31	U		0.28	U		0.21	U		0.22	U		0.2	U		0.11	U		0.11	U		0.088	U		0.09	U		2	UJ		0.49		
SGSS01S01	0	0.24	U		0.34	J		0.43	U		0.22	U		0.54			0.34	J		0.77	J		0.64	J		0.47			0.3			0.14	U		0.45			13			2.5		
Comparison Value		0.5 (d)			1.8			0.18			0.59			0.64			0.34			0.95			1.1			0.73			0.3			0.43			0.45			13			2.5		

(a) TEQ values were calculated using detected congener concentrations
and WHO toxicity equivalency factors. For comparison, western United States dioxin TEQs typically range up to 2 pg/g or parts per trillion.
(b) TEQ values do not include total dioxin or total furan concentrations.
(c) Data set is for characterization and risk assessment evaluation
of onsite investigational units for the SSFL RCRA Program.
(d) = values correspond to the representative soil reporting limit (as analyzed by Alta Analytical Laboratory).

Example:

TOTAL TCDF		
0.99	U	

Sample Result — Data Qualifier

All sample results in picograms per gram (pg/g)
bgs = below ground surface

Source of information in table:
MWH 2005. Standardized Risk Assessment Methodology (SRAM) Work Plan,
Revision 2 - Final. September 2005. Appendix D; Soil Background Report, Final.

- - = Not Applicable

Table A-2
Soil Background Dioxins Data Set
Santa Susana Field Laboratory

SAMPLE ID	Depth (feet bgs)	1,2,3,4,7,8,9-HpCDF			OCDD			OCDF			TOTAL TCDD			TOTAL TCDF			TOTAL PeCDD			TOTAL PeCDF			TOTAL HxCDD			TOTAL HxCDF			TOTAL HpCDD			TOTAL HpCDF			TEQ[a]
BCBS09S01	0	10	U		20	U		20	U		2	U		2	U		10	U		10	U		10	U		10	U		10	U		10	U		0
BCSS09S01	0	5	U		9.9	U		9.9	U		0.99	U		0.99	U		5	U		5	U		5	U		5	U		5	U		5	U		0
BCSS11S01	0	5	U		46	J		10	U		1	U		3.1	J		5	U		5	U		5	U		5	U		5	U		5	U		0.0046
BCSS12S01	0	5	U		17	J		9.9	U		0.99	U		0.99	U		5	U		5	U		5	U		5	U		5	U		5	U		0.0017
BCSS13S01	0	5.2	U		10	U		10	U		1	U		1	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		5.2	U		0
BCSS14D01	0	6.4	U		13	J		13	U		1.3	U		1.3	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		6.4	U		0.0013
BCSS14S01	0	6.8	U		14	U		14	U		1.4	U		1.4	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		6.8	U		0
BKND-1	0	0.19	UJ		74.6			3.2	J		1	U		22.3	U		5.1	U		15.5	U		5.2	J		6.6	U		16.4			3.4	J		0.41
BKND-2	0	0.21	UJ		44.7			1.7	J		1.1	U		44.1	U		5.4	U		24.3	U		6.8	J		8.9	U		15.5			2.9	J		0.62
BKND-3	0	2.2	U		76.2			3.9	J		1	U		7.7	U		5	U		8.5	U		5.4	J		8.7	U		17.7			3.8	J		0.27
BKND-4	0	0.19	J		83.1			3.7	J		1	U		6.6	U		5.1	U		6.6	U		5.3	J		5.8	U		18.2			3.9	J		0.28
BKND-5	0	1.3	U		110			3.9	J		1	U		28.3	U		5.2	U		18.3	U		7.3	J		10.2	U		26.3			4.5	J		0.65
BKND-6	0	1.3	U		138			7.9	J		1.6	UJ		54.9	U		5.3	U		32.3	U		10	J		14.8	U		31.5			6.8	J		0.98
BKND-7	0	1.3	U		108			3.4	J		1.1	U		41.9	U		5.3	U		24.4	U		7.9	J		10.8	U		25.1			3.9	J		0.69
BZSS05S01	0	0.086	U		25			1.4	J		0.16	U		0.5			0.4	U		1.7	J		4.2			1.1	J		8.4			1.5	J		0.19
BZSS06S01	0	0.062	U		15			0.96			0.15	U		0.95			0.31	U		2.5	J		0.91	J		0.97	J		4.2			0.49	J		0.0065
SGSS01S01	0	0.25	U		140			8.1			0.24	U		4			0.43	U		4.6			6.4			4.2			26			6.9			0.77
Comparison Value	0.19				140			8.1			- -			- -			- -			- -			- -			- -			- -			- -			- -

(a) TEQ values were calculated using detected congener concentrations
and WHO toxicity equivalency factors. For comparison, western United States dioxin TEQs typically range up to 2 pg/g or parts per trillion.
(b) TEQ values do not include total dioxin or total furan concentrations.
(c) Data set is for characterization and risk assessment evaluation
of onsite investigational units for the SSFL RCRA Program.
(d) = values correspond to the representative soil reporting limit (as analyzed by Alta Analytical Laboratory).

All sample results in picograms per gram (pg/g)
bgs = below ground surface

Example:

TOTAL TCDF		
0.99	U	

Sample Result — Data Qualifier

Qualifiers
U = non detect
J = estimated value
UJ = estimated non detect

TCDD = tetrachlorodibenzo-p-dioxin
TCDF = tetrachlorodibenzofuran
PeCDD = pentachlorodibenzo-p-dioxin
PeCDF = pentachlorodibenzofuran
HxCDD = hexachlorodibenzo-p-dioxin
HxCDF = hexachlorodibenzofuran
HpCDD = heptachlorodibenzo-p-dioxin
HpCDF = heptachlorodibenzofuran
OCDD = octachlorodibenzo-p-dioxin
OCDF = octachlorodibenzofuran
TEQ = Toxicity Equivalent

Source of information in table:
MWH 2005. Standardized Risk Assessment Methodology (SRAM) Work Plan,
Revision 2 - Final. September 2005. Appendix D; Soil Background Report, Final.

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1-D	CF-1-D	CRP-1	CRP-1	CRP-1
Sample Type		Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Surface Water	Surface Water
Sampling Date		10/07/2005	10/07/2005	10/18/2005	01/01/2006	01/03/2006	01/14/2006	02/19/2006	02/28/2006	03/03/2006	03/11/2006	03/28/2006	04/04/2006	04/14/2006	05/22/2006	04/04/2006	02/28/2006	10/07/2005	01/02/2006	02/28/2006
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL008	WL009	WL033	WL038	WL044	WL050	WL053	WL062	WL067	WL070	WL074	WL079	WL086	WL090	WL080	WL063	WL007	WL040	WL059
Group	**Constituent**																			
DIOXIN	1,2,3,4,6,7,8-HpCDD	1.06 J	0.581 J	< 1.50E-06 U	< 1.02E-06 U	< 9.96E-07 U	< 2.93E-06 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	3.41	5.23E-05	- -
DIOXIN	1,2,3,4,6,7,8-HpCDF	< 0.0986 U	< 0.107 U	< 1.40E-06 U	< 1.48E-06 U	< 6.15E-07 U	< 1.17E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.36 UJ	2.80E-05	- -
DIOXIN	1,2,3,4,7,8,9-HpCDF	< 0.075 U	< 0.153 U	< 1.70E-06 U	< 1.35E-06 U	< 6.05E-07 U	< 1.12E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.0951 U	< 8.91E-06 U	- -
DIOXIN	1,2,3,4,7,8-HxCDD	< 0.106 U	< 0.419 U	< 1.30E-06 U	< 1.02E-06 U	< 1.37E-06 U	< 1.67E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.164 U	< 3.44E-06 U	- -
DIOXIN	1,2,3,4,7,8-HxCDF	< 0.0589 U	0.11 J	< 9.80E-07 U	< 6.24E-07 U	< 2.63E-07 U	< 5.53E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.119 U	< 2.45E-06 U	- -
DIOXIN	1,2,3,6,7,8-HxCDD	0.178 J	< 0.421 U	< 1.30E-06 U	< 1.09E-06 U	< 1.38E-06 U	< 1.93E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.331 J	3.84E-06 J	- -
DIOXIN	1,2,3,6,7,8-HxCDF	0.102 J	< 0.0717 U	< 9.90E-07 U	< 6.86E-07 U	< 2.58E-07 U	< 5.20E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.11 U	< 2.53E-06 U	- -
DIOXIN	1,2,3,7,8,9-HxCDD	0.148 J	< 0.422 U	< 1.30E-06 U	< 1.03E-06 U	< 1.34E-06 U	< 1.74E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.155 U	< 3.30E-06 UJ	- -
DIOXIN	1,2,3,7,8,9-HxCDF	< 0.082 U	< 0.112 U	< 1.30E-06 U	< 9.68E-07 U	< 4.36E-07 U	< 8.75E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.198 U	< 3.35E-06 U	- -
DIOXIN	1,2,3,7,8-PeCDD	< 0.0699 U	< 0.154 U	< 1.60E-06 U	< 5.90E-07 U	< 7.65E-07 U	< 1.21E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.277 U	< 1.89E-06 U	- -
DIOXIN	1,2,3,7,8-PeCDF	< 0.157 UJ	< 0.231 U	< 1.80E-06 U	< 9.43E-07 U	< 8.24E-07 U	< 1.16E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.231 U	< 2.29E-06 U	- -
DIOXIN	2,3,4,6,7,8-HxCDF	< 0.0616 U	< 0.0764 U	< 1.10E-06 U	< 6.88E-07 U	< 2.99E-07 U	< 5.72E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.128 U	< 2.58E-06 U	- -
DIOXIN	2,3,4,7,8-PeCDF	0.137 J	< 0.212 U	< 9.20E-07 U	< 7.63E-07 U	< 7.42E-07 U	< 1.15E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.215 U	< 2.60E-06 UJ	- -
DIOXIN	2,3,7,8-TCDD	< 0.0676 U	< 0.187 U	< 1.30E-06 U	< 6.46E-07 U	< 8.16E-07 U	< 1.28E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.185 U	< 1.45E-06 U	- -
DIOXIN	2,3,7,8-TCDF	0.381 J	< 0.189 U	< 1.20E-06 U	< 6.58E-07 U	< 8.09E-07 U	< 8.50E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.213 J	< 1.66E-06 U	- -
DIOXIN	OCDD	5.59	3.64 J	1.50E-05 J	9.13E-06 J	< 3.10E-06 UJ	< 2.24E-05 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	14.8	3.35E-04	- -
DIOXIN	OCDF	0.331 J	< 0.441 U	< 6.90E-06 UJ	5.72E-06 J	< 2.20E-06 U	< 2.71E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.425 UJ	1.81E-04	- -
DIOXIN	TCDD TEQ (with DNQ)	0.16	0.017	1.50E-09	1.49E-09	0	0	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.08998	1.24E-06	- -
DIOXIN	TCDD TEQ (no DNQ)	- -	- -	0	0	0	0	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	8.55E-07	- -
DIOXIN	Total HpCDD	2.16	0.581	< 1.50E-06 U	1.53E-06	< 9.96E-07 U	< 2.93E-06 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	7.32	1.07E-04	- -
DIOXIN	Total HpCDF	0.174	< 0.127 U	< 1.50E-06 U	< 1.41E-06 U	< 6.09E-07 U	< 1.15E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.36	4.72E-05	- -
DIOXIN	Total HxCDD	1.23	< 0.421 U	< 1.30E-06 U	< 1.05E-06 U	< 1.37E-06 U	< 1.78E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	3.07	2.71E-05	- -
DIOXIN	Total HxCDF	0.301	0.11	< 1.10E-06 U	< 7.33E-07 U	< 3.07E-07 U	< 6.18E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.39	1.64E-05	- -
DIOXIN	Total PeCDD	< 0.257 U	< 0.154 U	< 1.60E-06 U	< 5.90E-07 U	< 7.65E-07 U	< 1.21E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.277 U	2.45E-06	- -
DIOXIN	Total PeCDF	0.867	< 0.221 U	< 1.40E-06 U	< 8.47E-07 U	< 7.82E-07 U	< 1.15E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.664 U	1.91E-05	- -
DIOXIN	Total TCDD	0.464	< 0.187 U	< 1.30E-06 U	< 6.46E-07 U	< 8.16E-07 U	< 1.28E-06 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.519	< 1.45E-06 U	- -
DIOXIN	Total TCDF	3.57	< 0.189 U	< 1.20E-06 U	< 6.58E-07 U	< 8.09E-07 U	< 8.50E-07 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	1.65	1.09E-05	- -
METALS	Aluminum	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Antimony	0.19 J	0.69 J	0.0009 J	< 0.00093 UJ	0.00024 J	0.00017 J	- -	- -	- -	- -	0.00025 J	0.00019 J	< 0.00018 UJ	< 0.00014 UJ	0.00019 J	- -	0.18 J	< 0.00022 UJ	- -
METALS	Arsenic	8.4	5.4	< 0.005 U	0.0055	< 0.005 U	0.0097	- -	- -	- -	- -	< 0.011 UJ	0.0051	0.025	0.0047 J	< 0.005 U	- -	5.9	0.022	- -
METALS	Barium	99	630	0.21	0.072	0.079	0.075	- -	- -	- -	- -	0.1	0.057	0.083	0.083	0.056	- -	97	0.75	- -
METALS	Beryllium	0.66	< 0.8 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	- -	- -	- -	- -	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	- -	0.65	0.0052	- -
METALS	Boron	14	330	0.029 J	0.08	0.078	0.071 J	- -	- -	- -	- -	0.1	0.059 J	0.16	0.079 J	0.057 J	- -	11	0.033 J	- -
METALS	Cadmium	0.19	0.31	< 0.00023 UJ	0.00021 J	0.0005 J	< 0.001 UJ	- -	- -	- -	- -	0.000048 J	< 0.000077 UJ	0.00019 J	< 0.001 UJ	< 0.000076 UJ	- -	0.25	0.0011	- -
METALS	Chromium	19	19	< 0.01 UJ	< 0.0013 UJ	< 0.0015 UJ	< 0.002 UJ	- -	- -	- -	- -	0.0079	0.0041 J	0.006	< 0.005 U	0.004 J	- -	18	0.093	- -
METALS	Cobalt	8.6	7.7	0.0055 J	< 0.01 U	< 0.01 U	< 0.01 U	- -	- -	- -	- -	0.0041 J	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	- -	5.1	0.041	- -
METALS	Copper	16	78	0.011	0.013	0.0075 J	0.02	- -	- -	- -	- -	0.018	0.0064	0.013	0.0074	0.0061	- -	15	0.025	- -
METALS	Iron	23000	19000	10	1	1.1	0.19	- -	- -	- -	- -	9.1	4.1	0.19	< 0.04 U	4	- -	18000	83	- -
METALS	Lead	13	13	0.0074	0.0037	0.0011	0.00017 J	- -	- -	- -	- -	0.0053	0.0025	< 0.00026 UJ	< 0.001 UJ	0.0026	- -	14	0.031	- -
METALS	Lithium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Manganese	550	1400	0.76	0.25	0.082	0.021	- -	- -	- -	- -	0.27	0.095	0.37	0.2	0.092	- -	290	2.3	- -
METALS	Mercury	< 0.0034 U	< 0.003 U	< 0.0002 U	< 0.0002 U	< 0.0002 UJ	< 0.0002 U	- -	- -	- -	- -	< 0.0002 UJ	< 0.0002 U	< 0.0002 U	< 0.0002 U	< 0.0002 U	- -	< 0.003 U	0.00008 J	- -
METALS	Molybdenum	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Nickel	16	37	< 0.021 UJ	0.0027 J	0.002 J	< 0.01 U	- -	- -	- -	- -	0.0089 J	0.0036 J	< 0.01 U	< 0.01 U	0.0034 J	- -	13	0.079	- -
METALS	Potassium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Selenium	0.87 J	0.82 J	0.002	< 0.004 U	0.0011 J	0.0025	- -	- -	- -	- -	0.0012 J	0.00062 J	0.0037	0.00085 J	0.00082 J	- -	0.43 J	< 0.002 U	- -
METALS	Silver	0.055	0.22	< 0.001 U	< 0.002 U	< 0.001 U	< 0.001 UJ	- -	- -	- -	- -	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 UJ	< 0.001 U	- -	0.061 J	0.00034 J	- -
METALS	Sodium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Thallium	0.39	0.17	< 0.00015 UJ	< 0.00018 UJ	< 0.001 U	< 0.001 U	- -	- -	- -	- -	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	< 0.001 U	- -	0.21	< 0.00018 UJ	- -
METALS	Vanadium	31	42	0.018	0.0039 J	0.0043 J	< 0.01 U	- -	- -	- -	- -	0.014	0.0078 J	< 0.01 U	< 0.01 U	0.0071 J	- -	29	0.16	- -
METALS	Zinc	90	350	0.046 J	< 0.02 U	< 0.02 U	< 0.02 U	- -	- -	- -	- -	0.045	< 0.02 U	0.015 J	< 0.02 U	< 0.02 U	- -	72	0.32	- -
METALS	Zirconium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
PAH	1-Methylnaphthalene	55	12 J	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	25	- -	- -
PAH	2-Methylnaphthalene	64	17 J	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	33	- -	- -
PAH	Acenaphthene	< 23 U	110	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Acenaphthylene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Anthracene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Benzo(a)anthracene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Benzo(a)pyrene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Benzo(b)fluoranthene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Benzo(g,h,i)perylene	< 23 UJ	< 20 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Benzo(k)fluoranthene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Chrysene	< 23 U	22	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Dibenzo(a,h)anthracene	< 23 UJ	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1-D	CF-1-D	CRP-1	CRP-1	CRP-1
Sample Type		Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Surface Water	Surface Water
Sampling Date		10/07/2005	10/07/2005	10/18/2005	01/01/2006	01/03/2006	01/14/2006	02/19/2006	02/28/2006	03/03/2006	03/11/2006	03/28/2006	04/04/2006	04/14/2006	05/22/2006	04/04/2006	02/28/2006	10/07/2005	01/02/2006	02/28/2006
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL008	WL009	WL033	WL038	WL044	WL050	WL053	WL062	WL067	WL070	WL074	WL079	WL086	WL090	WL080	WL063	WL007	WL040	WL059
Group	**Constituent**																			
PAH	Fluoranthene	< 23 U	22	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	10 J	- -	- -
PAH	Fluorene	9.2 J	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Indeno(1,2,3-cd)pyrene	< 23 U	< 20 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	- -	- -
PAH	Naphthalene	280	130	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	270	- -	- -
PAH	Phenanthrene	32	110	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	50	- -	- -
PAH	Pyrene	12 J	19 J	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	9.6 J	- -	- -
SVOC	1,2,4-Trichlorobenzene	- -	- -	< 1 UJ	< 0.96 U	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	1,2-Dichlorobenzene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	1,2-Diphenylhydrazine/Azobenzene	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	1,3-Dichlorobenzene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	1,4-Dichlorobenzene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	2,4,5-Trichlorophenol	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	2,4,6-Trichlorophenol	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	2,4-Dichlorophenol	- -	- -	< 2 U	< 1.9 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	2,4-Dimethylphenol	- -	- -	1.1 J	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	2,4-Dinitrophenol	- -	- -	< 5 UJ	2.8 J	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	2,4-Dinitrotoluene	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	2,6-Dinitrotoluene	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	2-Chloronaphthalene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	2-Chlorophenol	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	2-Methylnaphthalene	- -	- -	< 1 U	< 0.96 U	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	2-Methylphenol	- -	- -	2.1	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	2-Nitroaniline	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	2-Nitrophenol	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	3,3-Dichlorobenzidine	- -	- -	< 5 U	< 4.8 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	3-Nitroaniline	- -	- -	< 5 U	< 4.8 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	4,6-Dinitro-2-methylphenol	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	4-Bromophenyl phenyl ether	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	4-Chloro-3-methylphenol	- -	- -	< 2 U	< 1.9 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	4-Chloroaniline	- -	- -	< 2 U	< 1.9 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	4-Chlorophenyl phenyl ether	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	4-Methylphenol	- -	- -	5	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.28 J	- -
SVOC	4-Nitroaniline	- -	- -	< 5 U	1.7 J	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	4-Nitrophenol	- -	- -	< 5 UJ	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Acenaphthene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Acenaphthylene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Aniline	- -	- -	< 10 U	< 9.6 U	< 9.6 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 10 U	- -
SVOC	Anthracene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Benzidine	- -	- -	5 R	< 4.8 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 UJ	- -
SVOC	Benzo(a)anthracene	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Benzo(a)pyrene	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	Benzo(b)fluoranthene	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	Benzo(g,h,i)perylene	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Benzo(k)fluoranthene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Benzoic acid	- -	- -	19 J	6.9 J	< 19 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	9.5 J	- -
SVOC	Benzyl alcohol	- -	- -	11	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	1.6 J	- -
SVOC	Bis(2-chloroethoxy)methane	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Bis(2-chloroethyl)ether	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Bis(2-chloroisopropyl)ether	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Bis(2-ethylhexyl)phthalate	- -	- -	< 5 U	< 4.8 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Butyl benzyl phthalate	- -	- -	< 0.98 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Chrysene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Dibenzo(a,h)anthracene	- -	- -	< 0.5 UJ	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Dibenzofuran	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Diethyl phthalate	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	5.9	- -
SVOC	Dimethyl phthalate	- -	- -	< 0.5 U	0.35 J	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.4 J	- -
SVOC	Di-n-butyl phthalate	- -	- -	< 2 U	< 1.9 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	Di-n-octyl phthalate	- -	- -	< 5 U	< 4.8 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Fluoranthene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Fluorene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Hexachlorobenzene	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	Hexachlorobutadiene	- -	- -	< 2 UJ	< 1.9 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	Hexachlorocyclopentadiene	- -	- -	< 5 U	< 4.8 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 5 U	- -
SVOC	Hexachloroethane	- -	- -	< 3 UJ	< 2.9 U	< 2.9 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 3 U	- -

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1	CF-1-D	CF-1-D	CRP-1	CRP-1	CRP-1
Sample Type		Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Surface Water	Surface Water
Sampling Date		10/07/2005	10/07/2005	10/18/2005	01/01/2006	01/03/2006	01/14/2006	02/19/2006	02/28/2006	03/03/2006	03/11/2006	03/28/2006	04/04/2006	04/14/2006	05/22/2006	04/04/2006	02/28/2006	10/07/2005	01/02/2006	02/28/2006
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL008	WL009	WL033	WL038	WL044	WL050	WL053	WL062	WL067	WL070	WL074	WL079	WL086	WL090	WL080	WL063	WL007	WL040	WL059
Group	**Constituent**																			
SVOC	Indeno(1,2,3-cd)pyrene	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	Isophorone	- -	- -	0.9 J	< 0.96 UJ	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.18 J	- -
SVOC	Naphthalene	- -	- -	< 1 U	< 0.96 U	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	Nitrobenzene	- -	- -	< 1 U	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	N-Nitrosodimethylamine	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	N-Nitroso-di-n-propylamine	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	N-Nitrosodiphenylamine	- -	- -	< 1 U	< 0.96 U	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	Pentachlorophenol	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 2 U	- -
SVOC	Phenanthrene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
SVOC	Phenol	- -	- -	13	< 0.96 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 1 U	- -
SVOC	Pyrene	- -	- -	< 0.5 U	< 0.48 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 0.5 U	- -
WETCHEM	Ammonia-N	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.56 J	< 0.5 U	1.1	1.1 J	0.84	- -	- -	- -	- -
WETCHEM	Ammonia-NH3	< 6.8 U	< 6 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	30	- -	- -
WETCHEM	Nitrate/Nitrite-N	- -	- -	- -	- -	- -	- -	1.2	2	1.1	2.7	1.7	0.65	< 0.15 U	0.3	0.64	2.1	- -	- -	3.2
WETCHEM	Sulfate	4800	1100	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	1300	- -	- -
WETCHEM	Surfactants (MBAS)	3.6 J	1400 J	0.24	0.13 J	0.05 J	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	0.48 J	< 0.2 U	- -
WETCHEM	Total Cyanide	6.7	2.8	0.0058	< 0.005 U	0.0031 J	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	6.6	0.0037 J	- -
WETCHEM	pH	- -	- -	- -	- -	- -	- -	7.49	8.22	7.97	7.99	7.34	8.34	8.08	7.28	8.3	8.24	- -	- -	7.46
WETCHEM	Total Suspended Solids	- -	- -	- -	- -	- -	- -	130	380	150	100	1500	73	11	< 10 U	72	1200	- -	- -	80

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		CRP-1	FC-1	FC-1	FC-1	FC-1	FC-1	FC-1	KD-1	LFBS54S01	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1
Sample Type		Surface Water	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Sediment	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampling Date		04/04/2006	02/23/2006	02/23/2006	03/03/2006	03/29/2006	04/04/2006	04/14/2006	01/03/2006	01/17/2006	10/07/2005	10/07/2005	10/18/2005	01/01/2006	01/03/2006	01/14/2006	02/19/2006	02/28/2006	03/03/2006
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL077	WL057	WL058	WL064	WL076	WL084	WL087	WL048	WL051	WL010	WL011	WL034	WL037	WL043	WL049	WL052	WL061	WL065
Group	**Constituent**																		
DIOXIN	1,2,3,4,6,7,8-HpCDD	- -	7.24	2.85 J	- -	- -	- -	- -	< 1.13E-06 U	19.5	0.355 J	0.833 J	3.00E-04	< 1.39E-06 U	< 1.30E-06 U	< 3.94E-06 U	- -	- -	- -
DIOXIN	1,2,3,4,6,7,8-HpCDF	- -	0.604 J	0.34 J	- -	- -	- -	- -	< 8.68E-07 U	3.5	< 0.112 U	< 0.15 U	3.20E-05 J	< 1.79E-06 U	< 6.18E-07 U	< 1.69E-06 U	- -	- -	- -
DIOXIN	1,2,3,4,7,8,9-HpCDF	- -	< 0.0438 U	< 0.0522 U	- -	- -	- -	- -	< 8.38E-07 U	0.263 J	< 0.138 U	< 0.174 U	< 2.60E-06 U	< 1.66E-06 U	< 5.83E-07 U	< 1.66E-06 U	- -	- -	- -
DIOXIN	1,2,3,4,7,8-HxCDD	- -	0.17 J	< 0.154 U	- -	- -	- -	- -	< 1.30E-06 U	0.389 J	< 0.253 U	< 0.404 U	< 3.20E-06 U	< 1.47E-06 U	< 1.23E-06 U	< 2.69E-06 U	- -	- -	- -
DIOXIN	1,2,3,4,7,8-HxCDF	- -	0.122 J	< 0.0377 U	- -	- -	- -	- -	< 5.33E-07 U	0.581 J	< 0.0561 U	< 0.088 U	5.00E-06 J	< 6.51E-07 U	< 3.23E-07 U	< 8.25E-07 U	- -	- -	- -
DIOXIN	1,2,3,6,7,8-HxCDD	- -	0.477 J	0.916 J	- -	- -	- -	- -	< 1.31E-06 U	1.23 J	< 0.259 U	< 0.397 U	< 1.70E-05 UJ	< 1.43E-06 U	< 1.24E-06 U	< 2.49E-06 U	- -	- -	- -
DIOXIN	1,2,3,6,7,8-HxCDF	- -	0.0953 J	0.318 J	- -	- -	- -	- -	< 5.24E-07 U	0.395 J	< 0.051 U	< 0.0836 U	< 2.70E-06 UJ	< 6.48E-07 U	< 3.05E-07 U	< 7.80E-07 U	- -	- -	- -
DIOXIN	1,2,3,7,8,9-HxCDD	- -	0.355 J	0.891 J	- -	- -	- -	- -	< 1.28E-06 U	1.07 J	< 0.257 U	< 0.402 U	< 2.70E-06 U	< 1.42E-06 U	< 1.21E-06 U	< 2.50E-06 U	- -	- -	- -
DIOXIN	1,2,3,7,8,9-HxCDF	- -	< 0.0365 U	< 0.0448 U	- -	- -	- -	- -	< 9.00E-07 U	< 0.0949 U	< 0.0875 U	< 0.13 U	2.80E-06 J	< 9.51E-07 U	< 5.20E-07 U	< 1.20E-06 U	- -	- -	- -
DIOXIN	1,2,3,7,8-PeCDD	- -	0.129 J	< 0.0916 U	- -	- -	- -	- -	< 1.17E-06 U	0.334 J	< 0.106 U	< 0.207 U	< 2.60E-06 U	< 8.67E-07 U	< 9.16E-07 U	< 1.61E-06 U	- -	- -	- -
DIOXIN	1,2,3,7,8-PeCDF	- -	0.0565 J	< 0.138 U	- -	- -	- -	- -	< 1.30E-06 U	0.391 J	< 0.142 U	< 0.225 U	< 3.50E-06 U	< 9.11E-07 U	< 1.46E-06 U	< 1.46E-06 U	- -	- -	- -
DIOXIN	2,3,4,6,7,8-HxCDF	- -	0.105 J	< 0.0298 U	- -	- -	- -	- -	< 5.85E-07 U	0.413 J	< 0.0596 U	< 0.104 U	< 2.30E-06 U	< 6.72E-07 U	< 3.56E-07 U	< 8.84E-07 U	- -	- -	- -
DIOXIN	2,3,4,7,8-PeCDF	- -	0.119 J	< 0.138 U	- -	- -	- -	- -	< 1.02E-06 U	0.513 J	< 0.131 U	< 0.191 U	2.50E-06 J	< 7.66E-07 U	< 1.10E-06 U	< 1.47E-06 U	- -	- -	- -
DIOXIN	2,3,7,8-TCDD	- -	< 0.0443 U	< 0.0888 U	- -	- -	- -	- -	< 7.96E-07 U	< 0.14 U	< 0.106 U	< 0.249 U	< 2.00E-06 U	< 7.99E-07 U	< 7.55E-07 U	< 1.31E-06 U	- -	- -	- -
DIOXIN	2,3,7,8-TCDF	- -	0.181 J	< 0.123 U	- -	- -	- -	- -	< 4.60E-07 U	0.637 J	0.151 J	< 0.199 U	< 2.40E-06 U	< 5.50E-07 U	< 8.34E-07 U	< 1.25E-06 U	- -	- -	- -
DIOXIN	OCDD	- -	41	152	- -	- -	- -	- -	< 3.70E-06 U	296	2.4 J	2.33 J	2.00E-03	< 4.95E-06 U	3.56E-06 J	< 2.97E-05 UJ	- -	- -	- -
DIOXIN	OCDF	- -	0.928 J	0.884 J	- -	- -	- -	- -	< 2.98E-06 U	15	< 0.358 U	< 0.504 U	6.60E-05 J	5.25E-06 J	< 2.05E-06 U	< 3.95E-06 U	- -	- -	- -
DIOXIN	TCDD TEQ (with DNQ)	- -	0.42	0.26	- -	- -	- -	- -	0	1.34528	0.019	0.0086	5.56E-06	5.25E-10	3.56E-10	0	- -	- -	- -
DIOXIN	TCDD TEQ (no DNQ)	- -	- -	- -	- -	- -	- -	- -	0	- -	- -	- -	3.20E-06	0	0	0	- -	- -	- -
DIOXIN	Total HpCDD	- -	15.5	7.27	- -	- -	- -	- -	< 1.13E-06 U	51.6	0.76	1.85	4.50E-04	< 1.39E-06 U	< 1.30E-06 U	< 2.90E-06 UJ	- -	- -	- -
DIOXIN	Total HpCDF	- -	1.18 J	0.754	- -	- -	- -	- -	< 8.52E-07 U	11.1	< 0.124 U	< 0.16 U	3.20E-05 J	< 1.73E-06 U	< 6.00E-07 U	< 1.67E-06 U	- -	- -	- -
DIOXIN	Total HxCDD	- -	4.46	2.29	- -	- -	- -	- -	< 1.30E-06 U	10.1	< 0.257 U	0.319	6.10E-06 J	< 1.44E-06 U	< 1.23E-06 U	< 2.55E-06 U	- -	- -	- -
DIOXIN	Total HxCDF	- -	1.16	0.855	- -	- -	- -	- -	< 6.20E-07 U	5.88	0.123	< 0.0999 U	3.10E-05 J	< 7.21E-07 U	< 3.67E-07 U	< 9.09E-07 U	- -	- -	- -
DIOXIN	Total PeCDD	- -	0.838	< 0.0916 U	- -	- -	- -	- -	< 1.17E-06 U	3.1	< 0.106 U	< 0.207 U	< 2.6E-06 U	< 8.67E-07 U	< 9.16E-07 U	< 1.61E-06 U	- -	- -	- -
DIOXIN	Total PeCDF	- -	1.27	0.465	- -	- -	- -	- -	< 1.15E-06 U	7.2	< 0.136 U	< 0.207 U	1.60E-05 J	< 8.35E-07 U	< 1.27E-06 U	< 1.47E-06 U	- -	- -	- -
DIOXIN	Total TCDD	- -	0.557	< 0.0888 U	- -	- -	- -	- -	< 7.96E-07 U	1.13	< 0.106 U	< 0.249 U	< 2.00E-06 U	< 7.99E-07 U	< 7.55E-07 U	< 1.31E-06 U	- -	- -	- -
DIOXIN	Total TCDF	- -	1.9	< 0.123 U	- -	- -	- -	- -	< 4.60E-07 U	7.24	0.387	< 0.199 U	< 2.40E-06 U	< 5.50E-07 U	< 8.34E-07 U	< 1.25E-06 U	- -	- -	- -
METALS	Aluminum	- -	- -	- -	- -	- -	- -	- -	- -	9200	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Antimony	0.00023 J	0.15 J	0.13 J	- -	0.00053 J	0.00017 J	< 0.00018 UJ	0.0011 J	< 1.1 U	0.15 J	0.36 J	0.00056 J	< 0.00059 UJ	< 0.004 U	0.00029 J	- -	- -	- -
METALS	Arsenic	0.011	4.9	5.5	- -	< 0.005 U	< 0.005 U	< 0.005 U	0.017	8	13	10	0.006	0.0039 J	0.0042 J	0.011	- -	- -	- -
METALS	Barium	0.13	43	140	- -	0.092	0.028	0.039	0.17	75	96	310	0.19	0.12	0.15	0.082	- -	- -	- -
METALS	Beryllium	0.0011 J	0.34	0.31	- -	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	0.45	0.8	1.1	< 0.002 U	< 0.002 U	< 0.002 U	< 0.002 U	- -	- -	- -
METALS	Boron	0.019 J	3.7	9.5	- -	0.022 J	0.029 J	< 0.025 UJ	0.93	3.7	12	240	0.047 J	0.2	0.18	0.2	- -	- -	- -
METALS	Cadmium	0.00025 J	0.027	0.18	- -	< 0.00024 UJ	0.00009 J	0.000056 J	0.00036 J	0.44	0.52	1.5	< 0.00034 UJ	0.00017 J	0.00032 J	0.00013 J	- -	- -	- -
METALS	Chromium	0.027	6.5	8.5	- -	< 0.005 U	< 0.005 U	< 0.005 U	0.0028 J	14	20	35	< 0.013 UJ	< 0.0021 UJ	< 0.0012 UJ	< 0.0029 UJ	- -	- -	- -
METALS	Cobalt	0.0073 J	2.8	2.9	- -	< 0.01 U	< 0.01 U	< 0.01 U	< 0.01 U	4.1	13	12	0.0066 J	0.0024 J	0.0023 J	< 0.01 U	- -	- -	- -
METALS	Copper	0.021	8.4	13	- -	0.0068	0.0018 J	0.0035	0.031	8.6	14	84	0.0095	< 0.005 UJ	< 0.0071 UJ	0.027	- -	- -	- -
METALS	Iron	27	14000	11000	- -	1.8	0.42	0.79	1.3	15000	27000	33000	12	2.4	1.4	0.57	- -	- -	- -
METALS	Lead	0.018	6	11	- -	0.011	0.00026 J	0.0015	0.0006 J	26	14	14	0.013	0.0012 J	0.0013 J	0.0017	- -	- -	- -
METALS	Lithium	- -	- -	- -	- -	- -	- -	- -	- -	17	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Manganese	0.38	140	300	- -	0.16	0.011 J	0.028	0.042	260	1700	1000	0.91	0.51	0.55	0.15	- -	- -	- -
METALS	Mercury	0.000058 J	0.005 J	0.029 J	- -	< 0.00011 UJ	< 0.0002 U	< 0.0002 UJ	< 0.0002 U	< 0.0041 U	< 0.003 U	0.0035	< 0.0002 U	< 0.0002 U	< 0.0002 UJ	< 0.0002 U	- -	- -	- -
METALS	Molybdenum	- -	- -	- -	- -	- -	- -	- -	- -	< 0.27 U	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Nickel	0.022	4.8	6.5	- -	0.0026 J	< 0.01 U	0.002 J	0.0063 J	11	18	34	< 0.02 UJ	0.0054 J	0.0043 J	< 0.01 U	- -	- -	- -
METALS	Potassium	- -	- -	- -	- -	- -	- -	- -	- -	3700	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Selenium	0.00043 J	< 0.72 UJ	< 0.22 UJ	- -	< 0.002 UJ	< 0.00063 UJ	< 0.002 U	0.084	< 1.4 U	3.2 J	3.8 J	0.0021	0.00091 J	0.011	0.19	- -	- -	- -
METALS	Silver	0.000099 J	0.041	0.059	- -	0.000042 J	< 0.001 U	< 0.001 U	< 0.004 U	< 0.55 U	0.045	0.14	< 0.001 U	< 0.002 U	< 0.002 U	< 0.001 UJ	- -	- -	- -
METALS	Sodium	- -	- -	- -	- -	- -	- -	- -	- -	< 53 UJ	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Thallium	0.00034 J	0.31	0.2	- -	< 0.001 U	< 0.001 U	< 0.001 U	0.00047 J	1.4	0.3	0.34	< 0.00012 UJ	< 0.00016 UJ	< 0.002 U	< 0.001 U	- -	- -	- -
METALS	Vanadium	0.046	19	15	- -	0.0037 J	< 0.01 U	< 0.01 U	0.0046 J	28	40	71	0.022	0.005 J	0.0036 J	< 0.01 U	- -	- -	- -
METALS	Zinc	0.082	29	58	- -	0.035	< 0.02 U	< 0.02 U	< 0.02 U	58	100	250	0.059 J	< 0.02 U	< 0.02 U	< 0.02 U	- -	- -	- -
METALS	Zirconium	- -	- -	- -	- -	- -	- -	- -	- -	2.2	- -	- -	- -	- -	- -	- -	- -	- -	- -
PAH	1-Methylnaphthalene	- -	- -	- -	- -	- -	- -	- -	- -	- -	19 J	19 J	- -	- -	- -	- -	- -	- -	- -
PAH	2-Methylnaphthalene	- -	- -	- -	- -	- -	- -	- -	- -	- -	25	26	- -	- -	- -	- -	- -	- -	- -
PAH	Acenaphthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Acenaphthylene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Anthracene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Benzo(a)anthracene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Benzo(a)pyrene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Benzo(b)fluoranthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Benzo(g,h,i)perylene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 UJ	< 20 UJ	- -	- -	- -	- -	- -	- -	- -
PAH	Benzo(k)fluoranthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -
PAH	Chrysene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	8.2 J	- -	- -	- -	- -	- -	- -	- -
PAH	Dibenzo(a,h)anthracene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	- -	- -

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		CRP-1	FC-1	FC-1	FC-1	FC-1	FC-1	FC-1	KD-1	LFBS54S01	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1
Sample Type		Surface Water	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Sediment	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampling Date		04/04/2006	02/23/2006	02/23/2006	03/03/2006	03/29/2006	04/04/2006	04/14/2006	01/03/2006	01/17/2006	10/07/2005	10/07/2005	10/18/2005	01/01/2006	01/03/2006	01/14/2006	02/19/2006	02/28/2006	03/03/2006
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL077	WL057	WL058	WL064	WL076	WL084	WL087	WL048	WL051	WL010	WL011	WL034	WL037	WL043	WL049	WL052	WL061	WL065
Group	**Constituent**																		
PAH	Fluoranthene	--	--	--	--	--	--	--	--	--	< 20 U	< 20 U	--	--	--	--	--	--	--
PAH	Fluorene	--	--	--	--	--	--	--	--	--	< 20 U	< 20 U	--	--	--	--	--	--	--
PAH	Indeno(1,2,3-cd)pyrene	--	--	--	--	--	--	--	--	--	< 20 U	< 20 U	--	--	--	--	--	--	--
PAH	Naphthalene	--	--	--	--	--	--	--	--	--	71	260	--	--	--	--	--	--	--
PAH	Phenanthrene	--	--	--	--	--	--	--	--	--	26	33	--	--	--	--	--	--	--
PAH	Pyrene	--	--	--	--	--	--	--	--	--	< 20 U	< 20 U	--	--	--	--	--	--	--
SVOC	1,2,4-Trichlorobenzene	--	--	--	--	--	--	--	< 0.95 UJ	--	--	--	< 4 UJ	< 1 U	< 0.96 UJ	--	--	--	--
SVOC	1,2-Dichlorobenzene	--	--	--	--	--	--	--	< 0.48 UJ	--	--	--	< 2 U	< 0.5 U	< 0.48 U	--	--	--	--
SVOC	1,2-Diphenylhydrazine/Azobenzene	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 U	--	--	--	--
SVOC	1,3-Dichlorobenzene	--	--	--	--	--	--	--	< 0.48 UJ	--	--	--	< 2 U	< 0.5 U	< 0.48 U	--	--	--	--
SVOC	1,4-Dichlorobenzene	--	--	--	--	--	--	--	0.11 J	--	--	--	< 2 U	< 0.5 U	< 0.48 U	--	--	--	--
SVOC	2,4,5-Trichlorophenol	--	--	--	--	--	--	--	0.19 J	--	--	--	< 8 U	< 2 U	< 1.9 UJ	--	--	--	--
SVOC	2,4,6-Trichlorophenol	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 U	--	--	--	--
SVOC	2,4-Dichlorophenol	--	--	--	--	--	--	--	< 1.9 U	--	--	--	< 8 U	< 2 U	< 1.9 U	--	--	--	--
SVOC	2,4-Dimethylphenol	--	--	--	--	--	--	--	< 1.9 U	--	--	--	< 8 U	< 2 U	< 1.9 UJ	--	--	--	--
SVOC	2,4-Dinitrophenol	--	--	--	--	--	--	--	< 4.8 UJ	--	--	--	< 20 UJ	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	2,4-Dinitrotoluene	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	2,6-Dinitrotoluene	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	2-Chloronaphthalene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	2-Chlorophenol	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 U	--	--	--	--
SVOC	2-Methylnaphthalene	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 UJ	--	--	--	--
SVOC	2-Methylphenol	--	--	--	--	--	--	--	< 1.9 U	--	--	--	2.6 J	< 2 U	< 1.9 UJ	--	--	--	--
SVOC	2-Nitroaniline	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	2-Nitrophenol	--	--	--	--	--	--	--	< 1.9 UJ	--	--	--	< 8 U	< 2 U	< 1.9 UJ	--	--	--	--
SVOC	3,3-Dichlorobenzidine	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 U	--	--	--	--
SVOC	3-Nitroaniline	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 U	--	--	--	--
SVOC	4,6-Dinitro-2-methylphenol	--	--	--	--	--	--	--	< 4.8 UJ	--	--	--	< 20 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	4-Bromophenyl phenyl ether	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 U	--	--	--	--
SVOC	4-Chloro-3-methylphenol	--	--	--	--	--	--	--	< 1.9 U	--	--	--	< 8 U	< 2 U	< 1.9 U	--	--	--	--
SVOC	4-Chloroaniline	--	--	--	--	--	--	--	< 1.9 U	--	--	--	< 8 U	< 2 U	< 1.9 U	--	--	--	--
SVOC	4-Chlorophenyl phenyl ether	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	4-Methylphenol	--	--	--	--	--	--	--	< 4.8 U	--	--	--	5.5 J	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	4-Nitroaniline	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	4-Nitrophenol	--	--	--	--	--	--	--	< 4.8 UJ	--	--	--	< 20 UJ	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	Acenaphthene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Acenaphthylene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Aniline	--	--	--	--	--	--	--	< 9.5 U	--	--	--	< 40 U	< 10 U	< 9.6 U	--	--	--	--
SVOC	Anthracene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Benzidine	--	--	--	--	--	--	--	< 4.8 UJ	--	--	--	5 R	< 5 UJ	< 4.8 UJ	--	--	--	--
SVOC	Benzo(a)anthracene	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	0.32 J	< 4.8 UJ	--	--	--	--
SVOC	Benzo(a)pyrene	--	--	--	--	--	--	--	< 1.9 U	--	--	--	< 8 U	< 2 U	< 1.9 U	--	--	--	--
SVOC	Benzo(b)fluoranthene	--	--	--	--	--	--	--	0.74 J	--	--	--	< 8 U	< 2 U	< 1.9 U	--	--	--	--
SVOC	Benzo(g,h,i)perylene	--	--	--	--	--	--	--	0.17 J	--	--	--	< 20 U	< 5 U	< 4.8 U	--	--	--	--
SVOC	Benzo(k)fluoranthene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 U	--	--	--	--
SVOC	Benzoic acid	--	--	--	--	--	--	--	4.2 J	--	--	--	85 J	5 J	< 19 UJ	--	--	--	--
SVOC	Benzyl alcohol	--	--	--	--	--	--	--	< 4.8 U	--	--	--	27	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	Bis(2-chloroethoxy)methane	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Bis(2-chloroethyl)ether	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Bis(2-chloroisopropyl)ether	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Bis(2-ethylhexyl)phthalate	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 U	--	--	--	--
SVOC	Butyl benzyl phthalate	--	--	--	--	--	--	--	0.32 J	--	--	--	< 3.2 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	Chrysene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Dibenzo(a,h)anthracene	--	--	--	--	--	--	--	0.63	--	--	--	< 2 UJ	< 0.5 U	< 0.48 U	--	--	--	--
SVOC	Dibenzofuran	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Diethyl phthalate	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 U	--	--	--	--
SVOC	Dimethyl phthalate	--	--	--	--	--	--	--	0.36 J	--	--	--	< 2 U	< 0.5 U	< 0.48 U	--	--	--	--
SVOC	Di-n-butyl phthalate	--	--	--	--	--	--	--	< 1.9 U	--	--	--	< 8 U	0.48 J	< 1.9 U	--	--	--	--
SVOC	Di-n-octyl phthalate	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 UJ	--	--	--	--
SVOC	Fluoranthene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Fluorene	--	--	--	--	--	--	--	< 0.48 U	--	--	--	< 2 U	< 0.5 U	< 0.48 UJ	--	--	--	--
SVOC	Hexachlorobenzene	--	--	--	--	--	--	--	< 0.95 U	--	--	--	< 4 U	< 1 U	< 0.96 U	--	--	--	--
SVOC	Hexachlorobutadiene	--	--	--	--	--	--	--	< 1.9 UJ	--	--	--	< 8 UJ	< 2 U	< 1.9 U	--	--	--	--
SVOC	Hexachlorocyclopentadiene	--	--	--	--	--	--	--	< 4.8 U	--	--	--	< 20 U	< 5 U	< 4.8 U	--	--	--	--
SVOC	Hexachloroethane	--	--	--	--	--	--	--	< 2.9 UJ	--	--	--	< 12 UJ	< 3 U	< 2.9 U	--	--	--	--

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		CRP-1	FC-1	FC-1	FC-1	FC-1	FC-1	FC-1	KD-1	LFBS54S01	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	PCC-1
Sample Type		Surface Water	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Sediment	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water
Sampling Date		04/04/2006	02/23/2006	02/23/2006	03/03/2006	03/29/2006	04/04/2006	04/14/2006	01/03/2006	01/17/2006	10/07/2005	10/07/2005	10/18/2005	01/01/2006	01/03/2006	01/14/2006	02/19/2006	02/28/2006	03/03/2006
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL077	WL057	WL058	WL064	WL076	WL084	WL087	WL048	WL051	WL010	WL011	WL034	WL037	WL043	WL049	WL052	WL061	WL065
Group	**Constituent**																		
SVOC	Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	< 8 U	< 2 U	< 1.9 U	- -	- -	- -	- -
SVOC	Isophorone	- -	- -	- -	- -	- -	- -	- -	< 0.95 UJ	- -	- -	- -	< 4 U	< 1 UJ	< 0.96 UJ	- -	- -	- -	- -
SVOC	Naphthalene	- -	- -	- -	- -	- -	- -	- -	< 0.95 U	- -	- -	- -	< 4 U	< 1 U	< 0.96 UJ	- -	- -	- -	- -
SVOC	Nitrobenzene	- -	- -	- -	- -	- -	- -	- -	< 0.95 U	- -	- -	- -	< 4 U	< 1 U	< 0.96 U	- -	- -	- -	- -
SVOC	N-Nitrosodimethylamine	- -	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	< 8 U	< 2 U	< 1.9 UJ	- -	- -	- -	- -
SVOC	N-Nitroso-di-n-propylamine	- -	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	< 8 U	< 2 U	< 1.9 UJ	- -	- -	- -	- -
SVOC	N-Nitrosodiphenylamine	- -	- -	- -	- -	- -	- -	- -	< 0.95 U	- -	- -	- -	< 4 U	< 1 U	< 0.96 UJ	- -	- -	- -	- -
SVOC	Pentachlorophenol	- -	- -	- -	- -	- -	- -	- -	< 1.9 UJ	- -	- -	- -	< 8 U	< 2 U	< 1.9 UJ	- -	- -	- -	- -
SVOC	Phenanthrene	- -	- -	- -	- -	- -	- -	- -	< 0.48 U	- -	- -	- -	< 2 U	< 0.5 U	< 0.48 UJ	- -	- -	- -	- -
SVOC	Phenol	- -	- -	- -	- -	- -	- -	- -	< 0.95 U	- -	- -	- -	14	< 1 U	< 0.96 U	- -	- -	- -	- -
SVOC	Pyrene	- -	- -	- -	- -	- -	- -	- -	< 0.48 U	- -	- -	- -	< 2 U	< 0.5 U	< 0.48 U	- -	- -	- -	- -
WETCHEM	Ammonia-N	0.84	2.8	7.1	- -	0.56 J	0.84	< 0.5 U	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
WETCHEM	Ammonia-NH3	- -	- -	- -	- -	- -	- -	- -	- -	- -	10	8.7	- -	- -	- -	- -	- -	- -	- -
WETCHEM	Nitrate/Nitrite-N	0.17	< 1.5 U	2.4	3.9	3.9	4.5	5.5	- -	- -	- -	- -	- -	- -	- -	- -	< 0.3 U	1.6	1.1
WETCHEM	Sulfate	- -	- -	- -	- -	- -	- -	- -	- -	- -	17000	6200	- -	- -	- -	- -	- -	- -	- -
WETCHEM	Surfactants (MBAS)	- -	- -	- -	- -	- -	- -	- -	0.13 J	- -	3.1 J	1.7 J	0.16	0.063 J	0.065 J	- -	- -	- -	- -
WETCHEM	Total Cyanide	- -	- -	- -	- -	- -	- -	- -	< 0.005 U	- -	1.4	3.9	0.0061	0.0023 J	0.0026 J	- -	- -	- -	- -
WETCHEM	pH	7.53	6.39	7.68	5.92	6.53	5.65	6.82	- -	- -	- -	- -	- -	- -	- -	- -	7.47	8.12	7.47
WETCHEM	Total Suspended Solids	290	- -	- -	37	63	< 10 U	85	- -	- -	- -	- -	- -	- -	- -	- -	61	190	26

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	RP-1	RP-1	RP-1	RP-1	SC-1	SC-1	SC-1	SC-1	SJBC-1	SJBC-2	SORP-1	SSM-1	SSM-1
Sample Type		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Surface Water	Surface Water	Surface Water	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Soil	Ash
Sampling Date		03/11/2006	03/28/2006	04/04/2006	04/14/2006	05/22/2006	10/06/2005	01/02/2006	03/28/2006	04/04/2006	10/10/2005	10/10/2005	01/02/2006	01/03/2006	01/03/2006	01/03/2006	02/23/2006	10/13/2005	10/13/2005
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL069	WL075	WL078	WL085	WL089	WL006	WL041	WL073	WL081	WL012	WL013	WL039	WL045	WL046	WL047	WL056	WL022	WL023
Group	**Constituent**																		
DIOXIN	1,2,3,4,6,7,8-HpCDD	- -	- -	- -	- -	- -	0.694 J	5.70E-05 J	- -	- -	0.957 J	2.88	4.51E-04	5.22E-05	< 1.08E-06 U	1.41E-05 J	- -	1.4 J	1.97 J
DIOXIN	1,2,3,4,6,7,8-HpCDF	- -	- -	- -	- -	- -	< 0.182 UJ	1.84E-05 J	- -	- -	< 0.234 UJ	< 0.412 UJ	1.23E-04	1.44E-05 J	< 9.43E-07 U	2.71E-06 J	- -	< 0.244 UJ	< 0.0913 U
DIOXIN	1,2,3,4,7,8,9-HpCDF	- -	- -	- -	- -	- -	< 0.0614 U	< 4.18E-06 U	- -	- -	< 0.0859 U	< 0.0675 U	8.22E-06 J	< 1.46E-06 U	< 8.25E-07 U	< 6.01E-07 U	- -	< 0.139 U	< 0.109 U
DIOXIN	1,2,3,4,7,8-HxCDD	- -	- -	- -	- -	- -	< 0.0826 U	< 5.54E-06 U	- -	- -	< 0.204 U	< 0.174 U	9.72E-06 J	1.50E-06 J	< 1.43E-06 U	< 1.69E-06 U	- -	< 0.286 U	< 0.242 U
DIOXIN	1,2,3,4,7,8-HxCDF	- -	- -	- -	- -	- -	< 0.0492 U	< 3.57E-06 U	- -	- -	< 0.0555 U	< 0.115 U	2.19E-05 J	< 1.96E-06 UJ	< 5.85E-07 U	9.18E-07 J	- -	0.079 J	< 0.0687 U
DIOXIN	1,2,3,6,7,8-HxCDD	- -	- -	- -	- -	- -	0.221 J	< 2.40E-05 UJ	- -	- -	< 0.201 U	< 0.367 U	2.59E-05	2.57E-06 J	< 1.40E-06 U	< 1.76E-06 U	- -	0.145 J	< 0.263 U
DIOXIN	1,2,3,6,7,8-HxCDF	- -	- -	- -	- -	- -	0.0668 J	< 3.22E-06 U	- -	- -	< 0.0517 U	< 0.107 U	2.31E-05 J	2.60E-06 J	< 5.48E-07 U	5.79E-07 J	- -	< 0.0674 U	< 0.0654 U
DIOXIN	1,2,3,7,8,9-HxCDD	- -	- -	- -	- -	- -	0.232 J	2.43E-05 J	- -	- -	< 0.191 U	< 0.266 UJ	2.09E-05 J	< 2.36E-06 UJ	< 1.39E-06 U	< 1.68E-06 U	- -	< 0.274 U	< 0.254 U
DIOXIN	1,2,3,7,8,9-HxCDF	- -	- -	- -	- -	- -	< 0.0433 U	< 4.28E-06 U	- -	- -	< 0.0893 U	< 0.195 U	5.88E-06 J	< 1.20E-06 U	< 8.97E-07 U	< 5.69E-07 U	- -	< 0.101 U	< 0.101 U
DIOXIN	1,2,3,7,8-PeCDD	- -	- -	- -	- -	- -	< 0.0869 U	< 6.29E-06 U	- -	- -	< 0.108 U	< 0.227 U	6.97E-06 J	< 8.73E-07 UJ	< 1.07E-06 U	< 1.09E-06 U	- -	< 0.0887 U	< 0.11 U
DIOXIN	1,2,3,7,8-PeCDF	- -	- -	- -	- -	- -	< 0.0942 U	< 6.96E-06 U	- -	- -	< 0.149 U	< 0.277 U	1.63E-05 J	1.96E-06 J	< 1.26E-06 U	< 9.10E-07 U	- -	< 0.145 U	< 0.159 U
DIOXIN	2,3,4,6,7,8-HxCDF	- -	- -	- -	- -	- -	< 0.0516 U	< 3.11E-06 U	- -	- -	< 0.0564 U	< 0.126 U	3.32E-05	3.64E-06 J	< 6.20E-07 U	8.52E-07 J	- -	< 0.063 UJ	< 0.0698 U
DIOXIN	2,3,4,7,8-PeCDF	- -	- -	- -	- -	- -	< 0.083 U	< 6.28E-06 U	- -	- -	< 0.141 U	< 0.248 U	4.83E-05	4.65E-06 J	< 1.08E-06 U	1.06E-06 J	- -	< 0.125 U	< 0.139 U
DIOXIN	2,3,7,8-TCDD	- -	- -	- -	- -	- -	< 0.0609 U	< 4.14E-06 U	- -	- -	< 0.129 U	< 0.208 U	1.66E-06 J	< 4.96E-07 U	< 1.13E-06 U	< 6.89E-07 U	- -	< 0.107 U	< 0.141 U
DIOXIN	2,3,7,8-TCDF	- -	- -	- -	- -	- -	< 0.0791 U	4.18E-06 J	- -	- -	< 0.13 UJ	< 0.162 U	3.22E-05	3.84E-06 J	< 7.93E-07 U	< 5.01E-07 U	- -	< 0.109 U	< 0.112 U
DIOXIN	OCDD	- -	- -	- -	- -	- -	4.81 J	3.62E-04	- -	- -	5.91	13.6	3.21E-03	3.78E-04	7.68E-06 J	1.10E-04	- -	8.65	9.52
DIOXIN	OCDF	- -	- -	- -	- -	- -	< 0.595 U	3.62E-05 J	- -	- -	< 0.545 U	< 0.709 UJ	1.71E-04	4.69E-05 J	< 2.41E-06 U	7.70E-06 J	- -	< 0.527 U	< 0.47 U
DIOXIN	TCDD TEQ (with DNQ)	- -	- -	- -	- -	- -	0.059	3.64E-06	- -	- -	0.01	0.03016	5.70E-05	4.55E-06	7.68E-10	9.45E-07	- -	0.037	0.021
DIOXIN	TCDD TEQ (no DNQ)	- -	- -	- -	- -	- -	- -	3.62E-08	- -	- -	- -	- -	3.94E-05	5.60E-07	0	1.10E-08	- -	- -	- -
DIOXIN	Total HpCDD	- -	- -	- -	- -	- -	1.5	1.19E-04	- -	- -	2.31	6.38	9.70E-04	1.15E-04	< 1.08E-06 U	2.84E-05	- -	3.01	3.72
DIOXIN	Total HpCDF	- -	- -	- -	- -	- -	< 0.182 U	3.08E-05	- -	- -	< 0.553 U	0.84	2.51E-04	2.75E-05	< 8.81E-07 U	7.01E-06	- -	< 0.491 U	< 0.0994 U
DIOXIN	Total HxCDD	- -	- -	- -	- -	- -	0.602	5.04E-05	- -	- -	0.25	2.47	2.64E-04	2.74E-05	< 1.41E-06 U	2.78E-06	- -	0.942	0.966
DIOXIN	Total HxCDF	- -	- -	- -	- -	- -	0.176 J	2.05E-05	- -	- -	0.551	0.23	4.20E-04	3.99E-05	< 6.49E-07 U	3.39E-06	- -	0.251	< 0.0755 U
DIOXIN	Total PeCDD	- -	- -	- -	- -	- -	< 0.0869 U	< 6.29E-06 U	- -	- -	< 0.108 U	0.607	7.63E-05	4.83E-06	< 1.07E-06 U	< 1.09E-06 U	- -	< 0.133 U	< 0.121 U
DIOXIN	Total PeCDF	- -	- -	- -	- -	- -	0.0916	1.22E-05	- -	- -	< 0.493 U	0.3	6.69E-04	6.09E-05	< 1.17E-06 U	1.06E-06	- -	0.119	< 0.148 U
DIOXIN	Total TCDD	- -	- -	- -	- -	- -	< 0.0609 U	< 4.14E-06 U	- -	- -	< 0.129 U	0.408	3.24E-05	1.34E-06	< 1.13E-06 U	6.03E-06	- -	< 0.107 U	0.179
DIOXIN	Total TCDF	- -	- -	- -	- -	- -	< 0.0791 U	1.73E-05	- -	- -	< 0.13 U	1.14	5.52E-04 J	4.99E-05	< 7.93E-07 U	8.65E-07	- -	0.287	< 0.112 U
METALS	Aluminum	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Antimony	- -	0.000062 J	0.00037 J	< 0.00024 UJ	< 0.00012 UJ	0.037	< 0.00022 UJ	0.00022 J	< 0.004 UJ	0.056 J	0.5 J	< 0.00028 UJ	0.00074 J	< 0.004 U	0.00039 J	- -	0.053 J	0.12 J
METALS	Arsenic	- -	< 0.0057 UJ	0.023	0.02	< 0.005 U	4	0.045	0.031	0.024	5.5	< 2.4 U	0.13	0.027	0.0095	0.013	- -	5.1	3.1
METALS	Barium	- -	0.059	0.21	0.29	0.073	58	2	0.49	0.5	230	370	6.9	0.95	0.056	0.081	- -	48	180
METALS	Beryllium	- -	< 0.002 U	0.002	0.0024	< 0.002 U	0.39	0.013	0.0038	0.0032	< 0.81 U	< 0.81 U	0.0099 J	0.0014 J	< 0.002 U	< 0.002 U	- -	0.34	0.41
METALS	Boron	- -	0.16	0.057 J	< 0.037 UJ	0.15 J	< 1 U	< 0.11 UJ	0.026 J	0.044 J	< 4 U	120	0.24 J	0.088	0.42	0.47	- -	< 1 U	77
METALS	Cadmium	- -	< 0.001 UJ	0.00053 J	0.00052 J	0.00029 J	0.063 J	0.002	0.00041 J	0.00062 J	0.046	0.12	0.0046	0.0011	0.00025 J	0.00038 J	- -	0.072	0.65
METALS	Chromium	- -	< 0.005 U	0.044	0.077	< 0.005 U	17	0.43	0.16	0.11	14	13	0.35	0.04	0.0073	0.017	- -	9.7	13
METALS	Cobalt	- -	< 0.01 U	0.015	0.028	< 0.01 U	4.8	0.12	0.036	0.03	12	7	0.32	0.038	0.0021 J	0.0046 J	- -	3.3	3.3
METALS	Copper	- -	0.0086	0.026	0.018	0.0049	7.3	0.058	0.033	0.035	24	38	0.32	0.11	0.022	0.028	- -	5.6	27
METALS	Iron	- -	1.1	49	67	0.5	14000	300	110	90	32000	19000	460	62	3.7	12	- -	11000	11000
METALS	Lead	- -	0.00061 J	0.037	0.021	0.00031 J	6	0.092	0.034	0.047	6.4	42	0.53	0.12	0.0013 J	0.004	- -	5.3	16
METALS	Lithium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Manganese	- -	0.22	1.1	1.6	0.58	220	6.4	1.8	1.5	500	670	17	2.2	0.057	0.12	- -	190	270
METALS	Mercury	- -	< 0.0002 UJ	0.000083 J	< 0.0002 U	< 0.0002 U	< 0.0063 UJ	0.00036	< 0.0002 UJ	0.00012 J	< 0.003 U	< 0.003 U	0.0012	0.00019 J	< 0.0002 U	< 0.0002 U	- -	< 0.003 U	< 0.0031 U
METALS	Molybdenum	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Nickel	- -	0.0036 J	0.035	0.046	0.0031 J	11	0.29	0.12	0.071	9.7	11	0.33	0.043	0.006 J	0.015	- -	7.8	15
METALS	Potassium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Selenium	- -	0.0021 J	0.0012 J	0.00061 J	0.0023	0.26	0.00088 J	< 0.002 UJ	0.00092 J	< 0.2 UJ	0.25 J	0.0029	0.0016 J	0.057	0.073	- -	< 0.29 UJ	< 0.63 UJ
METALS	Silver	- -	< 0.001 U	0.00014 J	0.000097 J	< 0.001 UJ	< 0.02 U	0.00097 J	0.00024 J	0.00026 J	0.043 J	0.23 J	0.0022	0.00048 J	< 0.002 U	< 0.001 U	- -	0.029 J	0.11 J
METALS	Sodium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Thallium	- -	< 0.001 U	0.00048 J	0.00021 J	< 0.001 U	0.21	0.0012	0.0005 J	0.00092 J	0.42	0.18	0.0014	< 0.00048 UJ	< 0.002 U	0.000096 J	- -	0.18	0.22
METALS	Vanadium	- -	< 0.01 U	0.077	0.1	< 0.01 U	28	0.65	0.25	0.19	80	49	1.2	0.17	0.009 J	0.028	- -	18	23
METALS	Zinc	- -	< 0.02 U	0.16	0.19	< 0.02 U	44	0.93	0.3	0.25	87	120	2	0.26	0.01 J	0.045	- -	33	110
METALS	Zirconium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
PAH	1-Methylnaphthalene	- -	- -	- -	- -	- -	16 J	- -	- -	- -	< 20 U	23	- -	- -	- -	- -	- -	24	21
PAH	2-Methylnaphthalene	- -	- -	- -	- -	- -	18 J	- -	- -	- -	9.6 J	31	- -	- -	- -	- -	- -	31	30
PAH	Acenaphthene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Acenaphthylene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Anthracene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Benzo(a)anthracene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Benzo(a)pyrene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Benzo(b)fluoranthene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Benzo(g,h,i)perylene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Benzo(k)fluoranthene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Chrysene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	34
PAH	Dibenzo(a,h)anthracene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	RP-1	RP-1	RP-1	RP-1	SC-1	SC-1	SC-1	SC-1	SJBC-1	SJBC-2	SORP-1	SSM-1	SSM-1
Sample Type		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Surface Water	Surface Water	Surface Water	Soil	Ash	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Soil	Ash
Sampling Date		03/11/2006	03/28/2006	04/04/2006	04/14/2006	05/22/2006	10/06/2005	01/02/2006	03/28/2006	04/04/2006	10/10/2005	10/10/2005	01/02/2006	01/03/2006	01/03/2006	01/03/2006	02/23/2006	10/13/2005	10/13/2005
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL069	WL075	WL078	WL085	WL089	WL006	WL041	WL073	WL081	WL012	WL013	WL039	WL045	WL046	WL047	WL056	WL022	WL023
Group	**Constituent**																		
PAH	Fluoranthene	- -	- -	- -	- -	- -	11 J	- -	- -	- -	8.2 J	12 J	- -	- -	- -	- -	- -	13 J	32
PAH	Fluorene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	9 J	< 21 U
PAH	Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	- -	< 20 U	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	- -	< 21 U	< 21 U
PAH	Naphthalene	- -	- -	- -	- -	- -	41	- -	- -	- -	34	250	- -	- -	- -	- -	- -	100	580
PAH	Phenanthrene	- -	- -	- -	- -	- -	19 J	- -	- -	- -	21	57	- -	- -	- -	- -	- -	39	220
PAH	Pyrene	- -	- -	- -	- -	- -	8.5 J	- -	- -	- -	< 20 U	9.9 J	- -	- -	- -	- -	- -	17 J	14 J
SVOC	1,2,4-Trichlorobenzene	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 UJ	< 0.95 UJ	< 1.1 UJ	- -	- -	- -
SVOC	1,2-Dichlorobenzene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 U	< 0.48 UJ	< 0.53 UJ	- -	- -	- -
SVOC	1,2-Diphenylhydrazine/Azobenzene	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	1,3-Dichlorobenzene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 U	< 0.48 UJ	< 0.53 UJ	- -	- -	- -
SVOC	1,4-Dichlorobenzene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 U	0.11 J	0.17 J	- -	- -	- -
SVOC	2,4,5-Trichlorophenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	2,4,6-Trichlorophenol	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 UJ	< 1.1 UJ	- -	- -	- -
SVOC	2,4-Dichlorophenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 U	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	2,4-Dimethylphenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	2,4-Dinitrophenol	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 UJ	< 5.3 UJ	- -	- -	- -
SVOC	2,4-Dinitrotoluene	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	2,6-Dinitrotoluene	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	2-Chloronaphthalene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	2-Chlorophenol	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	2-Methylnaphthalene	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 UJ	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	2-Methylphenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	2-Nitroaniline	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	2-Nitrophenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 UJ	< 2.1 UJ	- -	- -	- -
SVOC	3,3-Dichlorobenzidine	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 U	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	3-Nitroaniline	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 U	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	4,6-Dinitro-2-methylphenol	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 UJ	< 5.3 UJ	- -	- -	- -
SVOC	4-Bromophenyl phenyl ether	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	4-Chloro-3-methylphenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 U	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	4-Chloroaniline	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 U	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	4-Chlorophenyl phenyl ether	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	4-Methylphenol	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	0.28 J	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	4-Nitroaniline	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	4-Nitrophenol	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 UJ	< 5.3 UJ	- -	- -	- -
SVOC	Acenaphthene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Acenaphthylene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Aniline	- -	- -	- -	- -	- -	- -	< 9.7 U	- -	- -	- -	- -	< 10 U	< 9.4 U	< 9.5 U	< 11 U	- -	- -	- -
SVOC	Anthracene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Benzidine	- -	- -	- -	- -	- -	- -	< 4.9 UJ	- -	- -	- -	- -	< 5 UJ	< 4.7 UJ	< 4.8 UJ	< 5.3 UJ	- -	- -	- -
SVOC	Benzo(a)anthracene	- -	- -	- -	- -	- -	- -	0.31 J	- -	- -	- -	- -	< 5 U	0.4 J	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	Benzo(a)pyrene	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	0.25 J	0.21 J	< 2.1 U	- -	- -	- -
SVOC	Benzo(b)fluoranthene	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 U	0.82 J	< 2.1 U	- -	- -	- -
SVOC	Benzo(g,h,i)perylene	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 U	0.57 J	< 5.3 U	- -	- -	- -
SVOC	Benzo(k)fluoranthene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 U	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Benzoic acid	- -	- -	- -	- -	- -	- -	4.9 J	- -	- -	- -	- -	4.5 J	29 J	4.8 J	5.5 J	- -	- -	- -
SVOC	Benzyl alcohol	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	5.2 J	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	Bis(2-chloroethoxy)methane	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Bis(2-chloroethyl)ether	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Bis(2-chloroisopropyl)ether	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Bis(2-ethylhexyl)phthalate	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 U	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	Butyl benzyl phthalate	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 UJ	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	Chrysene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Dibenzo(a,h)anthracene	- -	- -	- -	- -	- -	- -	< 0.56 UJ	- -	- -	- -	- -	< 0.58 UJ	< 0.47 UJ	0.93	< 0.53 U	- -	- -	- -
SVOC	Dibenzofuran	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Diethyl phthalate	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 U	< 1.4 UJ	- -	- -	- -
SVOC	Dimethyl phthalate	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	0.36 J	< 0.47 U	0.34 J	0.4 J	- -	- -	- -
SVOC	Di-n-butyl phthalate	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	0.26 J	< 1.9 U	0.51 J	- -	- -	- -
SVOC	Di-n-octyl phthalate	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	0.47 J	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	Fluoranthene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Fluorene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Hexachlorobenzene	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	Hexachlorobutadiene	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 U	< 1.9 UJ	< 2.1 UJ	- -	- -	- -
SVOC	Hexachlorocyclopentadiene	- -	- -	- -	- -	- -	- -	< 4.9 U	- -	- -	- -	- -	< 5 U	< 4.7 U	< 4.8 U	< 5.3 U	- -	- -	- -
SVOC	Hexachloroethane	- -	- -	- -	- -	- -	- -	< 2.9 U	- -	- -	- -	- -	< 3 U	< 2.8 U	< 2.9 UJ	< 3.2 UJ	- -	- -	- -

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		PCC-1	PCC-1	PCC-1	PCC-1	PCC-1	RP-1	RP-1	RP-1	RP-1	SC-1	SC-1	SC-1	SC-1	SJBC-1	SJBC-2	SORP-1	SSM-1	SSM-1
Sample Type		**Surface Water**	**Surface Water**	**Surface Water**	**Surface Water**	**Surface Water**	**Soil**	**Surface Water**	**Surface Water**	**Surface Water**	**Soil**	**Ash**	**Surface Water**	**Surface Water**	**Surface Water**	**Surface Water**	**Soil**	**Soil**	**Ash**
Sampling Date		**03/11/2006**	**03/28/2006**	**04/04/2006**	**04/14/2006**	**05/22/2006**	**10/06/2005**	**01/02/2006**	**03/28/2006**	**04/04/2006**	**10/10/2005**	**10/10/2005**	**01/02/2006**	**01/03/2006**	**01/03/2006**	**01/03/2006**	**02/23/2006**	**10/13/2005**	**10/13/2005**
Location		**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**	**Drainage**
EPA Identification		**WL069**	**WL075**	**WL078**	**WL085**	**WL089**	**WL006**	**WL041**	**WL073**	**WL081**	**WL012**	**WL013**	**WL039**	**WL045**	**WL046**	**WL047**	**WL056**	**WL022**	**WL023**
Group	**Constituent**																		
SVOC	Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	0.58 J	0.4 J	< 2.1 U	- -	- -	- -
SVOC	Isophorone	- -	- -	- -	- -	- -	- -	< 0.97 UJ	- -	- -	- -	- -	< 1 UJ	0.36 J	0.095 J	0.13 J	- -	- -	- -
SVOC	Naphthalene	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 UJ	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	Nitrobenzene	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 U	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	N-Nitrosodimethylamine	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	N-Nitroso-di-n-propylamine	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 U	< 2.1 U	- -	- -	- -
SVOC	N-Nitrosodiphenylamine	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	< 0.94 UJ	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	Pentachlorophenol	- -	- -	- -	- -	- -	- -	< 1.9 U	- -	- -	- -	- -	< 2 U	< 1.9 UJ	< 1.9 UJ	< 2.1 UJ	- -	- -	- -
SVOC	Phenanthrene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 UJ	< 0.48 U	< 0.53 U	- -	- -	- -
SVOC	Phenol	- -	- -	- -	- -	- -	- -	< 0.97 U	- -	- -	- -	- -	< 1 U	0.77 J	< 0.95 U	< 1.1 U	- -	- -	- -
SVOC	Pyrene	- -	- -	- -	- -	- -	- -	< 0.49 U	- -	- -	- -	- -	< 0.5 U	< 0.47 U	< 0.48 U	< 0.53 U	- -	- -	- -
WETCHEM	Ammonia-N	- -	0.56 J	< 0.5 U	< 0.5 U	< 0.5 U	- -	- -	< 0.5 U	0.56	- -	- -	- -	- -	- -	- -	- -	- -	- -
WETCHEM	Ammonia-NH3	- -	- -	- -	- -	- -	2.1	- -	- -	- -	8.7	14	- -	- -	- -	- -	- -	3.5	23
WETCHEM	Nitrate/Nitrite-N	0.53	< 0.75 U	0.86	0.16	0.11 J	- -	- -	0.68	0.2	- -	- -	- -	- -	- -	- -	2.8	- -	- -
WETCHEM	Sulfate	- -	- -	- -	- -	- -	150	- -	- -	- -	170	3700	- -	- -	- -	- -	- -	140	2400
WETCHEM	Surfactants (MBAS)	- -	- -	- -	- -	- -	< 5 UJ	< 1 U	- -	- -	4.8 J	30 J	0.088 J	< 0.1 U	0.29 J	< 0.5 UJ	- -	< 5.1 UJ	3.2 J
WETCHEM	Total Cyanide	- -	- -	- -	- -	- -	0.64	0.003 J	- -	- -	< 0.5 U	2.9	0.015	0.0063	0.0046 J	0.0046 J	- -	0.73	2.4
WETCHEM	pH	7.92	7.43	8.15	8.09	7.61	- -	- -	6.97	7.51	- -	- -	- -	- -	- -	- -	8.61	- -	- -
WETCHEM	Total Suspended Solids	15	240	990	1400	< 10 U	- -	- -	3900	2100	- -	- -	- -	- -	- -	- -	- -	- -	- -

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	WC-1	WC-1	WC-1	WCWP-1	WCWP-1	WCWP-1	Upstream-001	Upstream-001	Upstream-002	Upstream-002
Sample Type		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Ash	Surface Water	Soil	Surface Water	Surface Water	Soil	Ash	Soil	Ash
Sampling Date		10/18/2005	01/01/2006	01/03/2006	02/28/2006	03/03/2006	03/11/2006	03/28/2006	04/04/2006	05/22/2006	10/10/2005	10/10/2005	10/18/2005	02/23/2006	03/03/2006	04/05/2006	10/06/2005	10/06/2005	10/06/2005	10/06/2005
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL032	WL036	WL042	WL060	WL066	WL071	WL072	WL082	WL088	WL015	WL014	WL035	WL055	WL068	WL083	WL002	WL001	WL004	WL005
Group	**Constituent**																			
DIOXIN	1,2,3,4,6,7,8-HpCDD	3.50E-05 J	5.76E-06 J	3.96E-05	- -	- -	- -	- -	- -	- -	5.27	95.1	6.40E-05	- -	- -	- -	2.71	2.33 J	2.46 J	48.5
DIOXIN	1,2,3,4,6,7,8-HpCDF	5.00E-06 J	3.92E-06 J	3.94E-06 J	- -	- -	- -	- -	- -	- -	< 0.0661 U	1.83 J	< 2.10E-05 UJ	- -	- -	- -	0.431 J	0.365 J	0.324 J	1.65 J
DIOXIN	1,2,3,4,7,8,9-HpCDF	< 2.20E-06 U	< 1.49E-06 U	< 5.19E-07 U	- -	- -	- -	- -	- -	- -	< 0.0708 U	< 0.22 U	< 2.30E-06 U	- -	- -	- -	< 0.123 U	< 0.118 U	< 0.0838 U	< 0.167 UJ
DIOXIN	1,2,3,4,7,8-HxCDD	< 1.40E-06 U	< 1.31E-06 U	< 1.46E-06 U	- -	- -	- -	- -	- -	- -	0.286 J	6.67	< 1.70E-06 UJ	- -	- -	- -	< 0.138 U	0.129 J	< 0.158 U	0.846 J
DIOXIN	1,2,3,4,7,8-HxCDF	< 1.60E-06 UJ	< 5.33E-07 U	< 3.97E-07 U	- -	- -	- -	- -	- -	- -	< 0.0598 U	0.357 J	< 2.10E-06 UJ	- -	- -	- -	< 0.126 U	< 0.101 UJ	< 0.0823 UJ	0.286 J
DIOXIN	1,2,3,6,7,8-HxCDD	2.30E-06 J	< 1.32E-06 U	3.06E-06 J	- -	- -	- -	- -	- -	- -	0.535 J	10.2	5.90E-06 J	- -	- -	- -	0.159 J	0.264 J	0.207 J	2.11 J
DIOXIN	1,2,3,6,7,8-HxCDF	< 1.40E-06 U	< 5.13E-07 U	< 3.84E-07 U	- -	- -	- -	- -	- -	- -	< 0.056 U	0.379 J	< 2.40E-06 UJ	- -	- -	- -	< 0.0945 U	< 0.0777 UJ	< 0.0719 UJ	0.243 J
DIOXIN	1,2,3,7,8,9-HxCDD	< 1.80E-06 U	< 1.29E-06 U	< 1.45E-06 U	- -	- -	- -	- -	- -	- -	0.565 J	12.4	< 1.70E-06 UJ	- -	- -	- -	< 0.133 UJ	0.262 J	0.245 J	1.6 J
DIOXIN	1,2,3,7,8,9-HxCDF	< 2.30E-06 U	< 7.92E-07 U	< 6.13E-07 U	- -	- -	- -	- -	- -	- -	< 0.0895 U	< 0.307 U	< 1.00E-06 U	- -	- -	- -	< 0.0694 U	< 0.0707 U	< 0.079 U	0.125 J
DIOXIN	1,2,3,7,8-PeCDD	< 2.40E-06 U	< 7.63E-07 U	< 8.02E-07 U	- -	- -	- -	- -	- -	- -	0.379 J	9.61	< 2.10E-06 U	- -	- -	- -	< 0.149 U	0.235 J	< 0.0947 UJ	1.02 J
DIOXIN	1,2,3,7,8-PeCDF	< 1.90E-06 U	< 9.94E-07 U	< 1.01E-06 U	- -	- -	- -	- -	- -	- -	< 0.0934 U	0.198 J	< 1.90E-06 U	- -	- -	- -	< 0.0886 U	< 0.0948 UJ	< 0.0709 U	0.209 J
DIOXIN	2,3,4,6,7,8-HxCDF	< 1.80E-06 U	< 5.80E-07 U	< 4.37E-07 U	- -	- -	- -	- -	- -	- -	< 0.063 U	0.433 J	< 1.60E-06 UJ	- -	- -	- -	< 0.126 U	0.0883 J	0.0752 J	< 0.265 UJ
DIOXIN	2,3,4,7,8-PeCDF	< 1.40E-06 U	< 9.34E-07 U	< 9.92E-07 U	- -	- -	- -	- -	- -	- -	< 0.0863 U	0.306 J	< 1.70E-06 UJ	- -	- -	- -	< 0.0805 U	0.173 J	0.0852 J	< 0.231 UJ
DIOXIN	2,3,7,8-TCDD	< 1.70E-0 U	< 6.95E-07 U	< 6.08E-07 U	- -	- -	- -	- -	- -	- -	< 0.179 UJ	3.57 J	< 2.00E-06 U	- -	- -	- -	< 0.133 U	< 0.155 U	< 0.151 U	0.303 J
DIOXIN	2,3,7,8-TCDF	< 1.50E-06 U	< 6.12E-07 U	< 7.95E-07 U	- -	- -	- -	- -	- -	- -	< 0.0895 U	< 0.173 UJ	< 9.60E-07 U	- -	- -	- -	< 0.112 U	0.361 J	< 0.109 U	< 0.165 UJ
DIOXIN	OCDD	1.90E-04	3.66E-05 J	1.27E-03	- -	- -	- -	- -	- -	- -	20.6	232	4.40E-04 J	- -	- -	- -	18.9	10.4	18.3	230
DIOXIN	OCDF	< 1.40E-05 UJ	1.90E-05 J	2.24E-05 J	- -	- -	- -	- -	- -	- -	< 0.413 U	2.28 J	2.40E-05 J	- -	- -	- -	0.98 J	< 0.499 UJ	0.59 J	4.63 J
DIOXIN	TCDD TEQ (with DNQ)	6.49E-07	1.02E-07	8.71E-07	- -	- -	- -	- -	- -	- -	0.57	17.4	1.28E-06	- -	- -	- -	0.049	0.46	0.13	2.4
DIOXIN	TCDD TEQ (no DNQ)	1.90E-08	0.00E+00	5.23E-07	- -	- -	- -	- -	- -	- -	- -	- -	6.84E-07	- -	- -	- -	- -	- -	- -	- -
DIOXIN	Total HpCDD	4.90E-05 J	1.30E-05	1.44E-04	- -	- -	- -	- -	- -	- -	13.4	253	1.10E-04	- -	- -	- -	8.14	5.73	6.59	98.2
DIOXIN	Total HpCDF	1.10E-05 J	3.92E-06	1.33E-05	- -	- -	- -	- -	- -	- -	< 0.068 U	4.93	< 2.10E-06 U	- -	- -	- -	1.34	0.629	0.727	4.25
DIOXIN	Total HxCDD	2.30E-06 J	3.56E-06	1.32E-05	- -	- -	- -	- -	- -	- -	8.62	196	1.80E-05 J	- -	- -	- -	2.67	4.84	3.55	33.7
DIOXIN	Total HxCDF	2.70E-06 J	1.77E-06	8.03E-06	- -	- -	- -	- -	- -	- -	< 0.0659 U	6.27	9.10E-06 J	- -	- -	- -	0.651	0.281	0.566	3.13 J
DIOXIN	Total PeCDD	< 2.40E-06 U	< 7.63E-07 U	< 8.02E-07 U	- -	- -	- -	- -	- -	- -	3.66	117	< 2.10E-06 U	- -	- -	- -	1	2.72	1.45	18.1
DIOXIN	Total PeCDF	< 1.60E-06 U	< 9.63E-07 U	1.58E-06	- -	- -	- -	- -	- -	- -	0.124	4.52	< 1.50E-06 U	- -	- -	- -	0.188	0.727	0.462	3.4
DIOXIN	Total TCDD	< 1.70E-06 U	< 6.95E-07 U	< 6.08E-07 U	- -	- -	- -	- -	- -	- -	2.52	74.5	< 2.00E-06 U	- -	- -	- -	< 0.123 U	1.04	0.107	10.7
DIOXIN	Total TCDF	< 1.50E-06 U	< 6.12E-07 U	< 7.95E-07 U	- -	- -	- -	- -	- -	- -	< 0.276 U	8.97	< 9.60E-07 U	- -	- -	- -	0.211	1.69	0.375	3.99
METALS	Aluminum	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Antimony	< 0.004 U	< 0.00083 UJ	0.00054 J	- -	- -	- -	0.00076 J	0.00036 J	< 0.0002 UJ	0.087 J	0.48 J	0.00042 J	- -	- -	< 0.00026 UJ	0.03	0.064	< 0.061 U	0.085
METALS	Arsenic	< 0.005 U	0.0045 J	< 0.005 U	- -	- -	- -	< 0.0092 UJ	0.007	< 0.005 U	0.89	< 0.61 U	0.012	- -	- -	0.0065	3.3	< 1.2 U	7.8	2.3
METALS	Barium	0.079	0.045	0.071	- -	- -	- -	0.075	0.083	0.012	150	320	0.48	- -	- -	0.12	42	220	84	240
METALS	Beryllium	< 0.002 U	< 0.002 U	< 0.002 U	- -	- -	- -	< 0.002 U	< 0.002 U	< 0.002 U	0.2	< 0.2 U	0.0015 J	- -	- -	0.00097 J	0.27	< 0.4 U	0.64	0.51
METALS	Boron	< 0.05 UJ	0.07	0.075	- -	- -	- -	0.055 J	0.04 J	0.016 J	5.5	76	< 0.055 UJ	- -	- -	0.055 J	1.8	58	6	87
METALS	Cadmium	< 0.000098 UJ	0.00006 J	0.00017 J	- -	- -	- -	0.00013 J	0.00021 J	< 0.001 UJ	0.033	0.079	< 0.0002 UJ	- -	- -	0.0015	0.066 J	0.25 J	0.12	0.15 J
METALS	Chromium	< 0.0063 UJ	< 0.0026 UJ	< 0.0024 UJ	- -	- -	- -	0.0082	0.014	< 0.005 U	3.6	3.8	0.092	- -	- -	0.0094	7	5.3	23	14
METALS	Cobalt	0.0035 J	< 0.01 U	0.0022 J	- -	- -	- -	0.0033 J	0.0036 J	< 0.01 U	4	3.5	0.033	- -	- -	0.008 J	3.1	1.6	11	4
METALS	Copper	0.0099	0.013	0.011	- -	- -	- -	0.01	0.015	0.0028	30	39	0.034	- -	- -	0.015	4.7	21	13	34
METALS	Iron	4.3	1.9	1.5	- -	- -	- -	7.6	12	0.2	11000	8700	51	- -	- -	8.5	9300	5700	28000	12000
METALS	Lead	0.0066	0.0034	0.0097	- -	- -	- -	0.011	0.01	0.00022 J	2.4	9.4	0.019	- -	- -	0.0085	5.1	18	12	15
METALS	Lithium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Manganese	0.27	0.077	0.14	- -	- -	- -	0.19	0.19	0.015 J	210	270	1.8	- -	- -	1	180	310	490	440
METALS	Mercury	< 0.0002 U	< 0.0002 U	< 0.0002 UJ	- -	- -	- -	< 0.0002 UJ	0.000061 J	< 0.0002 U	< 0.003 U	< 0.003 U	< 0.0002 U	- -	- -	< 0.0002 U	< 0.0063 UJ	0.032 J	0.012 J	0.025 J
METALS	Molybdenum	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Nickel	< 0.027 UJ	0.0033 J	0.0039 J	- -	- -	- -	0.0093 J	0.013	< 0.01 U	3.1	4.5	0.083	- -	- -	0.034	< 5.4 UJ	8.6	15	13
METALS	Potassium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Selenium	< 0.004 U	< 0.002 U	< 0.002 U	- -	- -	- -	0.00048 J	0.00049 J	< 0.002 U	0.37 J	0.34 J	0.00075 J	- -	- -	0.0012 J	0.23	0.4	0.54	0.77
METALS	Silver	< 0.002 U	< 0.001 U	< 0.001 U	- -	- -	- -	0.00004 J	0.000074 J	< 0.001 UJ	0.041	0.14	< 0.001 U	- -	- -	0.000045 J	< 0.02 U	0.075	0.041	0.075
METALS	Sodium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
METALS	Thallium	< 0.002 U	< 0.001 U	< 0.00012 UJ	- -	- -	- -	< 0.001 U	0.00015 J	< 0.001 U	0.14	0.16	0.00032 J	- -	- -	< 0.001 U	0.13	0.17	0.44	0.18
METALS	Vanadium	0.0099 J	0.0066 J	0.0059 J	- -	- -	- -	0.015	0.023	< 0.01 U	25	21	0.11	- -	- -	0.027	14	11	44	28
METALS	Zinc	0.063 J	< 0.016 UJ	0.019 J	- -	- -	- -	0.041	0.045	< 0.02 U	35	77	0.18	- -	- -	0.046	30	47	74	140
METALS	Zirconium	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -	- -
PAH	1-Methylnaphthalene	- -	- -	- -	- -	- -	- -	- -	- -	- -	40	75	- -	- -	- -	- -	8.1 J	24	18 J	110
PAH	2-Methylnaphthalene	- -	- -	- -	- -	- -	- -	- -	- -	- -	54	110	- -	- -	- -	- -	12 J	37	24	130
PAH	Acenaphthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	22	- -	- -	- -	- -	< 20 U	< 20 U	< 20 U	< 100 U
PAH	Acenaphthylene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	10 J	- -	- -	- -	- -	< 20 U	< 20 U	13 J	< 100 U
PAH	Anthracene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	22	- -	- -	- -	- -	< 20 U	14 J	< 20 U	< 100 U
PAH	Benzo(a)anthracene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	15 J	17 J	< 20 U	< 100 U
PAH	Benzo(a)pyrene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	< 20 U	13 J	< 20 U	< 100 U
PAH	Benzo(b)fluoranthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	8.6 J	14 J	< 20 U	< 100 U
PAH	Benzo(g,h,i)perylene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	< 20 U	< 20 U	< 20 U	< 100 U
PAH	Benzo(k)fluoranthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	< 20 U	< 20 U	< 20 U	< 100 U
PAH	Chrysene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	10 J	- -	- -	- -	- -	21	88	< 20 U	< 100 U
PAH	Dibenzo(a,h)anthracene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	< 20 UJ	< 20 UJ	< 20 UJ	< 100 U

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	WC-1	WC-1	WC-1	WCWP-1	WCWP-1	WCWP-1	Upstream-001	Upstream-001	Upstream-002	Upstream-002
Sample Type		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Ash	Surface Water	Soil	Surface Water	Surface Water	Soil	Ash	Soil	Ash
Sampling Date		10/18/2005	01/01/2006	01/03/2006	02/28/2006	03/03/2006	03/11/2006	03/28/2006	04/04/2006	05/22/2006	10/10/2005	10/10/2005	10/18/2005	02/23/2006	03/03/2006	04/05/2006	10/06/2005	10/06/2005	10/06/2005	10/06/2005
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL032	WL036	WL042	WL060	WL066	WL071	WL072	WL082	WL088	WL015	WL014	WL035	WL055	WL068	WL083	WL002	WL001	WL004	WL005
Group	**Constituent**																			
PAH	Fluoranthene	- -	- -	- -	- -	- -	- -	- -	- -	- -	17 J	72	- -	- -	- -	- -	36	76	14 J	< 100 U
PAH	Fluorene	- -	- -	- -	- -	- -	- -	- -	- -	- -	9.7 J	16 J	- -	- -	- -	- -	< 20 U	< 20 U	13 J	< 100 U
PAH	Indeno(1,2,3-cd)pyrene	- -	- -	- -	- -	- -	- -	- -	- -	- -	< 20 U	< 20 U	- -	- -	- -	- -	< 20 UJ	< 20 UJ	< 20 UJ	< 100 U
PAH	Naphthalene	- -	- -	- -	- -	- -	- -	- -	- -	- -	170	390	- -	- -	- -	- -	23	270	57	2300
PAH	Phenanthrene	- -	- -	- -	- -	- -	- -	- -	- -	- -	56	240	- -	- -	- -	- -	38	240	41	160
PAH	Pyrene	- -	- -	- -	- -	- -	- -	- -	- -	- -	15 J	39	- -	- -	- -	- -	35	40	14 J	< 100 UJ
SVOC	1,2,4-Trichlorobenzene	< 5 UJ	< 1 UJ	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 UJ	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	1,2-Dichlorobenzene	< 2.5 U	< 0.5 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	1,2-Diphenylhydrazine/Azobenzene	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	1,3-Dichlorobenzene	< 2.5 U	< 0.5 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	1,4-Dichlorobenzene	< 2.5 U	0.1 J	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	2,4,5-Trichlorophenol	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	2,4,6-Trichlorophenol	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	2,4-Dichlorophenol	< 10 U	< 2 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	2,4-Dimethylphenol	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	2,4-Dinitrophenol	< 25 UJ	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 UJ	- -	- -	- -	< 660 UJ	2000 R	< 670 UJ	2000 R
SVOC	2,4-Dinitrotoluene	< 25 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	2,6-Dinitrotoluene	< 25 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	2-Chloronaphthalene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	2-Chlorophenol	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	2-Methylnaphthalene	< 5 U	< 1 UJ	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	2-Methylphenol	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	2-Nitroaniline	< 25 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	2-Nitrophenol	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	3,3-Dichlorobenzidine	< 25 U	< 5 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 830 U	< 2500 U	< 840 U	< 2500 U
SVOC	3-Nitroaniline	< 25 U	< 5 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	4,6-Dinitro-2-methylphenol	< 25 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 420 UJ	1200 R	< 430 UJ	1300 R
SVOC	4-Bromophenyl phenyl ether	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	4-Chloro-3-methylphenol	< 10 U	< 2 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	980 R	< 340 U	990 R
SVOC	4-Chloroaniline	< 10 U	< 2 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	4-Chlorophenyl phenyl ether	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	4-Methylphenol	2.1 J	0.24 J	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	980 R	290 J	990 R
SVOC	4-Nitroaniline	< 25 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 830 U	< 2500 U	< 840 U	< 2500 U
SVOC	4-Nitrophenol	< 25 UJ	0.76 J	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 UJ	- -	- -	- -	< 830 U	2500 R	< 840 U	2500 R
SVOC	Acenaphthene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Acenaphthylene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Aniline	< 50 U	< 10 U	< 9.6 U	- -	- -	- -	- -	- -	- -	- -	- -	< 12 U	- -	- -	- -	< 420 U	< 1200 U	< 430 U	< 1300 U
SVOC	Anthracene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Benzidine	5 R	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	6.2 R	- -	- -	- -	< 660 U	< 2000 U	< 670 U	< 2000 U
SVOC	Benzo(a)anthracene	< 25 U	< 5 UJ	0.33 J	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Benzo(a)pyrene	< 10 U	< 2 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Benzo(b)fluoranthene	< 10 U	< 2 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Benzo(g,h,i)perylene	< 25 U	< 5 U	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 UJ	< 980 UJ	< 340 UJ	< 990 UJ
SVOC	Benzo(k)fluoranthene	< 2.5 U	< 0.5 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Benzoic acid	66 J	< 20 UJ	< 19 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 25 UJ	- -	- -	- -	< 830 U	2500 R	< 840 U	2500 R
SVOC	Benzyl alcohol	< 25 U	0.24 J	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	120 J	< 990 U
SVOC	Bis(2-chloroethoxy)methane	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Bis(2-chloroethyl)ether	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 170 U	< 510 U	< 170 U	< 510 U
SVOC	Bis(2-chloroisopropyl)ether	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Bis(2-ethylhexyl)phthalate	< 25 U	< 5 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Butyl benzyl phthalate	< 3.4 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 1.3 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Chrysene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Dibenzo(a,h)anthracene	< 2.5 UJ	< 0.5 U	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 UJ	- -	- -	- -	< 420 UJ	< 1200 UJ	< 430 UJ	< 1300 UJ
SVOC	Dibenzofuran	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Diethyl phthalate	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	0.2 J	- -	- -	- -	< 330 U	< 980 U	< 340 U	270 J
SVOC	Dimethyl phthalate	< 2.5 U	< 0.5 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Di-n-butyl phthalate	< 10 U	< 2 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	0.32 J	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Di-n-octyl phthalate	< 25 U	< 5 UJ	< 4.8 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Fluoranthene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Fluorene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Hexachlorobenzene	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Hexachlorobutadiene	< 10 UJ	< 2 U	< 1.9 U	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 UJ	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Hexachlorocyclopentadiene	< 25 U	< 5 U	< 4.8 U	- -	- -	- -	- -	- -	- -	- -	- -	< 6.2 U	- -	- -	- -	< 830 U	< 2500 U	< 840 U	< 2500 U
SVOC	Hexachloroethane	< 15 UJ	< 3 U	< 2.9 U	- -	- -	- -	- -	- -	- -	- -	- -	< 3.8 UJ	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U

Table A-3
Post-Topanga Fire Soil, Ash, and Surface Water Drainage Results
Santa Susana Field Laboratory

Sample Identification		SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	SSM-1	WC-1	WC-1	WC-1	WCWP-1	WCWP-1	WCWP-1	Upstream-001	Upstream-001	Upstream-002	Upstream-002
Sample Type		Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Soil	Ash	Surface Water	Soil	Surface Water	Surface Water	Soil	Ash	Soil	Ash
Sampling Date		10/18/2005	01/01/2006	01/03/2006	02/28/2006	03/03/2006	03/11/2006	03/28/2006	04/04/2006	05/22/2006	10/10/2005	10/10/2005	10/18/2005	02/23/2006	03/03/2006	04/05/2006	10/06/2005	10/06/2005	10/06/2005	10/06/2005
Location		Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage	Drainage
EPA Identification		WL032	WL036	WL042	WL060	WL066	WL071	WL072	WL082	WL088	WL015	WL014	WL035	WL055	WL068	WL083	WL002	WL001	WL004	WL005
Group	**Constituent**																			
SVOC	Indeno(1,2,3-cd)pyrene	< 10 U	< 2 U	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Isophorone	0.67 J	0.2 J	0.13 J	- -	- -	- -	- -	- -	- -	- -	- -	0.35 J	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Naphthalene	< 5 U	< 1 UJ	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Nitrobenzene	< 5 U	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	N-Nitrosodimethylamine	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	N-Nitroso-di-n-propylamine	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 250 U	< 740 U	< 250 U	< 750 U
SVOC	N-Nitrosodiphenylamine	< 5 U	< 1 UJ	< 0.96 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Pentachlorophenol	< 10 U	< 2 UJ	< 1.9 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 2.5 U	- -	- -	- -	< 830 UJ	2500 R	< 840 UJ	2500 R
SVOC	Phenanthrene	< 2.5 U	< 0.5 UJ	< 0.48 UJ	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
SVOC	Phenol	4 J	< 1 U	< 0.96 U	- -	- -	- -	- -	- -	- -	- -	- -	< 1.2 U	- -	- -	- -	170 J	980 R	930	580 J
SVOC	Pyrene	< 2.5 U	< 0.5 U	< 0.48 U	- -	- -	- -	- -	- -	- -	- -	- -	< 0.62 U	- -	- -	- -	< 330 U	< 980 U	< 340 U	< 990 U
WETCHEM	Ammonia-N	- -	- -	- -	- -	- -	- -	< 0.5 U	0.56	< 0.5 U	- -	- -	- -	- -	- -	1.1 J	- -	- -	- -	- -
WETCHEM	Ammonia-NH3	- -	- -	- -	- -	- -	- -	- -	- -	- -	4.9	3.3	- -	- -	- -	- -	5.1	12	6.8	8.2
WETCHEM	Nitrate/Nitrite-N	- -	- -	- -	3.7	5.7	5.5	2.5	1.7	0.25	- -	- -	- -	4.3	0.35	0.84	- -	- -	- -	- -
WETCHEM	Sulfate	- -	- -	- -	- -	- -	- -	- -	- -	- -	480	3800	- -	- -	- -	- -	190	4400	690	7600
WETCHEM	Surfactants (MBAS)	0.24 J	0.071 J	0.054 J	- -	- -	- -	- -	- -	- -	1.4 J	1.3 J	0.11	- -	- -	- -	< 1 UJ	1.4 J	0.69 J	2 J
WETCHEM	Total Cyanide	0.0064	0.0037 J	0.0046 J	- -	- -	- -	- -	- -	- -	0.58	5.2	0.0046 J	- -	- -	- -	0.6	3.3	1.1	5.7
WETCHEM	pH	- -	- -	- -	7.6	7.76	7.5	7.45	7.82	6.88	- -	- -	- -	6.12	7.53	6.86	- -	- -	- -	- -
WETCHEM	Total Suspended Solids	- -	- -	- -	25	< 10 U	32	160	250	< 10 U	- -	- -	- -	- -	1700	890	- -	- -	- -	- -

Notes:
Soil samples – Samples were collected from the upper 2 to 3 inches of soil, after removal of any charred vegetation from the ground surface.
Ash samples – Samples were collected where sufficient ash accumulation was present near the corresponding soil sample location.
Surface water - storm water runoff at location of corresponding soil sample in drainage.

No ash samples were collected at sample locations CF-1, CRP-1, KD-1, LFBS54, RP-1, SJBC-1, SJBC-2, SORP-1, and WCWP-1.
Sample locations SC-1 and WC-1are located within the burn area of the Burbank "Harvard" Fire, in Burbank, California, approximately 20 miles east of the Santa Susana Field Laboratory (SSFL).
Sample location FC-1 is located within the burn area of the Sierra Fire, in Orange County, California, approximately 65 miles southeast of the SSFL. Sample locations KD-1, SJBC-1, SJBC-2, WCWP-1, and SORP-1 are located offsite and are not within the footprint of any recent fires.

Sample ID Key

Sample Id	Location
CF-1	China Flats
CRP-1	Chatsworth Reservoir Park
FC-1	Fremont Canyon
KD-1	Kalorama Drive
LFBS54S01	LETF/CTL-I
PCC-1	Palo Camado Canyon
RP-1	Rocky Peak
SC-1	Stough Canyon
SJBC-1	San John Barrana Canyon
SJBC-2	San John Barrana Canyon
SORP-1	Santiago Oaks Regional Park
SSM-1	Santa Susana Mountains
WC-1	Wildwood Canyon
WCWP-1	Weir Canyon Wilderness Park
Upstream-001	upstream of Outfall 001
Upstream-002	upstream of Outfall 002

Data qualifiers:
U = Not detected
J = Estimated value
B = Blank contamination
R = Rejected data

Units of measure by analyte/matrix

group	MATRIX - units
DIOXIN	Soil or Ash = ng/kg (nanograms per kilogram)
DIOXIN	Surface Water = µg/L (micrograms per liter)
METALS	Soil or Ash = mg/kg (milligrams per kilogram)
METALS	Surface Water = mg/L (milligrams per liter)
PAH	Soil or Ash = µg/kg (micrograms per kilogram)
SVOC	Soil or Ash = µg/kg (micrograms per kilogram)
SVOC	Surface Water = µg/L (micrograms per liter)
WETCHEM	Soil or Ash = mg/kg (milligrams per kilogram)
WETCHEM	Soil or Ash = mg/L (milligrams per liter)

Sample Identification = RFI site and sample identifier code
EPA Identication = Unique identifier used for reporting purposes

TCDD TEQ = Tetrachlorodibenzo-p-dioxin Toxic Equivalence Quotient
TEQ values were calculated using detected congener concentrations and WHO/97 Toxicity Equivalency Factors (TEFs). For comparison, western United States dioxin TEQs typically range up to 2 pg/g or parts per trillion.

DIOXIN = Dioxins and Furans by USEPA method 1613B
METALS = Metals by USEPA method 6010B, 6020 and 7471A
PAH = Polyaromatic Hydrocarbons by USEPA method 8270C SIM (selective ion monitoring)
SVOC = Semi-Volatile Organic Compounds by USEPA method 8270 and 625
WETCHEM = Ammonia-NH3 by method 350.3 Modified
Ammonia-N by methods 350.2 and 350.3 modified
Nitrate/Nitrite-N by 300.0
pH by 9045C and 150.1
Sulfate by method 300.0
Surfactants by methylene blue active substances (MBAS) method SM5540-C
Total Cyanide by method 9014
Total Suspended Solids by 160.2

Table A-4
Post-Topanga Fire
Soil and Ash Background Sample Results
Santa Susana Field Laboratory

Sample Identification		SGSS01S01	SGSS01S01	BKND-5	BKND-5	BKND-1	BCSS09S01	BCSS09S01	BZSS05S01	BZSS05S01	BZSS06S01
Sample matrix		Soil	Ash	Soil	Ash	Soil	Soil	Ash	Soil	Ash	Soil
Collection date		10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005
Location		Background	Background	Background	Background	Background	Background	Background	Background	Background	Background
EPA Identification		WL016	WL017	WL018	WL019	WL021	WL025	WL024	WL026	WL028	WL027
Sample depth (ft bgs)		0	0	0	0	0	0	0	0	0	0
group	**Constituent**										
DIOXIN	1,2,3,4,6,7,8-HpCDD	23	5.87	20.4	100	3.4	< 0.686 UJ	3.27	2.47	2.55 J	2.53
DIOXIN	1,2,3,4,6,7,8-HpCDF	3.73	0.485 J	3.16	3.45 J	0.561 J	< 0.147 UJ	0.32 J	0.804 J	3.06	0.738 J
DIOXIN	1,2,3,4,7,8,9-HpCDF	0.308 J	< 0.218 U	0.331 J	0.491 J	< 0.0839 U	< 0.0864 U	< 0.152 U	< 0.116 U	< 0.537 U	< 0.168 U
DIOXIN	1,2,3,4,7,8-HxCDD	0.607 J	< 0.596 U	0.449 J	0.916 J	0.192 J	< 0.118 U	< 0.328 U	< 0.309 U	< 0.233 U	< 0.169 U
DIOXIN	1,2,3,4,7,8-HxCDF	0.375 J	0.268 J	< 0.287 UJ	< 0.241 UJ	0.135 J	0.154 J	0.167 J	0.234 J	1.4 J	0.177 J
DIOXIN	1,2,3,6,7,8-HxCDD	1.29 J	< 0.613 U	0.95 J	5.57	0.174 J	< 0.115 U	< 0.303 U	< 0.316 U	0.622 J	0.275 J
DIOXIN	1,2,3,6,7,8-HxCDF	0.382 J	0.184 J	0.27 J	< 0.195 UJ	0.0912 J	0.133 J	0.148 J	0.177 J	0.964 J	0.144 J
DIOXIN	1,2,3,7,8,9-HxCDD	1.2 J	0.562 J	0.888 J	3.35 J	< 0.0894 U	< 0.117 U	0.378 J	< 0.314 U	0.519 J	0.284 J
DIOXIN	1,2,3,7,8,9-HxCDF	< 0.0918 U	< 0.148 U	< 0.13 UJ	< 0.0764 U	< 0.0588 U	< 0.0905 U	< 0.0797 U	0.216 J	< 0.377 U	0.175 J
DIOXIN	1,2,3,7,8-PeCDD	0.334 J	0.288 J	0.279 J	0.749 J	< 0.0646 U	< 0.0826 U	0.289 J	0.0958 J	0.424 J	< 0.118 UJ
DIOXIN	1,2,3,7,8-PeCDF	0.275 J	< 0.295 U	0.178 J	< 0.159 U	< 0.0811 UJ	< 0.291 UJ	0.206 J	< 0.125 UJ	1.07 J	0.118 J
DIOXIN	2,3,4,6,7,8-HxCDF	0.42 J	< 0.109 U	0.337 J	0.281 J	< 0.0852 UJ	< 0.0588 U	0.115 J	0.2 J	0.835 J	0.201 J
DIOXIN	2,3,4,7,8-PeCDF	0.418 J	0.286 J	0.293 J	< 0.139 U	< 0.137 UJ	0.197 J	< 0.174 UJ	0.249 J	1.08 J	0.226 J
DIOXIN	2,3,7,8-TCDD	< 0.138 U	< 0.175 U	< 0.087 U	0.363 J	< 0.0622 U	< 0.109 U	0.134 J	< 0.113 U	0.23 J	< 0.106 U
DIOXIN	2,3,7,8-TCDF	0.284 J	0.212 J	< 0.301 UJ	< 0.114 U	0.163 J	0.279 J	0.389 J	0.159 J	0.727 J	< 0.0831 U
DIOXIN	OCDD	168	23.8	211	470	48	4.23 J	9.35	19	10.2	18.7
DIOXIN	OCDF	8.37	< 0.661 UJ	9.83	17	0.97 J	< 0.325 U	< 0.469 U	< 0.83 U	1.67 J	1.16 J
DIOXIN	TCDD TEQ (ND = 0)	1.3	0.62	0.98	3.2	0.12	0.16	0.59	0.35	1.8	0.28
DIOXIN	Total HpCDD	46.5	16	42.8	171	9.59	1.02	7.28	5.8	5.6	6.04
DIOXIN	Total HpCDF	9.09	1.03	8.59	12.1	1.27	< 0.147 U	0.32	1.47	4.17	1.35
DIOXIN	Total HxCDD	12.7	7.42	9.75	42.7	1.3	0.279	5.54	1.35	7.18	1.86
DIOXIN	Total HxCDF	6.19	1.36	4.17	2.76	1.03	0.689	0.661	2.12	10	2.01
DIOXIN	Total PeCDD	3.21	3.55	2.48	12.5	0.149	< 0.0826 U	4.15	0.751	12.7	0.604
DIOXIN	Total PeCDF	5.08	1.46	3.83	0.986	1.02	2.2	1.2	2.57	16.3	2.4
DIOXIN	Total TCDD	1.19	< 0.22 U	0.774	7.1	< 0.0622 U	< 0.109 U	2.72	0.232	47.6	< 0.106 U
DIOXIN	Total TCDF	5.23	2.16	3.13	0.481	0.163	2.53	4.37	1.31	18.6	1.18
METALS	Aluminum	11000 J	12000 J	9800 J	3400 J	12000 J	9900	13000	11000	4400	12000
METALS	Antimony	1.6 R	1.6 R	1.7 R	3.5 R	1.7 R	< 0.81 U	< 1.7 U	< 0.81 U	< 1.6 U	< 0.81 U
METALS	Arsenic	2.7	2.6 J	3.9	< 2.7 U	3.4	11	3.9	4.9	< 1.2 U	3.6
METALS	Barium	110	240	76	360	59	69	300	100	130	82
METALS	Beryllium	0.45	0.41	0.47	< 0.88 U	0.54	0.54	< 0.41 U	0.62	< 0.4 U	0.45
METALS	Boron	6.4	57	6	85	6.6	3.5	160	3.2	48	< 1 U
METALS	Cadmium	0.59	1.1	0.48	< 0.88 U	0.57	0.47	< 0.41 U	0.62	< 0.4 U	0.54
METALS	Chromium	17	18	12	2.3	16	15	15	17	6.1	18
METALS	Cobalt	4.9	5.4	4.1	1.6	6.3	4.5	4.5	5.3	1.6	5.4
METALS	Copper	11	30	8	25	12	9.2	64	13	15	8.9
METALS	Iron	17000	17000	15000	4200	19000	16000	12000	17000	5300	19000
METALS	Lead	24	64	27	5.2	9.5	10	9.7	17	33	12
METALS	Lithium	20	16	19	9.4	18	17	14	20	7.6	28
METALS	Manganese	310	540	270	610	390	260	520	340	220	350
METALS	Mercury	0.017	0.058	0.0091	0.0053	0.011	< 0.003 UJ	0.0038	0.0031	< 0.003 U	0.011
METALS	Molybdenum	0.54	1	< 0.44 U	< 0.88 U	< 0.41 U	0.42	1.7	0.34	< 0.4 U	0.27
METALS	Nickel	21 J	21 J	11 J	7 J	14 J	11	24	12	9.3	12
METALS	Potassium	4300	9400	3300	58000	3400	3700	53000	5400	17000	3900
METALS	Selenium	< 2 U	< 2 U	< 2.2 U	< 4.4 U	< 2.1 U	< 1 U	< 2.1 U	< 1 U	< 2 U	< 1 U
METALS	Silver	< 0.81 U	< 0.81 U	< 0.87 U	< 1.8 U	< 0.83 U	< 0.4 U	< 0.83 U	< 0.4 U	< 0.8 U	< 0.41 U
METALS	Sodium	110	430	69	1000	64	150	3100	180	1200	86
METALS	Thallium	4.5	3.2	3.3	< 3.5 U	3.3	1.9	< 1.7 U	1.8	< 1.6 U	2.2
METALS	Vanadium	30	35	23	8.4	27	27	28	32	11	37
METALS	Zinc	64	190	55	64	51	53	150	67	57	61
METALS	Zirconium	1.6	2.8	1.7	< 3.3 U	< 1.6 U	1.6	4.1	< 1.5 U	< 3 U	2.4

Table A-4
Post-Topanga Fire
Soil and Ash Background Sample Results
Santa Susana Field Laboratory

Sample Identification		SGSS01S01	SGSS01S01	BKND-5	BKND-5	BKND-1	BCSS09S01	BCSS09S01	BZSS05S01	BZSS05S01	BZSS06S01
Sample matrix		Soil	Ash	Soil	Ash	Soil	Soil	Ash	Soil	Ash	Soil
Collection date		10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/13/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005	10/14/2005
Location		Background	Background	Background	Background	Background	Background	Background	Background	Background	Background
EPA Identification		WL016	WL017	WL018	WL019	WL021	WL025	WL024	WL026	WL028	WL027
Sample depth (ft bgs)		0	0	0	0	0	0	0	0	0	0
group	**Constituent**										
PAH	1-Methylnaphthalene	24 J	22 J	42	41 J	< 20 U	17 J	94	11 J	31	< 21 U
PAH	2-Methylnaphthalene	33 J	33 J	51	57 J	< 20 U	22	140	15 J	45	< 21 U
PAH	Acenaphthene	12 J	< 20 U	12 J	< 22 U	< 20 U	< 20 U	< 21 U	< 20 U	< 20 U	< 21 U
PAH	Acenaphthylene	9.9 J	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	13 J	< 20 U	< 20 U	< 21 U
PAH	Anthracene	< 20 U	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	22	< 20 U	< 20 U	< 21 U
PAH	Benzo(a)anthracene	9.3 J	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	16 J	< 20 U	19 J	< 21 U
PAH	Benzo(a)pyrene	< 20 U	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	30	< 20 U	70	< 21 U
PAH	Benzo(b)fluoranthene	< 20 U	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	25	< 20 U	46 J	< 21 U
PAH	Benzo(g,h,i)perylene	9 J	< 20 UJ	< 22 UJ	< 22 UJ	< 20 UJ	< 20 U	12 J	< 20 U	25 J	< 21 U
PAH	Benzo(k)fluoranthene	< 20 U	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	< 21 U	< 20 U	< 20 UJ	< 21 U
PAH	Chrysene	17 J	11 J	8.7 J	9.1 J	< 20 U	< 20 U	100	< 20 U	180	< 21 U
PAH	Dibenzo(a,h)anthracene	< 20 U	< 20 U	< 22 UJ	< 22 U	< 20 UJ	< 20 U	< 21 U	< 20 U	< 20 UJ	< 21 U
PAH	Fluoranthene	19 J	12 J	9.8 J	13 J	< 20 U	< 20 U	57	8.3 J	59	< 21 U
PAH	Fluorene	20 J	< 20 U	15 J	< 22 U	< 20 U	< 20 U	11 J	8.3 J	< 20 U	< 21 U
PAH	Indeno(1,2,3-cd)pyrene	< 20 U	< 20 U	< 22 U	< 22 U	< 20 U	< 20 U	< 21 U	< 20 U	< 20 U	< 21 U
PAH	Naphthalene	64 J	300 J	140	320 J	< 20 U	70	930	31	480	11 J
PAH	Phenanthrene	38 J	54 J	34	60 J	< 20 U	21	240	21	150	11 J
PAH	Pyrene	23 J	11 J	14 J	14 J	9.4 J	< 20 U	53	10 J	56	< 21 U
WETCHEM	Ammonia-NH3	17	14	32	8.6	< 6.2 U	27	13	16	7.6	5.1 J
WETCHEM	Sulfate	130	5800	180	4000	12	440	6800	340	4000	37
WETCHEM	Surfactants (MBAS)	< 1 UJ	1.8 J	< 5.4 UJ	2.2 J	< 5.2 UJ	3 J	4.5 J	< 5 UJ	6.6 J	< 5.1 UJ
WETCHEM	Total Cyanide	1.3	4.9	1.7	8.6	< 0.51 U	1.5	1.9	< 0.5 U	5.6	< 0.51 U

Notes:
Soil samples – Samples were collected from the upper 2 to 3 inches of soil, after removal of any charred vegetation from the ground surface.
Ash samples – Samples were collected where sufficient ash accumulation was present near the corresponding soil sample location.
Background samples - Samples were recollected after the Topanga Fire at DTSC-approved background locations, and represent local ambient soil conditions unimpacted by site activities.
With the exception of BKND-1, all sample locations are located within the Topanga Fire perimeter

Sample ID Key

Sample Identification	Location
BCSS09S01	Bell Canyon
BKND-1	Background
BKND-5	Background
BZSS05S01	Background-Buffer
BZSS06S01	Background-Buffer
SGSS01S01	Sage Ranch

Data qualifiers:
U = not detected
J = estimated value
R = rejected data

Units of measure by analyte/matrix

group	MATRIX - units
DIOXIN	Soil or Ash = ng/kg (nanograms per kilogram)
METALS	Soil or Ash = mg/kg (milligrams per kilogram)
PAH	Soil or Ash = µg/kg (micrograms per kilogram)
WETCHEM	Soil or Ash = mg/kg (milligrams per kilogram)

DIOXIN = Dioxins and Furans by USEPA method 1613B
METALS = Metals by USEPA method 6010B, 6020 and 7471A
PAH = Polyaromatic Hydrocarbons by USEPA method 8270C SIM (selective ion monitoring)
WETCHEM = Ammonia-NH3 by method 350.3 Modified
Sulfate by method 300.0
Surfactants by methylene blue active substances (MBAS) method SM5540-C
Total Cyanide by method 9014

Sample Identification = RFI site and sample identifier code
EPA Identication = Unique identifier used for reporting purposes

TCDD TEQ (ND = 0) = Tetrachlorodibenzo-p-dioxin Toxic Equivalence Quotient (Not Detected = 0)
TEQ values were calculated using detected congener concentrations and WHO/97 Toxicity Equivalency Factors (TEFs). For comparison, western United States dioxin TEQs typically range up to 2 pg/g or parts per trillion.

Table A-5
Post-Topanga Fire Sample Locations and Coordinates

Sample ID	Northing	Easting
BKND-1	265758	1782330
BKND-5	263776	1787630
BCSS09	261455	1792980
BZSS05	264261	1796440
BZSS06	269756	1788400
SGSS01	270853	1796080
RP-1	280335	1807240
CRP-1	270608	1810160
SSM-1	277839	1811361
CF-1	254631	1765620
PCC-1	250619	1774856
SC-1	260356	1907364
WC-1	258856	1912225
Upstream 001	262292	1791830
Upstream 002	263095	1786570
FC-1	126431	2106313
KD-1	289046	1612156
LFBS54	267205	1794155
SJBC-1	288950	1617040
SJBC-2	290829	1617053
SORP-1	117940	2073123
WCWP-1	125104	2081898

All coordinates in State Plane NAD 27, Zone 5

Table A-6
SSFL Precipitation Concentrations
(Ambient Rain Water)
January to March 2005

			Collection Dates				
Group	**Constituent**	**units**	**01/07/2005**	**02/11/2005**	**02/18/2005**	**03/04/2005**	**03/23/2005**
DIOXIN	1,2,3,4,6,7,8-HpCDD	µg/L	< 5.00E-05 UJ	- -	< 6.23E-06 U	- -	2.39E-04
DIOXIN	1,2,3,4,6,7,8-HpCDF	µg/L	5.50E-06 J	- -	< 3.08E-06 U	- -	3.45E-05 J
DIOXIN	1,2,3,4,7,8,9-HpCDF	µg/L	< 2.40E-06 U	- -	< 3.63E-06 U	- -	< 4.13E-06 U
DIOXIN	1,2,3,4,7,8-HxCDD	µg/L	< 1.90E-06 U	- -	< 4.74E-06 U	- -	< 3.60E-06 U
DIOXIN	1,2,3,4,7,8-HxCDF	µg/L	< 1.60E-06 U	- -	< 1.86E-06 U	- -	2.38E-06 J
DIOXIN	1,2,3,6,7,8-HxCDD	µg/L	< 1.60E-06 U	- -	< 4.84E-06 U	- -	6.60E-06 J
DIOXIN	1,2,3,6,7,8-HxCDF	µg/L	< 1.50E-06 U	- -	< 1.78E-06 U	- -	2.28E-06 J
DIOXIN	1,2,3,7,8,9-HxCDD	µg/L	< 1.60E-06 U	- -	< 4.78E-06 U	- -	5.72E-06 J
DIOXIN	1,2,3,7,8,9-HxCDF	µg/L	< 2.10E-06 U	- -	< 3.08E-06 U	- -	< 1.87E-06 U
DIOXIN	1,2,3,7,8-PeCDD	µg/L	< 2.90E-06 U	- -	< 2.34E-06 U	- -	< 1.32E-06 U
DIOXIN	1,2,3,7,8-PeCDF	µg/L	< 1.80E-06 U	- -	< 4.99E-06 U	- -	< 2.08E-06 U
DIOXIN	2,3,4,6,7,8-HxCDF	µg/L	< 1.20E-06 U	- -	< 1.95E-06 U	- -	2.24E-06 J
DIOXIN	2,3,4,7,8-PeCDF	µg/L	< 2.00E-06 U	- -	< 4.62E-06 U	- -	< 1.89E-06 U
DIOXIN	2,3,7,8-TCDD	µg/L	< 3.50E-06 U	- -	< 2.69E-06 U	- -	< 1.78E-06 U
DIOXIN	2,3,7,8-TCDF	µg/L	< 3.40E-06 U	- -	< 3.02E-06 U	- -	< 1.57E-06 U
DIOXIN	OCDD	µg/L	< 1.00E-04 UJ	- -	< 1.27E-05 U	- -	3.42E-03
DIOXIN	OCDF	µg/L	< 1.00E-04 UJ	- -	< 1.02E-05 U	- -	4.49E-05 J
DIOXIN	TCDD TEQ_with DNQ	µg/L	5.50E-08	- -	0	- -	5.00E-06
DIOXIN	TCDD TEQ_no DNQ	µg/L	0	- -	0	- -	2.73E-06
DIOXIN	Total HpCDD	µg/L	2.00E-05 J	- -	< 6.23E-06 U	- -	8.36E-04
DIOXIN	Total HpCDF	µg/L	1.50E-05 J	- -	< 3.32E-06 U	- -	8.58E-05 J
DIOXIN	Total HxCDD	µg/L	2.40E-06 J	- -	< 4.79E-06 U	- -	5.51E-05 J
DIOXIN	Total HxCDF	µg/L	< 1.60E-06 U	- -	< 2.11E-06 U	- -	6.90E-05 J
DIOXIN	Total PeCDD	µg/L	< 2.90E-06 U	- -	< 2.34E-06 U	- -	< 1.32E-06 U
DIOXIN	Total PeCDF	µg/L	< 1.90E-06 U	- -	< 4.80E-06 U	- -	9.17E-06 J
DIOXIN	Total TCDD	µg/L	< 3.50E-06 U	- -	< 2.69E-06 U	- -	< 1.78E-06 U
DIOXIN	Total TCDF	µg/L	< 3.40E-06 U	- -	< 3.02E-06 U	- -	< 1.57E-06 U
METALS	Antimony	mg/L	- -	< 0.002 UJ	< 0.00018 U	< 0.001 UJ	< 0.002 UJ
METALS	Arsenic	mg/L	- -	< 0.0038 U	< 0.0038 U	< 0.0038 U	< 0.0038 U
METALS	Barium	mg/L	- -	< 0.0028 U	< 0.0028 U	< 0.0028 U	< 0.0028 U
METALS	Beryllium	mg/L	- -	< 0.00062 U	< 0.00062 U	< 0.00062 U	< 0.00062 U
METALS	Boron	mg/L	- -	< 0.0074 U	< 0.0074 U	< 0.0074 U	< 0.0074 U
METALS	Cadmium	mg/L	- -	< 0.000015 U	< 0.000015 U	< 0.000015 U	0.000033 J
METALS	Chromium	mg/L	- -	0.0007 J	< 0.00068 U	0.0007 J	0.0011 J
METALS	Cobalt	mg/L	- -	< 0.00089 U	< 0.00089 U	< 0.00089 U	< 0.00089 U
METALS	Copper	mg/L	- -	< 0.00049 U	< 0.00049 U	0.00065 J	0.00072 J
METALS	Iron	mg/L	- -	< 0.0088 U	< 0.0088 U	0.015 J	0.039 J
METALS	Lead	mg/L	- -	< 0.00013 U	< 0.00013 U	0.00026 J	0.00019 J
METALS	Manganese	mg/L	- -	< 0.0032 U	< 0.0032 U	< 0.0032 U	< 0.0032 U
METALS	Mercury	mg/L	- -	0.00012 J	< 0.000063 U	< 0.000063 U	< 0.000063 U
METALS	Nickel	mg/L	- -	< 0.002 U	< 0.002 U	0.0025 J	< 0.002 U
METALS	Selenium	mg/L	- -	< 0.00036 U	< 0.00036 U	< 0.00036 U	< 0.00036 U
METALS	Silver	mg/L	- -	< 0.000089 UJ	< 0.000089 U	< 0.000089 U	< 0.000089 UJ
METALS	Thallium	mg/L	- -	< 0.000075 UJ	< 0.000075 U	< 0.000075 U	< 0.000075 U
METALS	Vanadium	mg/L	- -	< 0.0014 U	< 0.0014 U	< 0.0014 U	< 0.0014 U
METALS	Zinc	mg/L	- -	< 0.0037 U	< 0.0037 U	< 0.0037 U	0.0058 J

U = not detected J = estimated value

Note:
Results qualified as non-detected due to blank contamination are reported as non-detected at the laboratory RL rather than the laboratory MDI
In some cases, the RL has been elevated due to the blank contamination, as determined by the data validators.

Table A-7

Units Conversion Table

Units From:	Multiplication Factor to grams
Metric Ton (MT)	1,000,000
Kilograms (kg)	1,000
Grams (g)	1
Milligrams (mg)	1.0E-03
Micrograms (µg)	1.0E-06
Nanograms (ng)	1.0E-09
Picograms (pg)	1.0E-12
Femtograms (fg)	1.0E-15