

APPENDIX A

**OUTFALL 009 DATA GAP AND SOURCE
DELINEATION SAMPLE RESULTS**

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-1 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Object Name:	B1BS0082	B1BS0084	B1BS0085	B1BS0086	B1BS0087	B1BS0088	B1BS0089	B1BS0090	B1BS0091	B1BS0092	B1BS0092
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INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-1

TABLE A-1 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-1
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

						Object Name:	B1BS0093	B1BS0106	B1BS0108	B1BS0109	B1BS0110	B1BS0110	B1BS0111	B1BS0112	B1BS0113	B1BS0113	B1BS0114
						Sample Name:	B1BS0093S001	B1BS0106S001	B1BS0108S001	B1BS0109S001	B1BS0110S001	B1BS0110S002	B1BS0111S001	B1BS0112S001	B1BS0113D001	B1BS0113S001	B1BS0114S001
						Collection Date:	6/30/2009	1/25/2010	1/25/2010	1/25/2010	2/9/2010	2/9/2010	1/27/2010	1/28/2010	1/28/2010	1/28/2010	2/9/2010
						Sample Depth (feet):	0.0 - 0.5	0.0 - 1.0	0.0 - 1.0	0.0 - 1.0	0.0 - 0.5	4.5 - 5.0	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BC ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																	
Cadmium	mg/kg	1	1	--	--	--	0.36	0.115 J	0.212 P	3.74 P	0.0844 P	--	--	--	--	--	0.182 J
DIOXINS																	
TCDD TEQ	pg/g	0.87	3.0	--	--	0.395	--	--	--	5.05	--	0.777 P	0.338	0.416	0.225	0.904	

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-1

TABLE A-1 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-1
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

				Object Name:	B1BS0115	B1BS0117	B1BS0118	B1BS0119	B1BS0121	B1BS0122	B1BS0123	B1BS0124	B1BS0125	B1BS0126	B1BS0127
				Sample Name:	B1BS0115S001	B1BS0117S001	B1BS0118S001	B1BS0119S001	B1BS0121S001	B1BS0122S001	B1BS0123S001	B1BS0124S001	B1BS0125S001	B1BS0126S001	B1BS0127S001
				Collection Date:	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	1/28/2010	1/27/2010	1/27/2010	1/27/2010	1/27/2010	2/9/2010
				Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
				Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BC ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS															
Cadmium	mg/kg	1	1	--	--	--	--	--	--	0.627	--	--	--	--	--
DIOXINS															
TCDD TEQ	pg/g	0.87	3.0	--	--	0.00777	0*	16.6 P	1.04	81.2	3.49 P	0*	0*	0.674 P	8.45

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-1

**TABLE A-1 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-1

TABLE A-1 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-1
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Object Name:	
				Lowest RBSL ^c	RBSL Type
METALS					
Cadmium	mg/kg	1	1	--	--
DIOXINS					
TCDD TEQ	pg/g	0.87	3.0	--	--

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

**TABLE A-2 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-2
THE BOEING COMPANY**

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-2 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-2
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

Object Name:
 Sample Name:
 Collection Date:
 Sample Depth (feet):
 Status:

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type
METALS Aluminum	mg/kg	20,000	--	--	--

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-2

TABLE A-2 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Object Name:

Sample Name:

Collection Date:

T2AND SO(a1Oe:)TjTT4 1 Tf0 -1.3077 TDMxm5

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-2

**TABLE A-2 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**

Object Name:

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-2 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – B1-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	B1BS0171	B1BS0172
						Sample Name:	B1BS0171S001	B1BS0172S001
						Collection Date:	3/9/2010	3/9/2010
						Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5
						Status:	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	
Acetone	ug/kg	--	--	42711	ECO	--	--	
Benzene	ug/kg	--	--	0.13	RES	--	--	
Bromobenzene	ug/kg	--	--	110000	ECO	--	--	
Bromochloromethane	ug/kg	--	--	25000	ECO	--	--	
Bromodichloromethane	ug/kg	--	--	0.31	RES	--	--	
Bromoform	ug/kg	--	--	38000	ECO	--	--	
Bromomethane	ug/kg	--	--	25000	ECO	--	--	
Carbon Tetrachloride	ug/kg	--	--	0.042	RES	--	--	
Chlorobenzene	ug/kg	--	--	80.3	RES	--	--	
Chloroethane	ug/kg	--	--	190000	ECO	--	--	
Chloroform	ug/kg	--	--	0.77	RES	--	--	
Chloromethane	ug/kg	--	--	25000	ECO	--	--	
Chlorotrifluoroethanes	ug/kg	--	--	64000	ECO	--	--	
cis-1,2-Dichloroethene	ug/kg	--	--	14	RES	--	--	
cis-1,3-Dichloropropene	ug/kg	--	--	22000	ECO	--	--	
Cumene	ug/kg	--	--	--	--	--	--	
Dibromomethane	ug/kg	--	--	25000	ECO	--	--	
Dichlorodifluoromethane	ug/kg	--	--	15	RES	--	--	
Ethylbenzene	ug/kg	--	--	4.64	RES	--	--	
Hexachlorobutadiene	ug/kg	--	--	854	ECO	--	--	
Methyl ethyl ketone	ug/kg	--	--	62000	RES	--	--	
Methyl isobutyl ketone (MIBK)	ug/kg	--	--	19638	RES	--	--	
Methyl tert-butyl ether	ug/kg	--	--	120000	ECO	--	--	
Methylene chloride	ug/kg	--	--	4	RES	--	--	
m-Xylene & p-Xylene	ug/kg	--	--	150	RES	--	--	
n-Butylbenzene	ug/kg	--	--	210000	ECO	--	--	
n-Propylbenzene	ug/kg	--	--	203	RES	--	--	
o-Chlorotoluene	ug/kg	--	--	160000	ECO	--	--	
o-Xylene	ug/kg	--	--	190	RES	--	--	
p-Chlorotoluene	ug/kg	--	--	160000	ECO	--	--	
p-Cymene	ug/kg	--	--	64000	ECO	--	--	
sec-Butylbenzene	ug/kg	--	--	29755	RES	--	--	
sec-Dichloropropane	ug/kg	--	--	22000	ECO	--	--	
Styrene	ug/kg	--	--	7200	RES	--	--	
tert-Butylbenzene	ug/kg	--	--	210000	ECO	--	--	
Tetrachloroethene	ug/kg	--	--	0.43	RES	--	--	
Toluene	ug/kg	--	--	234	RES	--	--	
trans-1,2-Dichloroethene	ug/kg	--	--	13.8	RES	--	--	
trans-1,3-Dichloropropene	ug/kg	--	--	4400	ECO	--	--	
Trichloroethene	ug/kg	--	--	2.2	RES	--	--	
Trichlorofluoromethane	ug/kg	--	--	110	RES	--	--	
Vinyl chloride	ug/kg	--	--	0.0096	RES	--	--	

B1 FOOTNOTES
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

Notes:

--" - not analyzed / not applicable

* - Zero value for TCDD TEQ result indicates that all the analytical results used to calculate the TEQ were non-detect.

^a Soil background values from MWH (September 2005) Soil Background Report, Santa Susana Field Laboratory, Ventura County, California.

^b ISRA SRGs are established for ISRA Constituents of Concern, which include constituents that were detected at concentrations that exceeded NPDES permit limits/benchmarks. SRGs for metals are equal to the 2005 background comparison concentration and the SRG for dioxins is approximately 3 times the 2005 background comparison concentration.

^c RBSL values provided to DTSC in March 2009, Interim Final Human Health and Ecological Risk-Based Screening Levels (RBSLs) for Use in RCRA Facility

BG - background

bgs - below ground surface

Dioxins/ TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective 2005 World Health Organization (WHO) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. Non Detects are calculated as zero. TCDD TEQ values do not include laboratory data not quantified (DNQ) as specified in the NPDES permit.

Grey highlighted cells indicate concentration exceeds the Soil Remediation Goal (SRG).

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

mg/kg - milligrams per kilogram

P - Preliminary data, data has not been validated

pg/g - picograms per gram

R - Result rejected during validation

RBSL - risk-based screening levels

SRG - Soil Remediation Goal

TCDD TEQ - tetrachlorobenzo-p-dioxin toxic equivalent (normalized to 2,3,7,8-TCDD)

ug/kg - micrograms per kilogram

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-3 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – IEL-1, IEL-3, and IEL-6
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Object Name:	
				Lowest RBSL ^c	RBSL Type
METALS					
Arsenic	mg/kg	15	--	--	--
Cadmium	mg/kg	1	1	--	--
Copper	mg/kg	29	29	--	--
Lead	mg/kg	34	34	--	--
Mercury	mg/kg	0.09	0.09	--	--
Zinc	mg/kg	110	--	--	--
PCBs					
Aroclor 1016	ug/kg	--	--	140	RES
Aroclor 1221	ug/kg	--	--	140	RES
Aroclor 1232	ug/kg	--	--	77.6	ECO
Aroclor 1242	ug/kg	--	--	78.7	ECO
Aroclor 1248	ug/kg	--	--	11.4	ECO
Aroclor 1254	ug/kg	--	--	77.6	ECO
Aroclor 1260	ug/kg	--	--	77.6	ECO
SVOCs					
1-Methyl naphthalene	ug/kg	--	--	24,716	RES
2-Methylnaphthalene	ug/kg	--	--	210,000	ECO
Acenaphthene	ug/kg	--	--	2,456	ECO
Acenaphthylene	ug/kg	--	--	270,384	ECO
Anthracene	ug/kg	--	--	2,384	ECO
Benzo(a)anthracene	ug/kg	--	--	600	RES
Benzo(a)pyrene	ug/kg	--	--	60	RES
Benzo(b)fluoranthene	ug/kg	--	--	600	RES
Benzo(ghi)perylene	ug/kg	--	--	6,411	ECO
Benzo(k)fluoranthene	ug/kg	--	--	600	RES
bis(2-Ethylhexyl) phthalate	ug/kg	--	--	4,926	ECO
Butyl benzyl phthalate	ug/kg	--	--	339,549	ECO
Chrysene	ug/kg	--	--	2,359	ECO
Dibenzo(a,h)anthracene	ug/kg	--	--	170	RES
Diethyl phthalate	ug/kg	--	--	6,940,468	ECO
Dimethyl phthalate	ug/kg	--	--	4,438	ECO
Di-n-butyl phthalate	ug/kg	--	--	488	ECO
Di-n-octyl phthalate	ug/kg	--	--	13,000	ECO
Fluoranthene	ug/kg	--	--	38,000	ECO
Fluorene	ug/kg	--	--	1,646	ECO
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	600	RES

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-4

TABLE A-4 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – IEL-2, IEL-4, and IEL-5
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	ILBS0292	ILBS0294	ILBS0295	ILBS0295	ILBS0296	ILBS0296	ILBS0297	ILBS0297	ILBS0298	ILBS0304	ILBS0326	ILBS0326
						Sample Name:	ILBS0292S001	ILBS0294S001	ILBS0295S001	ILBS0295S002	ILBS0296S001	ILBS0296S002	ILBS0297S001	ILBS0297S002	ILBS0298S001	ILBS0304S001	ILBS0326S001	ILBS0326S002
						Collection Date:	1/28/2010	1/28/2010	1/27/2010	1/27/2010	1/28/2010	1/28/2010	1/27/2010	1/27/2010	1/27/2010	1/28/2010	2/9/2010	2/9/2010
						Sample Depth (feet):	0.0 - 1.0	0.0 - 1.0	0.0 - 1.0	4.5 - 5.5	0.0 - 1.0	4.5 - 5.5	0.0 - 1.0	4.5 - 5.5	0.0 - 1.0	0.0 - 1.0	0.0 - 1.0	4.5 - 5.5
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																		
Aluminum	mg/kg	20,000	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Antimony	mg/kg	8.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Arsenic	mg/kg	15	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Barium	mg/kg	140	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Beryllium	mg/kg	1.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Boron	mg/kg	9.7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cadmium	mg/kg	1	1	--	--	0.29	0.242	0.11 J	--	0.264	--	0.37	--	--	--	0.806	0.0926 J	
Chromium	mg/kg	36.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Cobalt	mg/kg	21	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	29	29	--	--	--	--	--	--	--	--	--	--	7.95	7.95 P	--	--	
Lead	mg/kg	34	34	--	--	4.22	4.59	5.75	--	14.8	--	6.29	--	--	5.63	24.9 J	5.6	
Mercury	mg/kg	0.09	0.09	--	--	0.0138 J	0.0864	<0.0155	--	0.00942 J	--	<0.0199	--	--	--	4.49	0.227	
Molybdenum	mg/kg	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Nickel	mg/kg	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	mg/kg	0.655	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Silver	mg/kg	0.79	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	mg/kg	0.46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Vanadium	mg/kg	62	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Zinc	mg/kg	110	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-4 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – IEL-2, IEL-4, and IEL-5
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

						Object Name:
						Sample Name:
						Collection Date:
						Sample Depth (feet):
						Status:
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	
METALS						
Aluminum	mg/kg	20,000	--	--	--	
Antimony	mg/kg	8.7	--	--	--	
Arsenic	mg/kg	15	--	--	--	
Barium	mg/kg	140	--	--	--	
Beryllium	mg/kg	1.1	--	--	--	
Boron	mg/kg	9.7	--	--	--	
Cadmium	mg/kg	1	1	--	--	
Chromium	mg/kg	36.8	--	--	--	
Cobalt	mg/kg	21	--	--	--	
Copper	mg/kg	29	29	--	--	
Lead	mg/kg	34	34	--	--	
Mercury	mg/kg	0.09	0.09	--	--	
Molybdenum	mg/kg	5.3	--	--	--	
Nickel	mg/kg	29	--	--	--	
Selenium	mg/kg	0.655	--	--	--	
Silver	mg/kg	0.79	--	--	--	
Thallium	mg/kg	0.46	--	--	--	
Vanadium	mg/kg	62	--	--	--	
Zinc	mg/kg	110	--	--	--	

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-5

TABLE A-5 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – IEL-7 and IEL-8
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

				<table border="1"> <tr> <td>Object Name:</td> <td>ILBS0254</td> <td>ILBS0255</td> <td>ILBS0280</td> <td>ILBS0300</td> <td>ILBS0302</td> </tr> <tr> <td>Sample Name:</td> <td>ILBS0254S001</td> <td>ILBS0255S001</td> <td>ILBS0280AS001</td> <td>ILBS0300S001</td> <td>ILBS0302S001</td> </tr> <tr> <td>Collection Date:</td> <td>6/5/2009</td> <td>6/5/2009</td> <td>2/9/2010</td> <td>1/27/2010</td> <td>1/27/2010</td> </tr> <tr> <td>Sample Depth (feet):</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 1.0</td> <td>0.0 - 1.0</td> </tr> <tr> <td>Status:</td> <td>In Place</td> <td>In Place</td> <td>Excavated</td> <td>In Place</td> <td>In Place</td> </tr> </table>							Object Name:	ILBS0254	ILBS0255	ILBS0280	ILBS0300	ILBS0302	Sample Name:	ILBS0254S001	ILBS0255S001	ILBS0280AS001	ILBS0300S001	ILBS0302S001	Collection Date:	6/5/2009	6/5/2009	2/9/2010	1/27/2010	1/27/2010	Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 1.0	0.0 - 1.0	Status:	In Place	In Place	Excavated	In Place	In Place
Object Name:	ILBS0254	ILBS0255	ILBS0280	ILBS0300	ILBS0302																																			
Sample Name:	ILBS0254S001	ILBS0255S001	ILBS0280AS001	ILBS0300S001	ILBS0302S001																																			
Collection Date:	6/5/2009	6/5/2009	2/9/2010	1/27/2010	1/27/2010																																			
Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 1.0	0.0 - 1.0																																			
Status:	In Place	In Place	Excavated	In Place	In Place																																			
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT																														
DIOXINS																																								
TCDD TEQ	pg/g	0.87	3.0	--	--	0.155	1.80	0.383	0*	0*																														

IEL FOOTNOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Notes:

"--" - not analyzed / not applicable

* - Zero value for TCDD TEQ result indicates that all the analytical results used to calculate the TEQ were non-detect.

^a Soil background values from MWH (September 2005) Soil Background Report, Santa Susana Field Laboratory, Ventura County, California.

^b ISRA SRGs are established for ISRA Constituents of Concern, which include constituents that were detected at concentrations that exceeded NPDES permit limits/benchmarks. SRGs for metals are equal to the 2005 background comparison concentration and the SRG for dioxins is approximately 3 times the 2005 background comparison concentration.

BG - background

bgs - below ground surface

Dioxins/ TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective 2005 World Health Organization (WHO) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. Non Detects are calculated as zero. TCDD TEQ values do not include laboratory data not quantified (DNQ) as specified in the NPDES permit.

Grey highlighted cells indicate concentration exceeds the Soil Remediation Goal (SRG).

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

mg/kg - milligrams per kilogram

P - Preliminary data, data has not been validated

pg/g - picograms per gram

RBSL - risk-based screening levels

SRG - Soil Remediation Goal

TCDD TEQ - tetrachlorobenzo-p-dioxin toxic equivalent (normalized to 2,3,7,8-TCDD)

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

**TABLE A-6 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – A1LF-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**



INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-7

TABLE A-7 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – A1LF-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

				<table border="1"> <tr> <td>Object Name:</td> <td>A1BS0063</td> <td>A1BS0067</td> <td>A1BS0068</td> <td>A1BS0068</td> <td>A1BS0073</td> <td>A1BS0074</td> <td>A1BS0075</td> <td>A1BS0076</td> <td>A1BS0077</td> <td>A1BS0078</td> <td>A1BS0079</td> </tr> <tr> <td>Sample Name:</td> <td>A1BS0063S001</td> <td>A1BS0067S001</td> <td>A1BS0068S001</td> <td>A1BS0068S002</td> <td>A1BS0073S001</td> <td>A1BS0074S001</td> <td>A1BS0075S001</td> <td>A1BS0076S001</td> <td>A1BS0077S001</td> <td>A1BS0078S001</td> <td>A1BS0079S001</td> </tr> <tr> <td>Collection Date:</td> <td>6/5/2009</td> <td>2/8/2010</td> <td>2/8/2010</td> <td>2/8/2010</td> <td>2/3/2010</td> <td>2/3/2010</td> <td>2/3/2010</td> <td>2/3/2010</td> <td>2/3/2010</td> <td>2/3/2010</td> <td>2/3/2010</td> </tr> <tr> <td>Sample Depth (feet):</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>4.5 - 5.0</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> </tr> <tr> <td>Status:</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> </tr> </table>												Object Name:	A1BS0063	A1BS0067	A1BS0068	A1BS0068	A1BS0073	A1BS0074	A1BS0075	A1BS0076	A1BS0077	A1BS0078	A1BS0079	Sample Name:	A1BS0063S001	A1BS0067S001	A1BS0068S001	A1BS0068S002	A1BS0073S001	A1BS0074S001	A1BS0075S001	A1BS0076S001	A1BS0077S001	A1BS0078S001	A1BS0079S001	Collection Date:	6/5/2009	2/8/2010	2/8/2010	2/8/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	4.5 - 5.0	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
Object Name:	A1BS0063	A1BS0067	A1BS0068	A1BS0068	A1BS0073	A1BS0074	A1BS0075	A1BS0076	A1BS0077	A1BS0078	A1BS0079																																																																
Sample Name:	A1BS0063S001	A1BS0067S001	A1BS0068S001	A1BS0068S002	A1BS0073S001	A1BS0074S001	A1BS0075S001	A1BS0076S001	A1BS0077S001	A1BS0078S001	A1BS0079S001																																																																
Collection Date:	6/5/2009	2/8/2010	2/8/2010	2/8/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010																																																																
Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	4.5 - 5.0	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5																																																																
Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place																																																																
ANALYTE	UNITS	BC ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT																																																												
METALS																																																																											
Aluminum	mg/kg	20,000	--	--	--	--	13,100	21,500	18,000	8,790 P	10,600 P	13,000	--	12,700	--	10,300 P																																																											
Antimony	mg/kg	8.7	--	--	--	--	1.12 J	1.28 J	0.965 J	<0.417 P	<0.401 P	<3.92 J	--	<3.8 J	--	<0.402 P																																																											
Arsenic	mg/kg	15	--	--	--	--	10 J	2.36 J	7.98 J	8.87 P	13.5 P	16.8	--	8.29	--	19.2 P																																																											
Barium	mg/kg	140	--	--	--	--	63.4	54.9	61.2	81.8 P	71.4 P	71.2	--	77.6	--	70.6 P																																																											
Beryllium	mg/kg	1.1	--	--	--	--	0.557	0.246	0.607	0.39 P	0.438 P	0.511	--	0.463	--	0.532 P																																																											
Boron	mg/kg	9.7	--	--	--	--	<12 J	<12.8	<10.4	<1.26 P	<1.22 P	11.9	--	<11.5 J	--	<1.22 P																																																											
Cadmium	mg/kg	1	1	--	--	--	0.368	0.254	0.113 J	0.809 P	0.858 P	0.276	--	0.697	--	0.784 P																																																											
Chromium	mg/kg	36.8	--	--	--	--	17.6 J	55.2 J	27.8 J	21.5 P	28.5 P	29 J	--	21.3 J	--	23.2 P																																																											
Cobalt	mg/kg	21	--	--	--	--	6.85 J	20.9 J	6.45 J	5.9 P	5.95 P	6.67	--	5.3	--	6.15 P																																																											
Copper	mg/kg	29	29	--	--	--	9.19 J	24.2 J	9.54 J	17.3 P	12.8 P	13 J	--	11.9 J	--	11.3 P																																																											
Lead	mg/kg	34	34	--	--	--	28.1 J	12.2 J	4.14 J	19.7 P	15.1 P	9.68	--	23.6	--	17.5 P																																																											
Mercury	mg/kg	0.09	0.09	--	--	--	0.0337	<0.0054 J	0.0064 J	0.0756 P	0.0289 P	0.0225	--	0.0648	--	0.0728 P																																																											
Molybdenum	mg/kg	5.3	--	--	--	--	0.662	<0.288	<0.38	0.567 P	0.737 P	<0.491	--	<0.572	--	0.602 P																																																											
Nickel	mg/kg	29	--	--	--	--	11.8	85.3	20.1	13.7 P	16.3 P	17.7 J	--	12.7 J	--	14.8 P																																																											
Selenium	mg/kg	0.655	--	--	--	--	<0.598	<0.634	<0.581	<0.615 P	<0.58 P	<0.593	--	<0.607	--	0.592 P																																																											
Silver	mg/kg	0.79	--	--	--	--	0.315	0.0733 J	0.0492 J	9.77 P	5.49 P	7.41	--	9.9	--	4.01 P																																																											
Thallium	mg/kg	0.46	--	--	--	--	0.157 J	0.09 J	0.218	0.279 P	0.209 P	0.245	--	0.238 J	--	0.252 P																																																											
Vanadium	mg/kg	62	--	--	--	--	32	75.9	44	34.4 P	36.4 P	39	--	30	--	37.7 P																																																											
Zinc	mg/kg	110	--	--	--	--	53.9 J	73.1 J	45.5 J	87.1 P	74.2 P	54.4	--	71.4	--	74.4 P																																																											
DIOXINS																																																																											
TCDD TEQ	pg/g	0.87	3.0	--	--	2.38	0.257	0.373	--	0.267	2.83	--	1.00	--	0.489	--																																																											
PCBs																																																																											
Aroclor 1016	ug/kg	--	--	140	RES	--	<3.99	<22.4	<3.89	<21.2 P	<20.2 P	<3.98	--	<20.4	--	<20.6 P																																																											
Aroclor 1221	ug/kg	--	--	140	RES	--	<3.99	<22.4	<3.89	<21.2 P	<20.2 P	<3.98	--	<20.4	--	<20.6 P																																																											
Aroclor 1232	ug/kg	--	--	77.6	ECO	--	<3.99	<22.4	<3.89	<21.2 P	<20.2 P	<3.98	--	<20.4	--	<20.6 P																																																											
Aroclor 1242	ug/kg	--	--	78.7	ECO	--	<3.99	<22.4	<3.89	<21.2 P	<20.2 P	<3.98	--	<20.4	--	<20.6 P																																																											
Aroclor 1248	ug/kg	--	--	11.4	ECO	--	<3.99	<22.4	<3.89	<21.2 P	<20.2 P	<3.98	--	<20.4	--	<20.6 P																																																											
Aroclor 1254	ug/kg	--	--	77.6	ECO	--	<3.99	<22.4	<3.89	44.4 P	82.3 P	8	--	67.6	--	22.2 P																																																											
Aroclor 1260	ug/kg	--	--	77.6	ECO	--	<3.99	<22.4	<3.89	40.9 P	46.6 P	6.2	--	57.9	--	24.4 P																																																											

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-7

TABLE A-7 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – A1LF-2
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

Object Name:
 Sample Name:
 Collection Date:
 Sample Depth (feet):
 Status:

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type
METALS					
Aluminum	mg/kg	20,000	--	--	--
Antimony	mg/kg	8.7	--	--	--
Arsenic	mg/kg	15	--	--	--
Barium	mg/kg	140	--	--	--
Beryllium	mg/kg	1.1	--	--	--
Boron	mg/kg	9.7	--	--	--
Cadmium	mg/kg	1	1	--	--
Chromium	mg/kg	36.8	--	--	--
Cobalt	mg/kg	21	--	--	--
Copper	mg/kg	29	29	--	--
Lead	mg/kg	34	34	--	--
Mercury	mg/kg	0.09	0.09	--	--
Molybdenum	mg/kg	5.3	--	--	--
Nickel	mg/kg	29	--	--	--
Selenium	mg/kg	0.655	--	--	--
Silver	mg/kg	0.79	--	--	--

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-7

TABLE A-7 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – A1LF-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

				<table border="1"> <tr> <td>Object Name:</td> <td>A1BS0103</td> <td>A1BS0104</td> <td>A1BS0106</td> <td>A1BS0108</td> <td>A1BS0109</td> <td>A1BS0111</td> <td>A1BS0113</td> <td>A1BS0114</td> <td>A1BS05</td> <td>A1BS06</td> <td>A1BS07</td> </tr> <tr> <td>Sample Name:</td> <td>A1BS0103S001</td> <td>A1BS0104S001</td> <td>A1BS0106S001</td> <td>A1BS0108S001</td> <td>A1BS0109S001</td> <td>A1BS0111S001</td> <td>A1BS0113S001</td> <td>A1BS0114S001</td> <td>A1BS05AS001</td> <td>A1BS06AS001</td> <td>A1BS07AS001</td> </tr> <tr> <td>Collection Date:</td> <td>3/3/2010</td> <td>3/3/2010</td> <td>3/3/2010</td> <td>3/3/2010</td> <td>3/2/2010</td> <td>3/3/2010</td> <td>3/3/2010</td> <td>3/17/2010</td> <td>2/2/2010</td> <td>2/2/2010</td> <td>2/2/2010</td> </tr> <tr> <td>Sample Depth (feet):</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> <td>0.0 - 0.5</td> </tr> <tr> <td>Status:</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> </tr> </table>												Object Name:	A1BS0103	A1BS0104	A1BS0106	A1BS0108	A1BS0109	A1BS0111	A1BS0113	A1BS0114	A1BS05	A1BS06	A1BS07	Sample Name:	A1BS0103S001	A1BS0104S001	A1BS0106S001	A1BS0108S001	A1BS0109S001	A1BS0111S001	A1BS0113S001	A1BS0114S001	A1BS05AS001	A1BS06AS001	A1BS07AS001	Collection Date:	3/3/2010	3/3/2010	3/3/2010	3/3/2010	3/2/2010	3/3/2010	3/3/2010	3/17/2010	2/2/2010	2/2/2010	2/2/2010	Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
Object Name:	A1BS0103	A1BS0104	A1BS0106	A1BS0108	A1BS0109	A1BS0111	A1BS0113	A1BS0114	A1BS05	A1BS06	A1BS07																																																																
Sample Name:	A1BS0103S001	A1BS0104S001	A1BS0106S001	A1BS0108S001	A1BS0109S001	A1BS0111S001	A1BS0113S001	A1BS0114S001	A1BS05AS001	A1BS06AS001	A1BS07AS001																																																																
Collection Date:	3/3/2010	3/3/2010	3/3/2010	3/3/2010	3/2/2010	3/3/2010	3/3/2010	3/17/2010	2/2/2010	2/2/2010	2/2/2010																																																																
Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5																																																																
Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place																																																																
ANALYTE	UNITS	BC ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT																																																												
METALS																																																																											
Aluminum	mg/kg	20,000	--	--	--	4,840 P	--	--	9,490 P	--	--	16,400 P	9,630 P	--	--	--																																																											
Antimony	mg/kg	8.7	--	--	--	0.326 P	--	--	0.383 P	--	--	0.407 P	0.468 P	--	--	--																																																											
Arsenic	mg/kg	15	--	--	--	2.63 P	--	--	16.5 P	--	--	4.84 P	7.23 P	--	--	--																																																											
Barium	mg/kg	140	--	--	--	44.3 P	--	--	50 P	--	--	83.1 P	99.6 P	--	--	--																																																											
Beryllium	mg/kg	1.1	--	--	--	0.228 P	--	--	0.345 P	--	--	0.455 P	0.527 P	--	--	--																																																											
Boron	mg/kg	9.7	--	--	--	0.989 P	--	--	1.16 P	--	--	3.22 P	1.99 P	--	--	--																																																											
Cadmium	mg/kg	1	1	--	--	0.128 P	--	--	0.116 P	--	--	0.277 P	0.319 P	--	--	--																																																											
Chromium	mg/kg	36.8	--	--	--	17.1 P	--	--	23 P	--	--	56.7 P	20.8 P	--	--	--																																																											
Cobalt	mg/kg	21	--	--	--	5.44 P	--	--	6.95 P	--	--	19 P	6.39 P	--	--	--																																																											
Copper	mg/kg	29	29	--	--	10.8 P	--	--	9.59 P	--	--	25.7 P	11.5 P	--	--	--																																																											
Lead	mg/kg	34	34	--	--	24 P	--	--	7.14 P	--	--	42.4 P	19.2 P	--	--	--																																																											
Mercury	mg/kg	0.09	0.09	--	--	0.0183 P	--	--	0.0119 P	--	--	0.0386 P	0.0376 P	--	--	--																																																											
Molybdenum	mg/kg	5.3	--	--	--	0.412 P	--	--	0.324 P	--	--	0.464 P	3.21 P	--	--	--																																																											
Nickel	mg/kg	29	--	--	--	15.6 P	--	--	17.7 P	--	--	70.1 P	16.9 P	--	--	--																																																											
Selenium	mg/kg	0.655	--	--	--	0.52 P	--	--	0.563 P	--	--	0.625 P	0.163 P	--	--	--																																																											
Silver	mg/kg	0.79	--	--	--	0.0458 P	--	--	4.08 P	--	--	0.08 P	0.131 P	--	--	--																																																											
Thallium	mg/kg	0.46	--	--	--	0.127 P	--	--	0.207 P	--	--	0.245 P	0.237 P	--	--	--																																																											
Vanadium	mg/kg	62	--	--	--	27.4 P	--	--	33.8 P	--	--	80.1 P	35.6 P	--	--	--																																																											
Zinc	mg/kg	110	--	--	--	60.2 P	--	--	57.6 P	--	--	99.2 P	58.2 P	--	--	--																																																											
DIOXINS																																																																											
TCDD TEQ	pg/g	0.87	3.0	--	--	1.95	0.0953 P	2.34 P	2.24	0.0647 P	3.32 P	--	0.625 P	1.72	0.993	0.450																																																											
PCBs																																																																											
Aroclor 1016	ug/kg	--	--	140	RES	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											
Aroclor 1221	ug/kg	--	--	140	RES	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											
Aroclor 1232	ug/kg	--	--	77.6	ECO	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											
Aroclor 1242	ug/kg	--	--	78.7	ECO	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											
Aroclor 1248	ug/kg	--	--	11.4	ECO	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											
Aroclor 1254	ug/kg	--	--	77.6	ECO	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											
Aroclor 1260	ug/kg	--	--	77.6	ECO	<35.9 P	--	--	<39.8 P	--	--	--	<19.2 P	--	--	--																																																											

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-7 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – A1LF-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	A1BS08	A1BS09
						Sample Name:	A1BS08AS001	A1BS09AS001
						Collection Date:	2/2/2010	2/2/2010
						Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5
						Status:	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	
METALS								
Aluminum	mg/kg	20,000	--	--	--	--	--	
Antimony	mg/kg	8.7	--	--	--	--	--	
Arsenic	mg/kg	15	--	--	--	--	--	
Barium	mg/kg	140	--	--	--	--	--	
Beryllium	mg/kg	1.1	--	--	--	--	--	
Boron	mg/kg	9.7	--	--	--	--	--	
Cadmium	mg/kg	1	1	--	--	--	--	
Chromium	mg/kg	36.8	--	--	--	--	--	
Cobalt	mg/kg	21	--	--	--	--	--	
Copper	mg/kg	29	29	--	--	--	--	
Lead	mg/kg	34	34	--	--	--	--	
Mercury	mg/kg	0.09	0.09	--	--	--	--	
Molybdenum	mg/kg	5.3	--	--	--	--	--	
Nickel	mg/kg	29	--	--	--	--	--	
Selenium	mg/kg	0.655	--	--	--	--	--	
Silver	mg/kg	0.79	--	--	--	--	--	
Thallium	mg/kg	0.46	--	--	--	--	--	
Vanadium	mg/kg	62	--	--	--	--	--	
Zinc	mg/kg	110	--	--	--	--	--	
DIOXINS								
TCDD TEQ	pg/g	0.87	3.0	--	--	0.861	0*	
PCBs								
Aroclor 1016	ug/kg	--	--	140	RES	--	--	
Aroclor 1221	ug/kg	--	--	140	RES	--	--	
Aroclor 1232	ug/kg	--	--	77.6	ECO	--	--	
Aroclor 1242	ug/kg	--	--	78.7	ECO	--	--	
Aroclor 1248	ug/kg	--	--	11.4	ECO	--	--	
Aroclor 1254	ug/kg	--	--	77.6	ECO	--	--	
Aroclor 1260	ug/kg	--	--	77.6	ECO	--	--	

A1LF FOOTNOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Notes:

"--" - not analyzed / not applicable

* - Zero value for TCDD TEQ result indicates that all the analytical results used to calculate the TEQ were non-detect.

^a Soil background values from MWH (September 2005) Soil Background Report, Santa Susana Field Laboratory, Ventura County, California.

^b ISRA SRGs are established for ISRA Constituents of Concern, which include constituents that were detected at concentrations that exceeded NPDES permit limits/benchmarks. SRGs for metals are equal to the 2005 background comparison concentration and the SRG for dioxins is approximately 3 times the 2005 background comparison concentration.

^c RBSL values provided to DTSC in March 2009, Interim Final Human Health and Ecological Risk-Based Screening Levels (RBSLs) for Use in RCRA Facility

BG - background

bgs - below ground surface

Dioxins/ TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective 2005 World Health Organization (WHO) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. Non Detects are calculated as zero. TCDD TEQ values do not include laboratory data not quantified (DNQ) as specified in the NPDES permit.

Grey highlighted cells indicate concentration exceeds the Soil Remediation Goal (SRG).

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

mg/kg - milligrams per kilogram

P - Preliminary data, data has not been validated

pg/g - picograms per gram

R - Result rejected during validation

RBSL - risk-based screening levels

SRG - Soil Remediation Goal

TCDD TEQ - tetrachlorobenzo-p-dioxin toxic equivalent (normalized to 2,3,7,8-TCDD)

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

**TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY**



INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Object Name:
Sample Name:
Collection Date:
Sample Depth (feet):
Status:

ANALYTE	UNITS	BC ^a	ISRA SRG ^b
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INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

				Object Name:	ENBS0156	LFBS0209	LFBS0240	LFBS0241	LFBS0242	LFBS0245	LFBS0246	LFBS0246	LFBS0246
				Sample Name:	ENBS0156S001	LFBS0209AS001	LFBS0240S001	LFBS0241S001	LFBS0242S001	LFBS0245S001	LFBS0246S001	LFBS0246AS001	LFBS0246AS002
				Collection Date:	2/4/2010	2/3/2010	2/2/2010	2/2/2010	2/2/2010	7/14/2009	7/14/2009	2/2/2010	2/2/2010
				Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	3.0 - 3.5
				Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BC ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Butyl benzyl phthalate	ug/kg	--	--	339,549	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	21.5
Chrysene	ug/kg	--	--	2,359	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	143
Dibenzo(a,h)anthracene	ug/kg	--	--	170	RES	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	28.9 J
Diethyl phthalate	ug/kg	--	--	6,940,468	ECO	--	--	<20.3 P	<19.2 P	6.88 P	--	--	<18.6
Dimethyl phthalate	ug/kg	--	--	4,438	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	<18.6
Di-n-butyl phthalate	ug/kg	--	--	488	ECO	--	--	9.78 P	<19.2 P	11.9 P	--	--	<18.6
Di-n-octyl phthalate	ug/kg	--	--	13,000	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	<18.6
Fluoranthene	ug/kg	--	--	38,000	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	125
Fluorene	ug/kg	--	--	1,646	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	<18.6
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	600	RES	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	69.7
Naphthalene	ug/kg	--	--	210,000	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	<18.6
n-Nitrosodimethylamine	ug/kg	--	--	45	RES	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	<18.6
Phenanthrene	ug/kg	--	--	1,314	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	35.5
Pyrene	ug/kg	--	--	18,000	ECO	--	--	<20.3 P	<19.2 P	<19.9 P	--	--	207

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Object Name:						LFBS0253	LFBS0254	LFBS0256	LFBS0263	LFBS0264	LFBS0266	LFBS0267	LFBS0268	LFBS0270	LFBS0272
Sample Name:						LFBS0253S001	LFBS0254S001	LFBS0256S001	LFBS0263S001	LFBS0264S001	LFBS0266S001	LFBS0267S001	LFBS0268S001	LFBS0270S001	LFBS0272S001
Collection Date:						2/1/2010	2/1/2010	2/1/2010	2/2/2010	2/4/2010	2/4/2010	2/4/2010	2/4/2010	2/4/2010	2/3/2010
Sample Depth (feet):						0.0 - 0.1	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
Status:						In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS															
Aluminum	mg/kg	20,000	--	--	--	10,800 P	14,500 P	12,900 P	12,600	16,400 P	9,560 P	13,500 P	12,600 P	15,500 P	11,700
Antimony	mg/kg	8.7	--	--	--	<0.426 P	<0.376 P	<0.359 P	<0.404	0.358 P	0.367 P	0.377 P	0.359 P	0.399 P	<0.359
Arsenic	mg/kg	15	--	--	--	4.37 P	7.54 P	6.99 P	10.6 J	8.61 P	8.31 P	5.73 P	6.81 P	8.94 P	8.78 J
Barium	mg/kg	140	--	--	--	96.7 P	126 P	121 P	79.4 J	160 P	70.7 P	98.9 P	115 P	117 P	91.4
Beryllium	mg/kg	1.1	--	--	--	0.545 P	0.809 P	0.826 P	0.729	1.09 P	0.697 P	0.759 P	0.752 P	0.751 P	0.879
Boron	mg/kg	9.7	--	--	--	<1.29 P	<1.14 P	<1.09 P	<1.22 J	1.08 P	1.11 P	1.14 P	1.09 P	1.21 P	<1.09 J
Cadmium	mg/kg	1	1	--	--	0.23 P	0.303 P	0.251 P	0.134 J	0.305 P	0.146 P	0.271 P	0.24 P	0.281 P	0.28
Chromium	mg/kg	36.8	--	--	--	16.1 P	21.1 P	25.5 P	20.7 J	24.1 P	17.8 P	24.5 P	22.3 P	21.3 P	21.2 J
Cobalt	mg/kg	21	--	--	--	5.2 P	11.4 P	7.65 P	5.49	10.5 P	5.41 P	9.8 P	6.48 P	8.08 P	8.12 J
Copper	mg/kg	29	29	--	--	9.6 P	12.8 P	16.4 P	10.4 J	15.7 P	11.5 P	14.5 P	13.4 P	11.9 P	11.5 J
Lead	mg/kg	34	34	--	--	20.9 P	14 P	17.4 P	11.3 J	15.1 P	11.6 P	41.8 P	16.4 P	19.9 P	37 J
Mercury	mg/kg	0.09	0.09	--	--	0.0142 P	0.016 P	0.0124 P	0.0275 J	0.0262 P	0.0146 P	0.0169 P	0.0178 P	0.0139 P	0.0267
Molybdenum	mg/kg	5.3	--	--	--	0.573 P	0.805 P	0.627 P	0.317	0.698 P	0.63 P	0.691 P	0.543 P	0.606 P	0.431 J
Nickel	mg/kg	29	--	--	--	11.3 P	15.4 P	19.3 P	11 J	17.3 P	11.1 P	16.2 P	13.9 P	15 P	13.4 J
Selenium	mg/kg	0.655	--	--	--	<0.623 P	<0.556 P	<0.588 P	<0.6	0.584 P	0.525 P	0.512 P	0.581 P	0.597 P	<0.543
Silver	mg/kg	0.79	--	--	--	<0.0498 P	0.0538 P	0.049 P	<0.048	0.0561 P	0.042 P	0.045 P	0.0493 P	0.0635 P	0.0746 J
Thallium	mg/kg	0.46	--	--	--	0.27 P	0.459 P	0.35 P	0.465	0.371 P	0.419 P	0.311 P	0.327 P	0.324 P	0.335
Vanadium	mg/kg	62	--	--	--	31.1 P	44.2 P	44.3 P	46.1	48.8 P	36.3 P	44.3 P	45.1 P	42.8 P	41 J
Zinc	mg/kg	110	--	--	--	71.4 P	76 P	102 P	105	80.4 P	93.2 P	230 P	81.3 P	78 P	97.6 J
DIOXINS															
TCDD TEQ	pg/g	0.87	3.0	--	--	0.365	--	--	0.772	0.705 P	1.26 P	0.170	--	--	--
PCBs															
Aroclor 1016	ug/kg	--	--	140	RES	--	--	--	--	--	--	--	--	--	--
Aroclor 1221	ug/kg	--	--	140	RES	--	--	--	--	--	--	--	--	--	--
Aroclor 1232	ug/kg	--	--	77.6	ECO	--	--	--	--	--	--	--	--	--	--
Aroclor 1242	ug/kg	--	--	78.7	ECO	--	--	--	--	--	--	--	--	--	--
Aroclor 1248	ug/kg	--	--	11.4	ECO	--	--	--	--	--	--	--	--	--	--
Aroclor 1254	ug/kg	--	--	77.6	ECO	--	--	--	--	--	--	--	--	--	--
Aroclor 1260	ug/kg	--	--	77.6	ECO	--	--	--	--	--	--	--	--	--	--
SVOCs															
1-Methyl naphthalene	ug/kg	--	--	24,716	RES	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P	<18.3
2-Methylnaphthalene	ug/kg	--	--	210,000	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P	<18.3
Acenaphthene	ug/kg	--	--	2,456	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P	<18.3
Acenaphthylene	ug/kg	--	--	270,384	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P	<18.3
Anthracene	ug/kg	--	--	2,384	ECO	<21.5 P	<19.9 P	<19.8 P	7.13 J	<19.5 P	<20.1 P	6.2 P	5.54 P	<20.6 P	4.98 J
Benzo(a)anthracene	ug/kg	--	--	600	RES	18.5 P	<19.9 P	9.97 P	169	<19.5 P	20 P	75.7 P	17.5 P	9.05 P	<18.3
Benzo(a)pyrene	ug/kg	--	--	60	RES	17.5 P	<19.9 P	<19.8 P	219	<19.5 P	17.8 P	64.8 P	10.2 P	<20.6 P	<18.3
Benzo(b)fluoranthene	ug/kg	--	--	600	RES	24.2 P	<19.9 P	<19.8 P	442	<19.5 P	33.2 P	178 P	16.8 P	13.8 P	23.4
Benzo(ghi)perylene	ug/kg	--	--	6,411	ECO	9.37 P	<19.9 P	<19.8 P	86.5	<19.5 P	14 P	56.2 P	9.29 P	<20.6 P	<18.3
Benzo(k)fluoranthene	ug/kg	--	--	600	RES	17.6 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P	9.96 J
bis(2-Ethylhexyl) phthalate	ug/kg	--	--	4,926	ECO	51.5 P	10.7 P	11.5 P	23.9	19.3 P	16.4 P	23.8 P	28.6 P	31.9 P	63

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

				Object Name:	LFBS0253	LFBS0254	LFBS0256	LFBS0263	LFBS0264	LFBS0266	LFBS0267	LFBS0268	LFBS0270	LFBS0272
				Sample Name:	LFBS0253S001	LFBS0254S001	LFBS0256S001	LFBS0263S001	LFBS0264S001	LFBS0266S001	LFBS0267S001	LFBS0268S001	LFBS0270S001	LFBS0272S001
				Collection Date:	2/1/2010	2/1/2010	2/1/2010	2/2/2010	2/4/2010	2/4/2010	2/4/2010	2/4/2010	2/4/2010	2/3/2010
				Sample Depth (feet):	0.0 - 0.1	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
				Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Butyl benzyl phthalate	ug/kg	--	--	339,549	ECO	27.9 P	8.87 P	18.2 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
Chrysene	ug/kg	--	--	2,359	ECO	19.7 P	<19.9 P	<19.8 P	172	<19.5 P	15.5 P	86 P	48.5 P	6.58 P
Dibenzo(a,h)anthracene	ug/kg	--	--	170	RES	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	21.3 P	<19.8 P	<20.6 P
Diethyl phthalate	ug/kg	--	--	6,940,468	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	14 P	9.99 P	<19.8 P	<20.6 P
Dimethyl phthalate	ug/kg	--	--	4,438	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
Di-n-butyl phthalate	ug/kg	--	--	488	ECO	<21.5 P	<19.9 P	<19.8 P	7.03 J	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
Di-n-octyl phthalate	ug/kg	--	--	13,000	ECO	44.1 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
Fluoranthene	ug/kg	--	--	38,000	ECO	16.6 P	<19.9 P	9.64 P	142	<19.5 P	27.5 P	76.4 P	10.3 P	10.5 P
Fluorene	ug/kg	--	--	1,646	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	600	RES	8.88 P	<19.9 P	<19.8 P	96.1	<19.5 P	12.9 P	54 P	9.14 P	<20.6 P
Naphthalene	ug/kg	--	--	210,000	ECO	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
n-Nitrosodimethylamine	ug/kg	--	--	45	RES	<21.5 P	<19.9 P	<19.8 P	<20.4	<19.5 P	<20.1 P	<19.1 P	<19.8 P	<20.6 P
Phenanthrene	ug/kg	--	--	1,314	ECO	<21.5 P	<19.9 P	<19.8 P	31.5	<19.5 P	<20.1 P	21.9 P	<19.8 P	<20.6 P
Pyrene	ug/kg	--	--	18,000	ECO	15.8 P	<19.9 P	9.25 P	188	<19.5 P	21.3 P	60.9 P	8.65 P	8.02 P

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	LFBS0273	LFBS0274	LFBS0276	LFBS0276	LFBS0277	LFBS0278	LFBS0280	LFBS0281	LFBS0281	LFBS0282
						Sample Name:	LFBS0273S001	LFBS0274S001	LFBS0276S001	LFBS0276S001SP	LFBS0277S001	LFBS0278S001	LFBS0280S001	LFBS0281S001	LFBS0281S002	LFBS0282S001
						Collection Date:	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/4/2010	2/3/2010	2/2/2010	2/2/2010	2/3/2010
						Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	3.0 - 3.5	0.0 - 0.5
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																
Aluminum	mg/kg	20,000	--	--	--	13,700	12,400	11,400 P	14,000	11,500 P	--	11,000 P	12,000	15,400	14,300 P	
Antimony	mg/kg	8.7	--	--	--	<0.389	<3.95 J	<0.375 P	<1.2 J	<0.357 P	--	<0.368 P	<0.364	<3.43 J	<0.364 P	
Arsenic	mg/kg	15	--	--	--	9.81 J	8.21	8.12 P	9.9	7.45 P	--	4.45 P	5.65 J	3.43	10.1 P	
Barium	mg/kg	140	--	--	--	88.1	101	77.6 P	86	74.7 P	--	48.6 P	89.6 J	54.2	72.5P	
Beryllium	mg/kg	1.1	--	--	--	1.35	0.723	0.986 P	0.65	0.721 P	--	0.823 P	0.63	0.417	0.868 P	
Boron	mg/kg	9.7	--	--	--	<1.18 J	<12 J	1.14 P	3.9 J	1.08 P	--	1.12 P	<1.1 J	<10.4 J	<1.1 P	
Cadmium	mg/kg	1	1	--	--	0.181 J	0.242	0.416 P	0.57	0.132 P	--	0.0831 P	0.244	0.0682 J	0.109 P	
Chromium	mg/kg	36.8	--	--	--	22.5 J	22.6 J	20.5 P	23	20 P	--	13.6 P	20.7 J	20.3 J	20.5 P	
Cobalt	mg/kg	21	--	--	--	11.1 J	8.18	6.29 P	7.9	8.18 P	--	3.86 P	5.41	4.87	6.65 P	
Copper	mg/kg	29	29	--	--	13 J	16.3 J	12.7 P	1900	10 P	--	6.79 P	10.6 J	7.11 J	10.4 P	
Lead	mg/kg	34	34	--	--	15.2 J	27.4	41.6 P	450	11.1 P	--	6.21 P	13.5 J	5.68	11.9 P	
Mercury	mg/kg	0.09	0.09	--	--	0.0108 J	0.0238	0.0065 P	0.0092 J	0.023 P	--	<0.00447 P	<0.00412 J	<0.00432	0.0105 P	
Molybdenum	mg/kg	5.3	--	--	--	0.436 J	<0.571	0.378 P	1.8	0.334 P	--	0.137 P	0.645	0.941	0.639 P	
Nickel	mg/kg	29	--	--	--	14.4 J	14 J	12.1 P	16	11.8 P	--	6.87 P	11 J	8.99 J	11.8 P	
Selenium	mg/kg	0.655	--	--	--	<0.587	<0.588	<0.574 P	0.43 J	<0.54 P	--	<0.563 P	<0.561	<0.516	<0.573 P	
Silver	mg/kg	0.79	--	--	--	0.118 J	0.0689 J	0.096 P	0.21 J	0.0505 P	--	0.0498 P	0.0581 J	<0.0413	0.0485 P	
Thallium	mg/kg	0.46	--	--	--	0.336	0.292	0.264 P	0.28	0.284 P	--	0.208 P	0.271	0.221	0.358 P	
Vanadium	mg/kg	62	--	--	--	45.8 J	37.9	38.4 P	32 J	40.6 P	--	28.2 P	41.8	35.5	44.3 P	
Zinc	mg/kg	110	--	--	--	79.1 J	90.9	248 P	760	68 P	--	50 P	316	56	70.8 P	
DIOXINS																
TCDD TEQ	pg/g	0.87	3.0	--	--	--	--	--	--	--	--	0.0522	0.154	--	0.0903	
PCBs																
Aroclor 1016	ug/kg	--	--	140	RES	--	--	--	--	--	<18.7	--	--	--	--	
Aroclor 1221	ug/kg	--	--	140	RES	--	--	--	--	--	<18.7	--	--	--	--	
Aroclor 1232	ug/kg	--	--	77.6	ECO	--	--	--	--	--	<18.7	--	--	--	--	
Aroclor 1242	ug/kg	--	--	78.7	ECO	--	--	--	--	--	<18.7	--	--	--	--	
Aroclor 1248	ug/kg	--	--	11.4	ECO	--	--	--	--	--	<18.7	--	--	--	--	
Aroclor 1254	ug/kg	--	--	77.6	ECO	--	--	--	--	--	<18.7	--	--	--	--	
Aroclor 1260	ug/kg	--	--	77.6	ECO	--	--	--	--	--	11.9 J	--	--	--	--	
SVOCs																
1-Methyl naphthalene	ug/kg	--	--	24,716	RES	<19.7	<20.4	<19.2 P	0.55 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
2-Methylnaphthalene	ug/kg	--	--	210,000	ECO	<19.7	<20.4	<19.2 P	0.71 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Acenaphthene	ug/kg	--	--	2,456	ECO	<19.7	<20.4	<19.2 P	4.8 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Acenaphthylene	ug/kg	--	--	270,384	ECO	<19.7	<20.4	<19.2 P	0.32 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Anthracene	ug/kg	--	--	2,384	ECO	<19.7	<20.4	<19.2 P	22 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Benzo(a)anthracene	ug/kg	--	--	600	RES	<19.7	<20.4	<19.2 P	150	<18.7 P	--	<19 P	9.92 J	--	<19.1 P	
Benzo(a)pyrene	ug/kg	--	--	60	RES	52.9	<20.4	21.5 P	110	31.7 P	--	<19 P	8.18 J	--	<19.1 P	
Benzo(b)fluoranthene	ug/kg	--	--	600	RES	91.4	<20.4	32.6 P	290 J	56.8 P	--	<19 P	23.6	--	<19.1 P	
Benzo(ghi)perylene	ug/kg	--	--	6,411	ECO	10.4 J	<20.4	<19.2 P	47	7.98 P	--	<19 P	<18.7	--	<19.1 P	
Benzo(k)fluoranthene	ug/kg	--	--	600	RES	37.5	<20.4	<19.2 P	--	23.1 P	--	<19 P	<18.7	--	<19.1 P	
bis(2-Ethylhexyl) phthalate	ug/kg	--	--	4,926	ECO	34.3	<20.4	16.4 P	<23	<18.7 P	--	14.2 P	8.1 J	--	13.8 P	

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	LFBS0273	LFBS0274	LFBS0276	LFBS0276	LFBS0277	LFBS0278	LFBS0280	LFBS0281	LFBS0281	LFBS0282
						Sample Name:	LFBS0273S001	LFBS0274S001	LFBS0276S001	LFBS0276S001SP	LFBS0277S001	LFBS0278S001	LFBS0280S001	LFBS0281S001	LFBS0281S002	LFBS0282S001
						Collection Date:	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/3/2010	2/4/2010	2/3/2010	2/2/2010	2/2/2010	2/3/2010
						Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	3.0 - 3.5	0.0 - 0.5
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Butyl benzyl phthalate	ug/kg	--	--	339,549	ECO	<19.7	<20.4	<19.2 P	29 J	11.3 P	--	<19 P	<18.7	--	<19.1 P	
Chrysene	ug/kg	--	--	2,359	ECO	42.6	<20.4	17.5 P	130	26.6 P	--	<19 P	9.08 J	--	<19.1 P	
Dibenzo(a,h)anthracene	ug/kg	--	--	170	RES	<19.7	<20.4	<19.2 P	20 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Diethyl phthalate	ug/kg	--	--	6,940,468	ECO	9.01 J	11.9 J	<19.2 P	<23	7.19 P	--	<19 P	<18.7	--	8.16 P	
Dimethyl phthalate	ug/kg	--	--	4,438	ECO	19.7	<20.4	<19.2 P	1.2 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Di-n-butyl phthalate	ug/kg	--	--	488	ECO	9.44 J	<20.4	<19.2 P	<23	6.88 P	--	<19 P	<18.7	--	6.87 P	
Di-n-octyl phthalate	ug/kg	--	--	13,000	ECO	<19.7	<20.4	<19.2 P	<23	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Fluoranthene	ug/kg	--	--	38,000	ECO	70.7	<20.4	29.6 P	280	55.3 P	--	<19 P	8.75 J	--	10.4 P	
Fluorene	ug/kg	--	--	1,646	ECO	<19.7	<20.4	<19.2 P	4.1 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	600	RES	86.3	<20.4	65.6 P	51	72 P	--	<19 P	<18.7	--	<19.1 P	
Naphthalene	ug/kg	--	--	210,000	ECO	<19.7	<20.4	<19.2 P	3.1 J	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
n-Nitrosodimethylamine	ug/kg	--	--	45	RES	<19.7	<20.4	<19.2 P	<23	<18.7 P	--	<19 P	<18.7	--	<19.1 P	
Phenanthrene	ug/kg	--	--	1,314	ECO	12.4 J	<20.4	9.36 P	98	13 P	--	<19 P	<18.7	--	7.34 P	
Pyrene	ug/kg	--	--	18,000	ECO	69.3	<20.4	28 P	250	61.1 P	--	<19 P	11.6 J	--	7.98 P	

Table A-1 thru A-15

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="padding: 2px;">Object Name:</td></tr> <tr><td style="padding: 2px;">Sample Name:</td></tr> <tr><td style="padding: 2px;">Collection Date:</td></tr> <tr><td style="padding: 2px;">Sample Depth (feet):</td></tr> <tr><td style="padding: 2px;">Status:</td></tr> </table>						Object Name:	Sample Name:	Collection Date:	Sample Depth (feet):	Status:
Object Name:										
Sample Name:										
Collection Date:										
Sample Depth (feet):										
Status:										
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type					
METALS										
Aluminum	mg/kg	20,000	--	--	--					
Antimony	mg/kg	8.7	--	--	--					
Arsenic	mg/kg	15	--	--	--					
Barium	mg/kg	140	--	--	--					
Beryllium	mg/kg	1.1	--	--	--					
Boron	mg/kg	9.7	--	--	--					
Cadmium	mg/kg	1	1	--	--					
Chromium	mg/kg	36.8	--	--	--					
Cobalt	mg/kg	21	--	--	--					
Copper	mg/kg	29	29	--	--					
Lead	mg/kg	34	34	--	--					
Mercury	mg/kg	0.09	0.09	--	--					
Molybdenum	mg/kg	5.3	--	--	--					
Nickel	mg/kg	29	--	--	--					
Selenium	mg/kg	0.655	--	--	--					
Silver	mg/kg	0.79	--	--	--					
Thallium	mg/kg	0.46	--	--	--					
Vanadium	mg/kg	62	--	--	--					
Zinc	mg/kg	110	--	--	--					
DIOXINS										
TCDD TEQ	pg/g	0.87	3.0	--	--					
PCBs										
Aroclor 1016	ug/kg	--	--	140	RES					
Aroclor 1221	ug/kg	--	--	140	RES					
Aroclor 1232	ug/kg	--	--	77.6	ECO					
Aroclor 1242	ug/kg	--	--	78.7	ECO					
Aroclor 1248	ug/kg	--	--	11.4	ECO					
Aroclor 1254	ug/kg	--	--	77.6	ECO					
Aroclor 1260	ug/kg	--	--	77.6	ECO					
SVOCs										
1-Methyl naphthalene	ug/kg	--	--	24,716	RES					
2-Methylnaphthalene	ug/kg	--	--	210,000	ECO					
Acenaphthene	ug/kg	--	--	2,456	ECO					
Acenaphthylene	ug/kg	--	--	270,384	ECO					
Anthracene	ug/kg	--	--	2,384	ECO					
Benzo(a)anthracene	ug/kg	--	--	600	RES					
Benzo(a)pyrene	ug/kg	--	--	60	RES					
Benzo(b)fluoranthene	ug/kg	--	--	600	RES					
Benzo(ghi)perylene	ug/kg	--	--	6,411	ECO					
Benzo(k)fluoranthene	ug/kg	--	--	600	RES					
bis(2-Ethylhexyl) phthalate	ug/kg	--	--	4,926	ECO					

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	<table border="1"> <tr> <td>Object Name:</td> </tr> <tr> <td>Sample Name:</td> </tr> <tr> <td>Collection Date:</td> </tr> <tr> <td>Sample Depth (feet):</td> </tr> <tr> <td>Status:</td> </tr> </table>		Object Name:	Sample Name:	Collection Date:	Sample Depth (feet):	Status:
				Object Name:						
Sample Name:										
Collection Date:										
Sample Depth (feet):										
Status:										
				Lowest RBSL ^c	RBSL Type					

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

**TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY**

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

Object Name:
 Sample Name:
 Collection Date:
 Sample Depth (feet):
 Status:

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type
METALS					
Aluminum	mg/kg	20,000	--	--	--
Antimony	mg/kg	8.7	--	--	--
Arsenic	mg/kg	15	--	--	--
Barium	mg/kg	140	--	--	--
Beryllium	mg/kg	1.1	--	--	--
Boron	mg/kg	9.7	--	--	--
Cadmium	mg/kg	1	1	--	--
Chromium	mg/kg	36.8	--	--	--
Cobalt	mg/kg	21	--	--	--
Copper	mg/kg	29	29	--	--
Lead	mg/kg	34	34	--	--
Mercury	mg/kg	0.09	0.09	--	--
Molybdenum	mg/kg	5.3	--	--	--
Nickel	mg/kg	29	--	--	--
Selenium	mg/kg	0.655	--	--	--
Silver	mg/kg	0.79	--	--	--
Thallium	mg/kg	0.46	--	--	--
Vanadium	mg/kg	62	--	--	--
Zinc	mg/kg	110	--	--	--
DIOXINS					
TCDD TEQ	pg/g	0.87	3.0	--	--

PCBs

Aroclor 101g/k4or 6.9(mg/kg)-2417.9(10,nc)-11777.5(mg/kg)-2289.8T2 1 T35899.9(3)-8g/kg6 -mg/kg 8.736 -mg/kg5T*ϐITSECO/kg5ECO/kg5ECO/kg5T*ϐITSECO/kg5T*ϐITSECO/kg5bVOC01g/k4or 6.9(mg/kg)-(0.87)-2541-Methyl napht9.9ene(PC190323nc)-11912.32-mg/kg5Mol2

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

				Object Name:	LFBS0318	LFBS0319	LFBS0320	LFBS0321	LFBS0322	LFBS0322	LFBS0323	LFBS0324	LFBS0324	LFBS0325
				Sample Name:	LFBS0318S001	LFBS0319S001	LFBS0320S001	LFBS0321AS001	LFBS0322AS001	LFBS0322BS001	LFBS0323AS001	LFBS0324AS001	LFBS0324S001	LFBS0325S001
				Collection Date:	3/3/2010	3/3/2010	3/3/2010	3/9/2010	3/4/2010	3/9/2010	3/9/2010	3/9/2010	3/3/2010	3/17/2010
				Sample Depth (feet):	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5	0.0 - 0.5
				Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
Butyl benzyl phthalate	ug/kg	--	--	339,549	ECO	<19.1 P	<19.4 P	<19.2 P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Chrysene	ug/kg	--	--	2,359	ECO	62P	<19.4 P	424P	230 P	--	<19.4 P	<19.7 P	17.5 P	118 P
Dibenzo(a,h)anthracene	ug/kg	--	--	170	RES	<19.1 P	<19.4 P	<19.2 P	30.6 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Diethyl phthalate	ug/kg	--	--	6,940,468	ECO	<19.1 P	<19.4 P	<19.2 P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Dimethyl phthalate	ug/kg	--	--	4,438	ECO	<19.1 P	<19.4 P	<19.2 P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Di-n-butyl phthalate	ug/kg	--	--	488	ECO	10.3P	7.7P	7.45P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	6.12 P
Di-n-octyl phthalate	ug/kg	--	--	13,000	ECO	<19.1 P	<19.4 P	<19.2 P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Fluoranthene	ug/kg	--	--	38,000	ECO	86.5P	<19.4 P	636P	347 P	--	<19.4 P	<19.7 P	13 P	185 P
Fluorene	ug/kg	--	--	1,646	ECO	<19.1 P	<19.4 P	17.3P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Indeno(1,2,3-cd)pyrene	ug/kg	--	--	600	RES	27.7P	<19.4 P	281P	87.2 P	--	<19.4 P	<19.7 P	8.86 P	66.1 P
Naphthalene	ug/kg	--	--	210,000	ECO	<19.1 P	<19.4 P	26.7P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
n-Nitrosodimethylamine	ug/kg	--	--	45	RES	<19.1 P	<19.4 P	<19.2 P	<19.1 P	--	<19.4 P	<19.7 P	<20.3 P	<19 P
Phenanthrene	ug/kg	--	--	1,314	ECO	15P	<19.4 P	297P	78.2 P	--	<19.4 P	<19.7 P	<20.3 P	32.8 P
Pyrene	ug/kg	--	--	18,000	ECO	87.1P	<19.4 P	472P	298 P	--	<19.4 P	<19.7 P	14 P	162 P

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-9 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-1 and CTLI-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	LFBS0331	LFBS0332	LFBS0333	LFBS0333	LFBS0334	LFBS0334
						Sample Name:	LFBS0331S002	LFBS0332S001	LFBS0333S001	LFBS0333S002	LFBS0334S001	LFBS0334S002
						Collection Date:	3/17/2010	3/17/2010	3/17/2010	3/17/2010	3/17/2010	3/17/2010
						Sample Depth (feet):	4.5 - 5.0	0.0 - 0.5	0.0 - 0.5	4.5 - 5.0	0.0 - 0.5	4.5 - 5.0
						Status:	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	
METALS												
Aluminum	mg/kg	20,000	--	--	--	16,800 P	16,300 P	14,200 P	17,700 P	13,400 P	13,900 P	
Antimony	mg/kg	8.7	--	--	--	<0.388 P	<0.385 P	<0.369 P	<0.409 P	<0.387 P	<0.38 P	
Arsenic	mg/kg	15	--	--	--	13.2 P	9.42 P	11 P	7.51 P	8.65	6.71 P	
Barium	mg/kg	140	--	--	--	182 P	171 P	98.7 P	135 P	108 P	90.1 P	
Beryllium	mg/kg	1.1	--	--	--	1.41 P	1.13 P	1.01 P	1.26 P	0.924 P	1.08 P	
Boron	mg/kg	9.7	--	--	--	<1.17 P	<1.17	<1.12 P	<1.24 P	<1.17 P	<1.15 P	
Cadmium	mg/kg	1	1	--	--	0.198 P	0.245 P	0.0718 P	0.102 P	0.178 P	0.082 P	
Chromium	mg/kg	36.8	--	--	--	44.1 P	28 P	27.4 P	34.3 P	23.1 P	24.9 P	
Cobalt	mg/kg	21	--	--	--	13 P	9.1 P	5.47 P	6.62 P	9.74 P	6.07 P	
Copper	mg/kg	29	29	--	--	20.1 P	18.4 P	14 P	18.1 P	13 P	13.7 P	
Lead	mg/kg	34	34	--	--	15 P	32.8 P	11.8 P	13.5 P	22.4 P	9.69 P	
Mercury	mg/kg	0.09	0.09	--	--	0.0089 P	0.0366 P	0.0139 P	0.0161 P	0.0197 P	0.0209 P	
Molybdenum	mg/kg	5.3	--	--	--	<0.501 P	<0.487 P	<0.482 P	0.666 P	0.826 P	<0.505 P	
Nickel	mg/kg	29	--	--	--	28.2 P	18.3 P	15.9 P	21.5 P	16.6 P	16.7 P	
Selenium	mg/kg	0.655	--	--	--	0.289 P	0.332 P	0.286 P	0.494 P	0.261 P	0.269 P	
Silver	mg/kg	0.79	--	--	--	0.0509 P	0.0488 P	0.0415 P	0.0943 P	0.0529 P	0.144 P	
Thallium	mg/kg	0.46	--	--	--	0.497 P	0.326 P	0.322 P	0.459 P	0.301 P	0.292 P	
Vanadium	mg/kg	62	--	--	--	73.7 P	48.5 P	46.6 P	54.6 P	40.7 P	42.3 P	
Zinc	mg/kg	110	--	--	--	104 P	80.9 P	71.2P	75.8 P	81.9 P	55.7 P	
DIOXINS												
TCDD TEQ	pg/g	0.87	3.0	--	--	0.141 P	1.62 P	0.335 P	0.110 P	0.817 P	0.158 P	
PCBs												
Aroclor 1016	ug/kg	--	--	140	RES	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
Aroclor 1221	ug/kg	--	--	140	RES	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
Aroclor 1232	ug/kg	--	--	77.6	ECO	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
Aroclor 1242	ug/kg	--	--	78.7	ECO	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
Aroclor 1248	ug/kg	--	--	11.4	ECO	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
Aroclor 1254	ug/kg	--	--	77.6	ECO	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
Aroclor 1260	ug/kg	--	--	77.6	ECO	<4.13 P	<19.3 P	<3.82 P	<4.3 P	<19.8 P	<4.04 P	
SVOCs												
1-Methyl naphthalene	ug/kg	--	--	24,716	RES	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
2-Methylnaphthalene	ug/kg	--	--	210,000	ECO	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Acenaphthene	ug/kg	--	--	2,456	ECO	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Acenaphthylene	ug/kg	--	--	270,384	ECO	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Anthracene	ug/kg	--	--	2,384	ECO	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Benzo(a)anthracene	ug/kg	--	--	600	RES	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Benzo(a)pyrene	ug/kg	--	--	60	RES	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Benzo(b)fluoranthene	ug/kg	--	--	600	RES	<20.6 P	21.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Benzo(ghi)perylene	ug/kg	--	--	6,411	ECO	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
Benzo(k)fluoranthene	ug/kg	--	--	600	RES	<20.6 P	<19.4 P	<19.1 P	<21.4 P	<19.9 P	<20.1 P	
bis(2-Ethylhexyl) phthalate	ug/kg	--	--	4,926	ECO	17 P	35.8 P	22.2 P	22.5 P	65 P	44.2 P	

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-10 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-3
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Object Name:	
				Lowest RBSL ^c	RBSL Type
METALS					
Aluminum	mg/kg	20,000	--	--	--
Antimony	mg/kg	8.7	--	--	--
Arsenic	mg/kg	15	--	--	--
Barium	mg/kg	140	--	--	--
Beryllium	mg/kg	1.1	--	--	--
Boron	mg/kg	9.7	--	--	--
Cadmium	mg/kg	1	1	--	--
Chromium	mg/kg	36.8	--	--	--
Cobalt	mg/kg	21	--	--	--
Copper	mg/kg	29	29	--	--
Lead	mg/kg	34	34	--	--
Mercury	mg/kg	0.09	0.09	--	--
Molybdenum	mg/kg	5.3	--	--	--
Nickel	mg/kg	29	--	--	--
Selenium	mg/kg	0.655	--	--	--
Silver	mg/kg	0.79	--	--	--

Sample Name:
 Collection Date:
 Sample Depth (feet):
 Status:

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-11

TABLE A-11 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – CTLI-4
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Object Name:		ENBS0085	ENBS0087	ENBS0119	ENBS0120	ENBS0121	ENBS0122	ENBS0123	ENBS0128
				Lowest RBSL ^c	RBSL Type	ENBS0085S001	ENBS0087S001	ENBS0119S001	ENBS0120S001	ENBS0121S001	ENBS0122S001	ENBS0123S001	ENBS0128S001
				Sample Name:									
				Collection Date:									
				Sample Depth (feet):									
				Status:									
DIOXINS													
TCDD TEQ	pg/g	0.87	3.0	--	--	0.294	0.976	1.86	2.91	7.23 P	0.159 P	6.03	3.45

CTLI FOOTNOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Notes:

"--" - not analyzed / not applicable

* - Zero value for TCDD TEQ result indicates that all the analytical results used to calculate the TEQ were non-detect.

^a Soil background values from MWH (September 2005) Soil Background Report, Santa Susana Field Laboratory, Ventura County, California.

^b ISRA SRGs are established for ISRA Constituents of Concern, which include constituents that were detected at concentrations that exceeded NPDES permit limits/benchmarks. SRGs for metals are equal to the 2005 background comparison concentration and the SRG for dioxins is approximately 3 times the 2005 background comparison concentration.

^c RBSL values provided to DTSC in March 2009, Interim Final Human Health and Ecological Risk-Based Screening Levels (RBSLs) for Use in RCRA Facility

BG - background

bgs - below ground surface

Dioxins/ TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective 2005 World Health Organization (WHO) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. Non Detects are calculated as zero. TCDD TEQ values do not include laboratory data not quantified (DNQ) as specified in the NPDES

TABLE A-12 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – LOX-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-12 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – LOX-2
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Object Name:
Sample Name:
Collection Date:
Sample Depth (feet):
Status:

ANALYTE UNITS

TABLE A-13 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS -- LOX-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	LXBS1042	LXBS1043	LXBS1044	LXBS1045	LXBS1046	LXBS1047	LXBS1048	LXBS1049	LXBS1049	LXBS1050	LXBS1051
						Sample Name:	LXBS1042S001	LXBS1043S001	LXBS1044S001	LXBS1045S001	LXBS1046S001	LXBS1047S001	LXBS1048S001	LXBS1049S001	LXBS1049S002	LXBS1050S001	LXBS1051S001
						Collection Date:	4/2/2009	4/2/2009	4/1/2009	4/2/2009	4/1/2009	4/1/2009	4/1/2009	4/1/2009	4/1/2009	4/2/2009	4/2/2009
						Sample Depth (feet):	0 - 0.25	0 - 0.5	0 - 0.1	1 - 0.1	0 - 0.1	0 - 0.1	0 - 0.1	0 - 0.1	2.5 - 3	0 - 0.5	0 - 0.25
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																	
Cadmium	mg/kg	1	1	--	--	--	--	0.0899 J	--	--	--	--	--	--	--	--	--
Copper	mg/kg	29	29	--	--	18.4	25.7 J	15.4	--	12.8	12.2	26.4	10.4	21.5	18.3	33	
Lead	mg/kg	34	34	--	--	--	16.3 J	--	30	23.9	24.7	33.6	7.73	13.6	15.2	203	
Mercury	mg/kg	0.09	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DIOXINS																	
TCDD TEQ	pg/g	0.87	3.0	--	--	2.44	1.38	0.37	--	335.34	2.97	101.62	0.59	0.49	3.37	8.05	

TABLE A-13 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS -- LOX-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	LXBS1057	LXBS1058	LXBS1059	LXBS1060	LXBS1061	LXBS1062	LXBS1063	LXBS1064	LXBS1065	LXBS1066	LXBS1067
						Sample Name:	LXBS1057S001	LXBS1058S001	LXBS1059S001	LXBS1060S001	LXBS1061S001	LXBS1062S001	LXBS1063S001	LXBS1064S001	LXBS1065S001	LXBS1066S001	LXBS1067S001
						Collection Date:	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009	6/16/2009
						Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.5	0 - 0.5
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																	
Cadmium	mg/kg	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	29	29	--	--	--	--	50.1	73.7	34.5	40.2	--	--	--	--	121	--
Lead	mg/kg	34	34	--	--	--	--	61.9	--	--	--	29.3 J	50.9	48.2	53.3	--	--
Mercury	mg/kg	0.09	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DIOXINS																	
TCDD TEQ	pg/g	0.87	3.0	--	--	1.54	11.24	20.26	0.65	0.73	2.59	1.08	1.32	9.13	6.76	9.06	

TABLE A-13 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – LOX-1
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

Object Name:
 Sample Name:
 Collection Date:
 Sample Depth (feet):
 Status:

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type
METALS					
Cadmium	mg/kg	1	1	--	--
Copper	mg/kg	29	29	--	--

LOX FOOTNOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Notes:

* - Zero value for TCDD TEQ result indicates that all the analytical results used to calculate the TEQ were non-detect.

^a Soil background values from MWH (September 2005) Soil Background Report, Santa Susana Field Laboratory, Ventura County, California.

^b ISRA SRGs are established for ISRA Constituents of Concern, which include constituents that were detected at concentrations that exceeded NPDES permit limits/benchmarks. SRGs for metals are equal to the 2005 background comparison concentration and the SRG for dioxins is approximately 3 times the 2005 background comparison concentration.

^c RBSL values provided to DTSC in March 2009, Interim Final Human Health and Ecological Risk-Based Screening Levels (RBSLs) for Use in RCRA Facility

BG - background

bgs - below ground surface

Dioxins/ TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective 2005 World Health Organization (WHO) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. Non Detects are calculated as zero. TCDD TEQ values do not include laboratory data not quantified (DNQ) as specified in the NPDES

TABLE A-14 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – A2LF-2
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY

ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	Object Name:	A2BS1078	A2BS1079	A2BS1080	A2BS1081	A2BS1082	A2BS1083	A2BS1084	A2BS1086	A2BS1094	A2BS1097	A2BS1098
						Sample Name:	A2BS1078S001	A2BS1079S001	A2BS1080S001	A2BS1081S001	A2BS1082S001	A2BS1083S001	A2BS1084S001	A2BS1086S001	A2BS1094S001	A2BS1097S001	A2BS1098S001
						Collection Date:	4/3/2009	4/3/2009	4/3/2009	4/3/2009	4/3/2009	4/3/2009	4/3/2009	4/3/2009	6/16/2009	8/26/2009	8/26/2009
						Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	3 - 3.5	0 - 0	0 - 0.25	0 - 0.25
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
						RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT

METALS



A2LF FOOTNOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Notes:

Sample Exceeds the 2005 Background Comparison Concentration (MWH, 2005)

J - Result is estimated

mg/kg - milligrams per kilogram

pg/g - picograms per gram

TCDD TEQ - tetrachlorobenzo-p-dioxin toxic equivalent (normalized to 2,3,7,8-TCDD)

"--" - not analyzed

Dioxins / TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective World Health Organization's (WHO's) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. TCDD TEQ values do not include laboratory data not quantified (DNQ) as specified in the NPDES permit.

TABLE A-15 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS -- AP/STP-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

		<table border="1"> <tr> <td>Object Name:</td> <td>APBS1015</td> <td>APBS1020</td> <td>APBS1022</td> <td>APBS1023</td> <td>APBS1023</td> <td>APBS1024</td> <td>APBS1025</td> <td>APBS1025</td> <td>APBS1026</td> <td>APBS1027</td> <td>APBS1028</td> </tr> <tr> <td>Sample Name:</td> <td>APBS1015AS001</td> <td>APBS1020AS001</td> <td>APBS1022S001</td> <td>APBS1023S001</td> <td>APBS1023S002</td> <td>APBS1024S001</td> <td>APBS1025S001</td> <td>APBS1025S002</td> <td>APBS1026S001</td> <td>APBS1027S001</td> <td>APBS1028S001</td> </tr> <tr> <td>Collection Date:</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>3/31/2009</td> <td>4/1/2009</td> <td>4/1/2009</td> </tr> <tr> <td>Sample Depth (feet):</td> <td>4.5 - 5</td> <td>4.5 - 5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>4 - 4.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>4.5 - 5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.4</td> </tr> <tr> <td>Status:</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> </tr> </table>											Object Name:	APBS1015	APBS1020	APBS1022	APBS1023	APBS1023	APBS1024	APBS1025	APBS1025	APBS1026	APBS1027	APBS1028	Sample Name:	APBS1015AS001	APBS1020AS001	APBS1022S001	APBS1023S001	APBS1023S002	APBS1024S001	APBS1025S001	APBS1025S002	APBS1026S001	APBS1027S001	APBS1028S001	Collection Date:	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	4/1/2009	4/1/2009	Sample Depth (feet):	4.5 - 5	4.5 - 5	0 - 0.5	0 - 0.5	4 - 4.5	0 - 0.5	0 - 0.5	4.5 - 5	0 - 0.5	0 - 0.5	0 - 0.4	Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
Object Name:	APBS1015	APBS1020	APBS1022	APBS1023	APBS1023	APBS1024	APBS1025	APBS1025	APBS1026	APBS1027	APBS1028																																																													
Sample Name:	APBS1015AS001	APBS1020AS001	APBS1022S001	APBS1023S001	APBS1023S002	APBS1024S001	APBS1025S001	APBS1025S002	APBS1026S001	APBS1027S001	APBS1028S001																																																													
Collection Date:	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	3/31/2009	4/1/2009	4/1/2009																																																													
Sample Depth (feet):	4.5 - 5	4.5 - 5	0 - 0.5	0 - 0.5	4 - 4.5	0 - 0.5	0 - 0.5	4.5 - 5	0 - 0.5	0 - 0.5	0 - 0.4																																																													
Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place																																																													
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT																																																										
METALS																																																																								
Cadmium	mg/kg	1	1	--	--	--	--	--	--	--	--	--	--	1.62																																																										
Copper	mg/kg	29	29	--	--	--	--	--	--	--	--	--	--	--																																																										
Lead	mg/kg	34	34	--	--	--	--	--	--	--	--	--	--	28.1																																																										
Mercury	mg/kg	0.09	0.09	--	--	--	--	--	--	--	--	--	--	0.116																																																										
DIOXINS																																																																								
TCDD TEQ	pg/g	0.87	3.0	--	--	0.31	0.63	0.31	2.52	0.20	1.37	8.23	0.46	5.79	1.99	--																																																								

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-15 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – AP/STP-1

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-15 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS -- AP/STP-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	APBS1062	APBS1063	APBS1064	APBS1065	APBS1066	APBS1067	APBS1068	APBS1069	APBS1070	APBS1071	APBS1072
						Sample Name:	APBS1062S001	APBS1063S001	APBS1064S001	APBS1065S001	APBS1066S001	APBS1067S001	APBS1068S001	APBS1069S001	APBS1070S001	APBS1071S001	APBS1072S001
						Collection Date:	6/17/2009	6/17/2009	6/17/2009	6/17/2009	6/17/2009	6/17/2009	6/17/2009	6/17/2009	8/25/2009	8/25/2009	6/17/2009
						Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.3	0 - 0.5	0 - 0.5	0 - 0.3
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																	
Cadmium	mg/kg	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	29	29	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	34	34	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.09	0.09	--	--	--	--	--	--	--	--	--	--	--	--	0.02	--
DIOXINS																	
TCDD TEQ	pg/g	0.87	3.0	--	--	0.99	6.80	1.40	1.25	9.43	1.60	35.80	0.55	4.37	--	--	1.19

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-13

TABLE A-15 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS -- AP/STP-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

				<table border="1"> <tr> <td>Object Name:</td> <td>APBS1073</td> <td>APBS1074</td> <td>APBS1075</td> <td>APBS1076</td> <td>APBS1077</td> <td>APBS1078</td> <td>APBS1078</td> <td>APBS1079</td> <td>APBS1080</td> <td>APBS1081</td> <td>APBS1082</td> </tr> <tr> <td>Sample Name:</td> <td>APBS1073S001</td> <td>APBS1074S001</td> <td>APBS1075S001</td> <td>APBS1076S001</td> <td>APBS1077S001</td> <td>APBS1078S001</td> <td>APBS1078S001SP</td> <td>APBS1079S001</td> <td>APBS1080S001</td> <td>APBS1081S001</td> <td>APBS1082S001</td> </tr> <tr> <td>Collection Date:</td> <td>6/17/2009</td> <td>6/17/2009</td> <td>6/17/2009</td> <td>8/25/2009</td> <td>8/25/2009</td> <td>8/25/2009</td> <td>8/25/2009</td> <td>8/25/2009</td> <td>8/25/2009</td> <td>8/25/2009</td> <td>2/8/2010</td> </tr> <tr> <td>Sample Depth (feet):</td> <td>0 - 0.3</td> <td>0 - 0.3</td> <td>0 - 0.3</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> <td>0 - 0.5</td> </tr> <tr> <td>Status:</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> <td>In Place</td> </tr> </table>												Object Name:	APBS1073	APBS1074	APBS1075	APBS1076	APBS1077	APBS1078	APBS1078	APBS1079	APBS1080	APBS1081	APBS1082	Sample Name:	APBS1073S001	APBS1074S001	APBS1075S001	APBS1076S001	APBS1077S001	APBS1078S001	APBS1078S001SP	APBS1079S001	APBS1080S001	APBS1081S001	APBS1082S001	Collection Date:	6/17/2009	6/17/2009	6/17/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	2/8/2010	Sample Depth (feet):	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
Object Name:	APBS1073	APBS1074	APBS1075	APBS1076	APBS1077	APBS1078	APBS1078	APBS1079	APBS1080	APBS1081	APBS1082																																																																
Sample Name:	APBS1073S001	APBS1074S001	APBS1075S001	APBS1076S001	APBS1077S001	APBS1078S001	APBS1078S001SP	APBS1079S001	APBS1080S001	APBS1081S001	APBS1082S001																																																																
Collection Date:	6/17/2009	6/17/2009	6/17/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	8/25/2009	2/8/2010																																																																
Sample Depth (feet):	0 - 0.3	0 - 0.3	0 - 0.3	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5																																																																
Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place																																																																
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT																																																												
METALS																																																																											
Cadmium	mg/kg	1	1	--	--	--	--	--	--	--	--	--	--	--	--																																																												
Copper	mg/kg	29	29	--	--	--	--	--	--	--	--	--	--	--	--																																																												
Lead	mg/kg	34	34	--	--	--	--	--	--	--	--	--	--	--	--																																																												
Mercury	mg/kg	0.09	0.09	--	--	--	--	--	--	--	--	--	--	--	--																																																												
DIOXINS																																																																											
TCDD TEQ	pg/g	0.87	3.0	--	--	4.43	12.82	1.28	1.29	0.71	1.73	1.40	3.71	0.90	10.22																																																												

INTERIM SOURCE REMOVAL ACTION (ISRA) - OUTFALL 009

TABLE A-15 OUTFALL 009 DATA GAP AND SOURCE DELINEATION SAMPLE RESULTS – AP/STP-1
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

						Object Name:	APBS1083	APBS1084	APBS1085	APBS1086	APBS1087	APBS1088	BTBS1017	BTBS1017	BTBS1018	BTBS1018
						Sample Name:	APBS1083S001	APBS1084S001	APBS1085S001	APBS1086S001	APBS1087S001	APBS1088S001	BTBS1017S001	BTBS1017S002	BTBS1018S001	BTBS1018S002
						Collection Date:	2/8/2010	2/8/2010	2/8/2010	2/8/2010	2/8/2010	2/8/2010	4/1/2009	4/1/2009	4/1/2009	4/1/2009
						Sample Depth (feet):	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.1	2.5 - 3	0 - 0.5	2.5 - 3
						Status:	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place	In Place
ANALYTE	UNITS	BG ^a	ISRA SRG ^b	Lowest RBSL ^c	RBSL Type	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT	RESULT
METALS																
Cadmium	mg/kg	1	1	--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	mg/kg	29	29	--	--	--	--	--	--	--	--	--	--	--	--	--
Lead	mg/kg	34	34	--	--	--	--	--	--	--	--	--	--	--	--	--
Mercury	mg/kg	0.09	0.09	--	--	--	--	--	--	--	--	--	--	--	--	--
DIOXINS																
TCDD TEQ	pg/g	0.87	3.0	--	--	1.54	1.14	0.28	0.34	0.28	0.53	0.33	0.42	0.47	0.42	

AP/STP FOOTNOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY

Notes:

Sample Exceeds the 2005 Background Comparison Concentration (MWH, 2005)

J - Result is estimated

mg/kg - milligrams per kilogram

pg/g - picograms per gram

TCDD TEQ - tetrachlorobenzo-p-dioxin toxic equivalent (normalized to 2,3,7,8-TCDD)

"--" - not analyzed

Dioxins / TCDD TEQ - A sum of 17 dioxin / furan congener results adjusted for toxicity. The TEQ is calculated by multiplying the result of each congener by its respective World Health Organization's (WHO's) toxic equivalency factor (TEF), which is based on the relative potency of the congener to cause a toxic response relative to 2,3,7,8-TCDD. TCDD