

**FIRST QUARTER 2009 REASONABLE POTENTIAL ANALYSIS SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

1. The following Reasonable Potential Analysis (RPA) provides the analytical results as performed by the procedures outlined in *Reasonable Potential Analysis Methodology Technical Memo* (MWH and Flow Science, 2006).
2. The monitoring data set utilized to conduct the RPA consists of all applicable and relevant data from August 2004 through the present reporting quarter.
3. As directed by the CTR and the Regional Water Control Board 2,3,7,8-TCDD (Dioxin) values are to be expressed in NPDES permitting and this RPA as TCDD Total Equivalence units (TEQs). A TCDD TEQ is determined by multiplying each of the seventeen dioxin and furan congeners by their respective total equivalence factor (TEF), and summing the results of those products. For the purposes of this RPA, the resulting TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 46, Section D of the NPDES Permit Effective April 28, 2006, and Page 56, Section D of the NPDES Permit Effective December 20, 2007.
4. In calculating the average, standard deviation, coefficient of variation, and projected maximum effluent concentration (99/99), one-half of the MDL was used for concentration results reported as ND. Data reported with qualifiers were not included in this RPA as Boeing believes qualified data are not "appropriate, valid, relevant, (nor) representative"<sup>1</sup> of storm water constituents and are therefore not utilized in its RPA.
5. All of the following abbreviations and/or notes may not occur on every table.

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Definition of Acronyms, Abbreviations, and Terminology Used

>=	Greater than or equal to
*	Freshwater aquatic life criteria for metals are expressed as a function of total hardness (mg/L) in the water body. The equations are provided in the CTR, (US EPA, 2000). Values displayed correspond to a total hardness of 100 mg/l.
µg/L	Concentration units, micrograms per liter
All Data Qualified	All available monitoring data are qualified and no statistical analysis is performed.
Annually	The 2007 NPDES Permit requires annual monitoring.
Available Data < DL	All available monitoring data that are not qualified are below detection limits.
B	Background
C	Concentration
CCC	Criterion Continuous Concentration
CMC	Criterion Maximum Concentration
CTR	California Toxics Rule
CV	Coefficient of Variation
DL	Detection Limit
EPA TSD	EPA's Technical Support Document for Water Quality Based Toxics Control, (see references).

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<sup>1</sup> SIP, p. 5.

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Definition of Acronyms, Abbreviations, and Terminology Used (Continued)

Fibers/L	Units for asbestos concentration, fibers per liter
HH O	Human Health criteria for consumption of Organisms only

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Nonpriority Pollutant RPA Column Explanation (Continued)

Step 1, Determine Water Quality Objectives	The water quality objective is based on appropriate Basin Plan criteria.
BU – Beneficial Use Protection, NC – Human noncarcinogen, AP- Aquatic Life Protection, TMDL – Total Maximum Daily Load	This is the Regional Board’s Basis for determining if reasonable potential should be evaluated for a non-priority pollutant.

Note: Boeing SSFL has completed appropriate statis

**Table F1  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 001, 002, 011, 018, 019)**

**FIRST QUARTER 2009  
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Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH	Title 22 GWR		Step 2		Step 4		
												Yes	No	Yes	No	
1_2_11_18	001	Antimony	ug/L	0.65	0.6	NONE	NONE	14	4300	6	6	Yes	Yes	NA	NA	No
				All Data												
1_2_11_18	002	Arsenic	ug/L	Qualified	0.6	340	150	NONE	NONE	50	50	No	No	No	NA	No
				All Data												
1_2_11_18	003	Beryllium	ug/L	Qualified	0.6	NONE	NONE	Narrative	Narrative	4	4	No	No	No	NA	No
1_2_11_18	004	Cadmium	ug/L	0.18	0.6		2.46	Narrative	Narrative	5	2.46	Yes	Yes	NA	NA	No
1_2_11_18	005a	Chromium	ug/L	25	0.6		206.98	Narrative	Narrative	NONE	206.98	Yes	Yes	NA	NA	No
				Available Data												
1_2_11_18	005b	Chromium VI	ug/L	<DL	0.6	16.29	11.43	Narrative	Narrative	50	11.43	Yes	No	No	NA	No
1_2_11_18	006	Copper	ug/L	10	0.6		9.33	1300	NONE	NONE	9.33	Yes	Yes	NA	NA	Yes
1_2_11_18	007	Lead	ug/L	11	0.6		3.18	Narrative	Narrative	NONE	3.18	Yes	Yes	NA	NA	Yes



**Table F1  
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Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C					C = Lowest C1riteria	Step 2 Is Effluent Data Available	Step 3		Step 4 MEC >= C	
						CTR CRITERIA				Basin Plan Title 22 GWR			Was Constituent Detected in Effluent Data	Are all Detection Limits > C		If DL > C, MEC = Min (DL)
						Freshwater CMC = Acute	Human Health CCC = Chronic	Human Health HH W&O (Not App)	Human Health HH O = HH							
1_2_11_18	054	Phenol	ug/L	Available Data <DL	0.6	NONE	NONE	21000	4600000	NONE	4600000	Yes	No	No	NA	No
1_2_11_18	055	2,4,6-Trichlorophenol	ug/L	Available Data <DL	0.6	NONE	NONE	2.1	6.5	NONE	6.5	Yes	No	No	NA	No
1_2_11_18	056	Acenaphthene	ug/L	Available Data <DL	0.6	NONE	NONE	1200	2700	NONE	2700	Yes	No	No	NA	No
1_2_11_18	057	Acenaphthylene	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No
1_2_11_18	058	Anthracene	ug/L	Available Data <DL	0.6	NONE	NONE	9600	110000	NONE	110000	Yes	No	No	NA	No
1_2_11_18	059	Benzidine	ug/L	Available Data <DL	0.6	NONE	NONE	0.00012	0.00054	NONE	0.00054	Yes	No	Yes	0.00054	No
1_2_11_18	060	Benzo(a)Anthracene	ug/L	Available Data <DL	0.6	NONE	NONE	0.0044	0.049	NONE	0.049	Yes	No	Yes	0.049	No
1_2_11_18	061	Benzo(a)Pyrene	ug/L	Available Data <DL	0.6	NONE	NONE	0.0044	0.049	NONE	0.049	Yes	No	Yes	0.049	No
1_2_11_18	062	Benzo(b)Fluoranthene	ug/L	Available Data <DL	0.6	NONE	NONE	0.0044	0.049	NONE	0.049	Yes	No	Yes	0.049	No
1_2_11_18	063	Benzo(g,h,i)Perylene	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No
1_2_11_18	064	Benzo(k)Fluoranthene	ug/L	Available Data <DL	0.6	NONE	NONE	0.0044	0.049	NONE	0.049	Yes	No	Yes	0.049	No
1_2_11_18	065	Bis(2-Chloroethoxy) methane	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No
1_2_11_18	066	bis (2-Chloroethyl) ether	ug/L	Available Data <DL	0.6	NONE	NONE	0.031	1.4	NONE	1.4	Yes	No	No	NA	No
1_2_11_18	067	Bis(2-Chloroisopropyl) Ether	ug/L	Available Data <DL	0.6	NONE	NONE	1400	170000	NONE	170000	Yes	No	No	NA	No
1_2_11_18	068	bis (2-ethylhexyl) Phthalate	ug/L	Available Data <DL	0.6	NONE	NONE	1.8	5.9	4	4	Yes	No	No	NA	No
1_2_11_18	069	4-Bromophenylphenylether	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No
1_2_11_18	070	Butylbenzylphthalate	ug/L	1.3	0.6	NONE	NONE	3000	5200	NONE	5200	Yes	Yes	NA	NA	No
1_2_11_18	071	2-Chloronaphthalene	ug/L	Available Data <DL	0.6	NONE	NONE	1700	4300	NONE	4300	Yes	No	No	NA	No
1_2_11_18	072	4-Chlorophenylphenylether	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No
1_2_11_18	073	Chrysene	ug/L	Available Data <DL	0.6	NONE	NONE	0.0044	0.049	NONE	0.049	Yes	No	Yes	0.049	No
1_2_11_18	074	Dibenzo(a,h)Anthracene	ug/L	Available Data <DL	0.6	NONE	NONE	0.0044	0.049	NONE	0.049	Yes	No	Yes	0.049	No
1_2_11_18	075	1,2-Dichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	2700	17000	600	600	Yes	No	No	NA	No
1_2_11_18	076	1,3-Dichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	400	2600	NONE	2600	Yes	No	No	NA	No
1_2_11_18	077	1,4-Dichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	400	2600	5	5	Yes	No	No	NA	No





**Table F1  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 001, 002, 011, 018, 019)**

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						Step 1: Water Quality Criteria, Determine C						Step 2	Step 3			Step 4		
						CTR CRITERIA						Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health										
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH									
1_2_11_18	103	alpha-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	0.0039	0.013	NONE	0.013	No	No	No	NA	No		
1_2_11_18	104	beta-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	0.014	0.046	NONE	0.046	No	No	No	NA	No		
1_2_11_18	105	Lindane (gamma-BHC)	ug/L	All Data Qualified	0.6	0.95	NONE	0.019	0.063	0.2	0.063	No	No	No	NA	No		
1_2_11_18	106	delta-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE	NONE	NONE	No	No	No	NA	No		
1_2_11_18	107	Chlordane	ug/L	All Data Qualified	0.6	2.4	0.0043	0.00057	0.00059	NONE	0.00059	No	No	No	NA	No		
1_2_11_18	108	4,4'-DDT	ug/L	All Data Qualified	0.6	1.1	0.001	0.00059	0.00059	NONE	0.00059	No	No	No	NA	No		
1_2_11_18	109	4,4'-DDE	ug/L	All Data Qualified	0.6	NONE	NONE	0.00059	0.00059	NONE	0.00059	No	No	No	NA	No		
1_2_11_18	110	4,4'-DDD	ug/L	All Data Qualified	0.6	NONE	NONE	0.00083	0.00084	NONE	0.00084	No	No	No	NA	No		
1_2_11_18	111	Dieldrin	ug/L	All Data Qualified	0.6	0.24	0.056	0.00014	0.00014	NONE	0.00014	No	No	No	NA	No		
1_2_11_18	112	Endosulfan I	ug/L	All Data Qualified	0.6	0.22	0.056	110	240	NONE	0.056	No	No	No	NA	No		
1_2_11_18	113	Endosulfan II	ug/L	All Data Qualified	0.6	0.22	0.056	110	240	NONE	0.056	No	No	No	NA	No		
1_2_11_18	114	Endosulfan Sulfate	ug/L	All Data Qualified	0.6	NONE	NONE	110	240	NONE	240	No	No	No	NA	No		
1_2_11_18	115	Endrin	ug/L	All Data Qualified	0.6	0.086	0.036	0.76	0.81	NONE	0.036	No	No	No	NA	No		
1_2_11_18	116	Endrin Aldehyde	ug/L	All Data Qualified	0.6	NONE	NONE	0.76	0.81	NONE	0.81	No	No	No	NA	No		
1_2_11_18	117	Heptachlor	ug/L	All Data Qualified	0.6	0.52	0.0038	0.00021	0.00021	NONE	0.00021	No	No	No	NA	No		
1_2_11_18	118	Heptachlor Epoxide	ug/L	All Data Qualified	0.6	0.52	0.0038	0.0001	0.00011	NONE	0.00011	No	No	No	NA	No		
1_2_11_18	119	Aroclor-1016	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	120	Aroclor-1221	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	121	Aroclor-1232	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	122	Aroclor-1242	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	123	Aroclor-1248	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	124	Aroclor-1254	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	125	Aroclor-1260	ug/L	Available Data <DL	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	Yes	No	Yes	0.00017	No		
1_2_11_18	126	Toxaphene	ug/L	All Data Qualified	0.6	0.73	0.0002	0.0073	0.00075	NONE	0.0002	No	No	No	NA	No		

**Table F2  
REASONABLE POTENTIAL ANALYSIS FOR SECONDARY POLLUTANTS (OUTFALLS 001, 002, 011, 018, 019)**

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Outfall	Constituent	Monitoring	Units	Number of Samples	MEC	CV	Multiplier	Projected Maximum	Dilution Ratio	Background Concentration	Projected	Step 1, Determine	BU - Beneficial use
								Effluent Concentration (99/99)			Maximum Receiving Water Concentration		Water Quality Objectives
1_2_11_18	Barium	Annual	mg/L	4	0.13	0.6	4.74	0.62	0	0	0.62	1000	BU
1_2_11_18	Biochemical Oxygen Demand (BOD 5 day)	Discharge	mg/L	4	3.4	0.6	4.74	16.10	0	0	16.10	20	BU
1_2_11_18	Chloride	Discharge	mg/L	4	14	0.6	4.74	66.30	0	0	66.30	150	BU
1_2_11_18	Fluoride	Annual	mg/L	4	0.2	0.6	4.74	0.95	0	0	0.95	1.6	BU
1_2_11_18	Nitrate + Nitrite as Nitrogen (N)	Discharge	mg/L	4	2.7	0.6	4.74	12.79	0	0	12.79	8	BU/TMDL
1_2_11_18	Oil & Grease	Discharge	mg/L	4	2	0.6	4.74	9.47	0	0	9.47	10	BU
1_2_11_18	Sulfate	Discharge	mg/L	4	39	0.6	4.74	184.71	0	0	184.71	300	BU
1_2_11_18	Surfactants (MBAS)	Discharge	mg/L	4	0.097	0.6	4.74	0.46	0	0	0.46	0.5	BU
1_2_11_18	Total Dissolved Solids	Discharge	mg/L	4	220	0.6	4.74	1041.93	0	0	1041.93	150	BU

**Table F3  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)**

**FIRST QUARTER 2009  
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											<b>Step 2</b>				<b>Step 4</b>	
<b>Outfall</b>	<b>CTR</b>	<b>Constituent</b>	<b>Units</b>	<b>MEC</b>	<b>CV</b>	<b>CMC = Acute</b>	<b>CCC = Chronic</b>	<b>HH W&amp;O (Not App)</b>	<b>HH O = HH</b>	<b>Title 22 GWR</b>						
3_7,10	001	Antimony	ug/L	0.58 All Data	0.6	NONE	NONE	14	4300	6	6	Yes	Yes	NA	NA	No
3_7,10	002	Arsenic	ug/L	Qualified All Data	0.6	340	150	NONE	NONE	50	50	No	No	No	NA	No
3_7,10	003	Beryllium	ug/L	Qualified All Data	0.6	NONE	NONE	Narrative	Narrative	4	4	No	No	No	NA	No
3_7,10	004	Cadmium	ug/L	0.18	0.6		2.46	Narrative	Narrative	5	2.46	Yes	Yes	NA	NA	No
3_7,10	005a	Chromium	ug/L	5 All Data	0.6		206.98	Narrative	Narrative	NONE	206.98	Yes	Yes	NA	NA	No
3_7,10	005b	Chromium VI	ug/L	Qualified	0.6	16.293279022	11.43	Narrative	Narrative	50	11.43	No	No	No	NA	No
3_7,10	006	Copper	ug/L	7.6	0.58		9.33	1300	NONE	NONE	9.33	Yes	Yes	NA	NA	No
3_7,10	007	Lead	ug/L	20 All Data	1.52		3.18	Narrative	Narrative	NONE	3.18	Yes	Yes	NA	NA	Yes
3_7,10	008	Mercury	ug/L	Qualified All Data	0.6	Reserved	Reserved	0.05	0.051	2	0.051	No	No	No	NA	No
3_7,10	009	Nickel	ug/L	Qualified All Data	0.6		52.16	610	4600	100	52.16	No	No	No	NA	No
3_7,10	010	Selenium	ug/L	Qualified All Data	0.6	Reserved	5	Narrative	Narrative	50	5	No	No	No	NA	No
3_7,10	011	Silver	ug/L	Qualified	0.6		none	NONE	NONE		4.06	No	No	No	NA	No
3_7,10	012	Thallium	ug/L	0.31	0.6	NONE	NONE	1.7	6.3	2	2	Yes	Yes	NA	NA	No
3_7,10	013	Zinc	ug/L	22	0.6		119.82	none	NONE	NONE	119.82	Yes	Yes	NA	NA	No
3_7,10	014	Total Cyanide	ug/L	9.6	0.6	22	5.2	700	220000	200	5.2	Yes	Yes	N		

**Table F3  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)**

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					Step 1: Water Quality Criteria, Determine C						Step 2	Step 3			Step 4	
					CTR CRITERIA				Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C	
Outfall	CTR	Constituent	Units	MEC	CV	Freshwater CMC = Acute	Human Health CCC = Chronic	HH W&O (Not App)								HH O = HH
3_7,10	028	1,1-Dichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	5	5	Yes	No	No	NA	No
3_7,10	029	1,2-Dichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.38	99	0.5	0.5	Yes	No	No	NA	No
3_7,10	030	1,1-Dichloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	0.057	3.2	6	3.2	Yes	No	No	NA	No
3_7,10	031	1,2-Dichloropropane	ug/L	Available Data <DL	0.6	NONE	NONE	0.52	39	5	5	Yes	No	No	NA	No
3_7,10	032	1,3-Dichloropropene (Total)	ug/L	All Data Qualified	0.6	NONE	NONE	10	1700	0.5	0.5	No	No	No	NA	No
3_7,10	033	Ethylbenzene	ug/L	Available Data <DL	0.6	NONE	NONE	3100	29000	0.7	0.7	Yes	No	No	NA	No
3_7,10	034	Bromomethane	ug/L	Available Data <DL	0.6	NONE	NONE	48	4000	NONE	4000	Yes	No	No	NA	No
3_7,10	035	Chloromethane	ug/L	Available Data <DL	0.6	NONE	NONE	Narrative	Narrative	NONE	NONE	Yes	No	No	NA	No
3_7,10	036	Methylene chloride	ug/L	Available Data <DL	0.6	NONE	NONE	4.7	1600	NONE	1600	Yes	No	No	NA	No
3_7,10	037	1,1,2,2-Tetrachloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.17	11	1	1	Yes	No	No	NA	No
3_7,10	038	Tetrachloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	0.8	8.85	5	5	Yes	No	No	NA	No
3_7,10	039	Toluene	ug/L	Available Data <DL	0.6	NONE	NONE	6800	200000	150	150	Yes	No	No	NA	No
3_7,10	040	trans-1,2-Dichloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	700	140000	10	10	Yes	No	No	NA	No
3_7,10	041	1,1,1-Trichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	Narrative	Narrative	200	200	Yes	No	No	NA	No
3_7,10	042	1,1,2-trichloroethane	ug/L	Available Data <DL	0.6	NONE	NONE	0.6	42	5	5	Yes	No	No	NA	No
3_7,10	043	Trichloroethene	ug/L	Available Data <DL	0.6	NONE	NONE	Available Data 2.7	1-946287.7(5)-6870.5(5)-5577.2(Yes)-5876.9(No)-6108.3(No)-5615(NA)-5464.2(No)TD[3_7,10)-2341.4(043)-931.5(043)							

**Table F3**  
**REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)**

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						CTR CRITERIA						Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health										
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH									
3_7,10	100	Pyrene	ug/L	Available Data <DL	0.6	NONE	NONE	960	11000	NONE	11000	Yes	No	No	NA	No		
3_7,10	101	1,2,4-Trichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No		
3_7,10	102	Aldrin	ug/L	Available Data <DL	0.6	3	NONE	0.00013	0.00014	NONE	0.00014	Yes	No	Yes	0.00014	No		
3_7,10	103	alpha-BHC	ug/L	Available Data <DL	0.6	NONE	NONE	0.0039	0.013	NONE	0.013	Yes	No	No	NA	No		
3_7,10	104	beta-BHC	ug/L	Available Data <DL	0.6	NONE	NONE	0.014	0.046	NONE	0.046	Yes	No	No	NA	No		
3_7,10	105	Lindane (gamma-BHC)	ug/L	Available Data <DL	0.6	0.95	NONE	0.019	0.063	0.2	0.063	Yes	No	No	NA	No		
3_7,10	106	delta-BHC	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No		
3_7,10	107	Chlordane	ug/L	Available Data <DL	0.6	2.4	0.0043	0.00057	0.00059	NONE	0.00059	Yes	No	Yes	0.00059	No		
3_7,10	108	4,4'-DDT	ug/L	Available Data <DL	0.6	1.1	0.001	0.00059	0.00059	NONE	0.00059	Yes	No	Yes	0.00059	No		
3_7,10	109	4,4'-DDE	ug/L	Available Data <DL	0.6	NONE	NONE	0.00059	0.00059	NONE	0.00059	Yes	No	Yes	0.00059	No		
3_7,10	110	4,4'-DDD	ug/L	Available Data <DL	0.6	NONE	NONE	0.00083	0.00084	NONE	0.00084	Yes	No	Yes	0.00084	No		
3_7,10	111	Dieldrin	ug/L	Available Data <DL	0.6	0.24	0.056	0.00014	0.00014	NONE	0.00014	Yes	No	Yes	0.00014	No		
3_7,10	112	Endosulfan I	ug/L	Available Data <DL	0.6	0.22	0.056	110	240	NONE	0.056	Yes	No	No	NA	No		
3_7,10	113	Endosulfan II	ug/L	Available Data <DL	0.6	0.22	0.056	110	240	NONE	0.056	Yes	No	No	NA	No		
3_7,10	114	Endosulfan Sulfate	ug/L	Available Data <DL	0.6	NONE	NONE	110	240	NONE	240	Yes	No	No	NA	No		
3_7,10	115	Endrin	ug/L	Available Data <DL	0.6	0.086	0.036	0.76	0.81	NONE	0.036	Yes	No	No	NA	No		
3_7,10	116	Endrin Aldehyde	ug/L	Available Data <DL	0.6	NONE	NONE	0.76	0.81	NONE	0.81	Yes	No	No	NA	No		
3_7,10	117	Heptachlor	ug/L	Available Data <DL	0.6	0.52	0.0038	0.00021	0.00021	NONE	0.00021	Yes	No	Yes	0.00021	No		
3_7,10	118	Heptachlor Epoxide	ug/L	Available Data <DL	0.6	0.52	0.0038	0.0001	0.00011	NONE	0.00011	Yes	No	Yes	0.00011	No		
3_7,10	119	Aroclor-1016	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
3_7,10	120	Aroclor-1221	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
3_7,10	121	Aroclor-1232	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
3_7,10	122	Aroclor-1242	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
3_7,10	123	Aroclor-1248	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		

**Table F3  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)**

**FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C					C = Lowest Criteria	Step 2 Is Effluent Data Available	Step 3			Step 4 MEC >= C
						CTR CRITERIA				Basin Plan Title 22 GWR			Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	
						Freshwater CMC = Acute	Human Health CCC = Chronic	HH W&O (Not App)	HH O = HH							
3_7,10	124	Aroclor-1254	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
3_7,10	125	Aroclor-1260	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
3_7,10	126	Toxaphene	ug/L	Available Data <DL	0.6	0.73	0.0002	0.0073	0.00075	NONE	0.0002	Yes	No	Yes	0.0002	No
8	001	Antimony	ug/L	0.35	0.6	NONE	NONE	14	4300	6	6	Yes	Yes	NA	NA	No
8	002	Arsenic	ug/L	All Data Qualified	0.6	340	150	NONE	NONE	50	50	No	No	No	NA	No
8	003	Beryllium	ug/L	All Data Qualified	0.6	NONE	NONE	Narrative	Narrative	4	4	No	No	No	NA	No
8	004	Cadmium	ug/L	Available Data <DL	0.6		2.46	Narrative	Narrative	5	2.46	Yes	No	No	NA	No
8	005a	Chromium	ug/L	All Data Qualified	0.6		206.98	Narrative	Narrative	NONE	206.98	No	No	No	NA	No
8	005b	Chromium VI	ug/L	All Data Qualified	0.6	16.29	11.43	Narrative	Narrative	50	11.43	No	No	No	NA	No
8	006	Copper	ug/L	4.1	0.6		9.33	1300	NONE	NONE	9.33	Yes	Yes	NA	NA	No
8	007	Lead	ug/L	2.6	0.6		3.18	Narrative	Narrative	NONE	3.18	Yes	Yes	NA	NA	No
8	008	Mercury	ug/L	All Data Qualified	0.6	Reserved	Reserved	0.05	0.051	2	0.051	No	No	No	NA	No
8	009	Nickel	ug/L	All Data Qualified	0.6		52.16	610	4600	100	52.16	No	No	No	NA	No
8	010	Selenium	ug/L	Available Data <DL	0.6	Reserved	5	Narrative	Narrative	50	5	Yes	No	No	NA	No
8	011	Silver	ug/L	All Data Qualified	0.6		none	NONE	NONE	NONE	4.06	No	No	No	NA	No
8	012	Thallium	ug/L	Available Data <DL	0.6	NONE	NONE	1.7	6.3	2	2	Yes	No	No	NA	No
8	013	Zinc	ug/L	All Data Qualified	0.6		119.82	none	NONE		119.82	No	No	No	NA	No
8	014	Total Cyanide	ug/L	8.7	0.6	22	5.2	700	220000	200	5.2	Yes	Yes	NA	NA	Yes
8	015	Asbestos	Fibers/L	All Data Qualified	0.6	NONE	NONE	7000000	NONE	7x10^6	700000	No	No	No	NA	No
8	016	TCDD TEQ_NoDNQ	ug/L	1.51E-08	0.6	NONE	NONE	1.3e-008	1.4e-008	3x10^-5	1.40E-08	Yes	Yes	NA	NA	Yes
8	017	Acrolein	ug/L	All Data Qualified	0.6	NONE	NONE	320	780	NONE	780	No	No	No	NA	No
8	018	Acrylonitrile	ug/L	All Data Qualified	0.6	NONE	NONE	0.059	0.66	NONE	0.66	No	No	No	NA	No
8	019	Benzene	ug/L	Available Data <DL	0.6	NONE	NONE	1.2	71	1	1	Yes	No	No	NA	No
8	020	Bromoform	ug/L	Available Data <DL	0.6	NONE	NONE	4.3	360	NONE	360	Yes	No	No	NA	No
8	021	Carbon Tetrachloride	ug/L	Available Data <DL	0.6	NONE	NONE	0.25	4.4	600	4.4	Yes	No	No	NA	No
8	022	Chlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	680	21000	NONE	21000	Yes	No	No	NA	No





Table F3  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)

FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

Step 2

Step 4

Outfall

**Table F3**  
**REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)**

Table F3  
 REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)

FIRST QUARTER 2009  
 THE BOEING COMPANY  
 SANTA SUSANA FIELD LABORATORY  
 NPDES PERMIT CA0001309

Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C				C = Lowest Criteria	Step 2 Is Effluent Data Available	Step 3 Was Constituent Detected in Effluent Data	Step 3 Are all Detection Limits > C	If DL > C, MEC = Min (DL)	Step 4 MEC >= C
						Freshwater CTR CRITERIA		Human Health							
						CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH						

**Table F3  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 003-007, 010, 008)**

**FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4	
						CTR CRITERIA				Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health								
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH							
8	119	Aroclor-1016	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	120	Aroclor-1221	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	121	Aroclor-1232	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	122	Aroclor-1242	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	123	Aroclor-1248	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	124	Aroclor-1254	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	125	Aroclor-1260	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
8	126	Toxaphene	ug/L	All Data Qualified	0.6	0.73	0.0002	0.0073	0.00075	NONE	0.0002	No	No	No	NA	No



**Table F5**  
**REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 012, 013, 014)**

**FIRST QUARTER 2009**  
**THE BOEING COMPANY**  
**SANTA SUSANA FIELD LABORATORY**  
**NPDES PERMIT CA0001309**

Outfall	CTR	Constituent	Units	MEC	CV	Step 1: Water Quality Criteria, Determine C						Step 2	Step 3			Step 4
						CTR CRITERIA				Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater CMC = Acute	Human Health CCC = Chronic	HH W&O (Not App)	HH O = HH							
12_14	001	Antimony	ug/L	3.3	0.6	NONE	NONE	14	4300	6	6	Yes	Yes	NA	NA	No
12_14	002	Arsenic	ug/L	17	0.6	340	150	NONE	NONE	50	50	Yes	Yes	NA	NA	No
12_14	003	Beryllium	ug/L	All Data Qualified	0.6	NONE	NONE	Narrative	Narrative	4	4	No	No	No	NA	No
12_14	004	Cadmium	ug/L	1	0.6		2.46	Narrative	Narrative	5	2.46	Yes	Yes	NA	NA	No
12_14	005a	Chromium	ug/L	All Data Qualified	0.6		206.98	Narrative	Narrative	NONE	206.98	No	No	No	NA	No
12_14	005b	Chromium VI	ug/L	Qualified	0.6	16.29	11.43	Narrative	Narrative	50	11.43	No	No	No	NA	No
12_14	006	Copper	ug/L	3.8	0.6		9.33	1300	NONE	NONE	9.33	Yes	Yes	NA	NA	No
12_14	007	Lead	ug/L	2.6	0.6		3.18	Narrative	Narrative	NONE	3.18	Yes	Yes	NA	NA	No
12_14	008	Mercury	ug/L	0.064	0.6	Reserved	Reserved	0.05	0.051	2	0.05	Yes	Yes	NA	NA	Yes
12_14	009	Nickel	ug/L	All Data Qualified	0.6		52.16	610	4600	100	52.16	No	No	No	NA	No
12_14	010	Selenium	ug/L	0.43	0.6	Reserved	5	Narrative	Narrative	50	5	Yes	Yes	NA	NA	No
12_14	011	Silver	ug/L	All Data Qualified	0.6		none	NONE	NONE	NONE	4.06	No	No	No	NA	No
12_14	012	Thallium	ug/L	All Data Qualified	0.6	NONE	NONE	1.7	6.3	2	2	No	No	No	NA	No
12_14	013	Zinc	ug/L	35	0.6		119.82	none	NONE		119.82	Yes	Yes	NA	NA	No
12_14	014	Total Cyanide	ug/L	Available Data <DL	0.6	22	5.2	700	220000	200	5.2	Yes	No	No	NA	No
12_14	015	Asbestos	Fibers/L	All Data Qualified	0.6	NONE	NONE	7000000	NONE	7x10^6	700000	No	No	No	NA	No
12_14	016	TCDD TEQ_NoDNQ	ug/L	7.45E-07	0.6	NONE	NONE	1.3e-008	1.4e-008	3x10^-5	1.40E-08	Yes	Yes	NA	NA	Yes
12_14	017	Acrolein	ug/L	All Data Qualified	0.6	NONE	NONE	320	780	NONE	780	No	No	No	NA	No
12_14	018	Acrylonitrile	ug/L	All Data Qualified	0.6	NONE	NONE	0.059	0.66	NONE	0.66	No	No	No	NA	No
12_14	019	Benzene	ug/L	All Data Qualified	0.6	NONE	NONE	1.2	71	1	1	No	No	No	NA	No
12_14	020	Bromoform	ug/L	All Data Qualified	0.6	NONE	NONE	4.3	360	NONE	360	No	No	No	NA	No
12_14	021	Carbon Tetrachloride	ug/L	All Data Qualified	0.6	NONE	NONE	0.25	4.4	600	4.4	No	No	No	NA	No
12_14	022	Chlorobenzene	ug/L	All Data Qualified	0.6	NONE	NONE	680	21000	NONE	21000	No	No	No	NA	No
12_14	023	Dibromochloromethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.401	34	NONE	34	No	No	No	NA	No
12_14	024	Chloroethane	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE	NONE	NONE	No	No	No	NA	No
12_14	025	2-Chloroethylvinylether	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE	NONE	NONE	No	No	No	NA	No
12_14	026	Chloroform	ug/L	All Data Qualified	0.6	NONE	NONE	Reserved	Reserved	NONE	NONE	No	No	No	NA	No
12_14	027	Bromodichloromethane	ug/L	All Data Qualified	0.6	NONE	NONE	0.56	46	NONE	46	No	No	No	NA	No

Table F5  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 012, 013, 014)

FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

Step 2

Step 4

Outfall CTR Constituent

Units

MEC

CV

CMC = Acute

CCC = Chronic

HH W&O (Not App)

HH O = HH

Title 22 GWR

MEC >= C



**Table F5  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 012, 013, 014)**

**FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Step 2**

**Step 4**

**Outfall**

Table F5  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 012, 013, 014)

FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

Step 2

Step 4

Outfall CTR Constituent

Units

MEC

CV

CMC = Acute

CCC = Chronic

HH W&O (Not App)

HH O = HH

Title 22 GWR

MEC >= C

**Table F5  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 012, 013, 014)**

**FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C						Step 2	Step 3			Step 4		
						CTR CRITERIA						Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater			Human Health									
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH									
12_14	100	Pyrene	ug/L	Available Data <DL	0.6	NONE	NONE	960	11000	NONE	11000	Yes	No	No	NA	No		
12_14	101	1,2,4-Trichlorobenzene	ug/L	Available Data <DL	0.6	NONE	NONE	NONE	NONE	NONE	NONE	Yes	No	No	NA	No		
12_14	102	Aldrin	ug/L	All Data Qualified	0.6	3	NONE	0.00013	0.00014	NONE	0.00014	No	No	No	NA	No		
12_14	103	alpha-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	0.0039	0.013	NONE	0.013	No	No	No	NA	No		
12_14	104	beta-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	0.014	0.046	NONE	0.046	No	No	No	NA	No		
12_14	105	Lindane (gamma-BHC)	ug/L	All Data Qualified	0.6	0.95	NONE	0.019	0.063	0.2	0.063	No	No	No	NA	No		
12_14	106	delta-BHC	ug/L	All Data Qualified	0.6	NONE	NONE	NONE	NONE	NONE	NONE	No	No	No	NA	No		
12_14	107	Chlordane	ug/L	All Data Qualified	0.6	2.4	0.0043	0.00057	0.00059	NONE	0.00059	No	No	No	NA	No		
12_14	108	4,4'-DDT	ug/L	All Data Qualified	0.6	1.1	0.001	0.00059	0.00059	NONE	0.00059	No	No	No	NA	No		
12_14	109	4,4'-DDE	ug/L	All Data Qualified	0.6	NONE	NONE	0.00059	0.00059	NONE	0.00059	No	No	No	NA	No		
12_14	110	4,4'-DDD	ug/L	All Data Qualified	0.6	NONE	NONE	0.00083	0.00084	NONE	0.00084	No	No	No	NA	No		
12_14	111	Dieldrin	ug/L	All Data Qualified	0.6	0.24	0.056	0.00014	0.00014	NONE	0.00014	No	No	No	NA	No		
12_14	112	Endosulfan I	ug/L	All Data Qualified	0.6	0.22	0.056	110	240	NONE	0.056	No	No	No	NA	No		
12_14	113	Endosulfan II	ug/L	All Data Qualified	0.6	0.22	0.056	110	240	NONE	0.056	No	No	No	NA	No		
12_14	114	Endosulfan Sulfate	ug/L	All Data Qualified	0.6	NONE	NONE	110	240	NONE	240	No	No	No	NA	No		
12_14	115	Endrin	ug/L	All Data Qualified	0.6	0.086	0.036	0.76	0.81	NONE	0.036	No	No	No	NA	No		
12_14	116	Endrin Aldehyde	ug/L	All Data Qualified	0.6	NONE	NONE	0.76	0.81	NONE	0.81	No	No	No	NA	No		
12_14	117	Heptachlor	ug/L	All Data Qualified	0.6	0.52	0.0038	0.00021	0.00021	NONE	0.00021	No	No	No	NA	No		
12_14	118	Heptachlor Epoxide	ug/L	All Data Qualified	0.6	0.52	0.0038	0.0001	0.00011	NONE	0.00011	No	No	No	NA	No		
12_14	119	Aroclor-1016	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
12_14	120	Aroclor-1221	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
12_14	121	Aroclor-1232	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
12_14	122	Aroclor-1242	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		
12_14	123	Aroclor-1248	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No		

**Table F5  
REASONABLE POTENTIAL ANALYSIS FOR PRIORITY POLLUTANTS (OUTFALLS 012, 013, 014)**

**FIRST QUARTER 2009  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

						Step 1: Water Quality Criteria, Determine C					Step 2	Step 3			Step 4	
						CTR CRITERIA				Basin Plan Title 22 GWR	C = Lowest Criteria	Is Effluent Data Available	Was Constituent Detected in Effluent Data	Are all Detection Limits > C	If DL > C, MEC = Min (DL)	MEC >= C
						Freshwater		Human Health								
Outfall	CTR	Constituent	Units	MEC	CV	CMC = Acute	CCC = Chronic	HH W&O (Not App)	HH O = HH							
12_14	124	Aroclor-1254	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
12_14	125	Aroclor-1260	ug/L	All Data Qualified	0.6	NONE	0.014	0.00017	0.00017	NONE	0.00017	No	No	No	NA	No
12_14	126	Toxaphene	ug/L	All Data Qualified	0.6	0.73	0.0002	0.0073	0.00075	NONE	0.0002	No	No	No	NA	No