

**FOURTH QUARTER 2008 REPORTING SUMMARY NOTES  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Notes:**

1. For Dioxins and Furans, laboratory results may have been reported in picograms/liter (pg/L). However, the permit limit is stated in micrograms/liter (µg/L). To evaluate permit compliance, the laboratory results have been converted to µg/L, as necessary, to calculate the TCDD TEQ.
2. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's TEF. The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 40 of the NPDES permit.
3. For some sample dates, pH was determined with a field instrument and was noted as such. These results were not validated. Since pH does not have an RL, the possible pH range is shown in the RL column.
4. The NPDES permit limit or benchmark limit for mercury of 0.10 µg/L (Outfalls 001, 002, 011, 018 and 019) and 0.13 µg/L (Outfalls 003-010) are not achievable by the laboratory; therefore, the laboratory reporting limit of 0.20 µg/L was used to determine compliance.
5. All of the following abbreviations and/or notes may not occur on every table.

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-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition
\$	reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	based on validation of the data, a qualifier was not required
-/-	no permit limit established for daily maximum or monthly average
<(value)	analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
*	result not validated
*1	improper preservation of sample
*2	the ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)
*3	initial and or continuing calibration recoveries were outside acceptable control limits
*5	blank spike/blank spike duplicate relative percent difference was outside the control limit

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*10	value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values
*11	no calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
*II, *III	unusual problems found with the data that have been described in Section II, "Sample Management," or Section III, "Method Analysis." The number following the asterisk (*) will indicate the report section where a description of the problem can be found
ANR	analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed (annual, semi-annual, etc.)
B	laboratory method blank contamination
C	calibration %RSD or %D were noncompliant
C5	Calibration verification %R was outside method control limits
%D	percent difference between the initial and continuing calibration relative response factors
deg F	degrees Fahrenheit
DL	detection limit
DNQ	detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less than the laboratory reporting limit)
E	duplicates show poor agreement
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	estimated value
K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	the laboratory control sample %R was below the method control limits
L	laboratory control sample %R was outside control limits
LOD	limit of detection
M1	matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	the MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDL	method detection limit
MGD	million gallons per day
MHA*	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	milligrams per liter
ml/L/hr	milliliters per liter per hour
NA	not applicable; no permit limit established for the constituent and/or outfall

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ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
p	relative percent difference (RPD) is outside control limits
pCi/L	picocuries per liter
pg/L	picograms per liter
Q	matrix spike recovery outside of control limits
R	as a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%RSD	percent relative standard deviation
S	surrogate recovery was outside control limits
TEQ	toxic equivalent
T	presumed contamination, as indicated by a detect in the trip blank
TU <sub>c</sub>	toxicity units (chronic)
U	result not detected
µg/L	micrograms per liter
UJ	result not detected at the estimated reporting limit
umhos/cm	micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
^	analysis not completed due to hold time exceedence or insufficient sample volume

## OUTFALL 004 (SRE)

### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Chloride	mg/L	150/-	31	*
Fluoride	mg/L	1.6/-	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	0.37	*
Oil & Grease	mg/L	15/-	3.3	B, J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	9.1	*
Sulfate	mg/L	250/-	11	*
Temperature	deg. F	86/-	48	*
Total Cyanide	ug/L	-/-	ANR	ANR
Total Dissolved Solids	mg/L	850/-	140	*
Total Suspended Solids	mg/L	-/-	ANR	ANR
Volume Discharged	MGD	17.8/-	0.00044	*
<b>METALS</b>				
Aluminum	ug/L	-/-	ANR	ANR
Antimony	ug/L	6.0/-	0.40	J* (DNQ)
Antimony, dissolved	ug/L	-/-	0.39	B, J* (DNQ)
Arsenic	ug/L	-/-	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR
Cadmium	ug/L	4.0/-	ND < 0.11	*
Cadmium, dissolved	ug/L	-/-	ND < 0.11	*
Chromium	ug/L	-/-	ANR	ANR
Copper	ug/L	14.0/-	2.7	*
Copper, dissolved	ug/L	-/-	1.3	B, J* (DNQ)
Lead	ug/L	5.2/-	0.96	J* (DNQ)
Lead, dissolved	ug/L	-/-	ND < 0.30	*
Mercury	ug/L	0.13/-	ND < 0.027	U
Mercury, dissolved	ug/L	-/-	ND < 0.027	U
Nickel	ug/L	100/-	ANR	ANR
Selenium	ug/L	-/-	ANR	ANR
Silver	ug/L	-/-	ANR	ANR
Thallium	ug/L	2.0/-	ND < 0.20	*
Thallium, dissolved	ug/L	-/-	ND < 0.20	*
Vanadium	ug/L	-/-	ANR	ANR
Zinc	ug/L	-/-	ANR	ANR
<b>ORGANICS</b>				
Benzene	ug/L	-/-	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR

See attached notes for abbreviations, definitions and other explanations for the data presented.

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### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
1,1-Dichloroethane	ug/L	-/-	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR
<b>ADDITIONAL ANALYTES</b>				
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR

See attached notes for abbreviations, definitions and other explanations for the data presented.

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### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Acrolein	ug/L	-/-	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR
Benzo(g,h,l)perylene	ug/L	-/-	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR
Chronic Toxicity	TUC	1.0/-	>1.0	*
Chrysene	ug/L	-/-	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR

**OUTFALL 004 (SRE)**

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NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Dimethylphthalate	ug/L	-/-	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR

**OUTFALL 004 (SRE)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
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Sample Date December 15, 2008

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>TCDD Equivalent (w/DNQ Values) (ug/L)</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	1.14E-05	J (DNQ)	0.01	1.14E-07	ND
1,2,3,4,6,7,8-HpCDF	2.60E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	1.83E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	4.09E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	8.83E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	3.99E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	1.10E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	3.75E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	1.98E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	2.08E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	1.32E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.34E-06	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	1.50E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	6.93E-07	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	5.77E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	1.71E-04	--	0.0001	1.71E-08	1.71E-08
OCDF	0.00E+00	5.00E-05	5.16E-06	J (DNQ)	0.0001	5.16E-10	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>1.32E-07</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>1.71E-08</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.



**OUTFALL 004 (SRE)**

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**December 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	0.114	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	0.0014	*
Oil & Grease	LBS/DAY	2,227/-	0.012	B, J* (DNQ)
Perchlorate	LBS/DAY	0.89/-	ND	*
Sulfate	LBS/DAY	37,113/-	0.04	*
Total Dissolved Solids	LBS/DAY	126,184/-	0.51	*
Antimony	LBS/DAY	0.89/-	0.0000015	J* (DNQ)
Cadmium	LBS/DAY	0.59/-	ND	*
Copper	LBS/DAY	2.08/-	0.0000099	*
Lead	LBS/DAY	0.77/-	0.0000035	J* (DNQ)
Mercury	LBS/DAY	0.02/-	ND	U
Thallium	LBS/DAY	0.3/-	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	6.28E-14	--

**OUTFALL 004 (SRE)  
BMP EFFECTIVENESS**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
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October 1 through December 31, 2008

		<b>004 EFF-1 12/15/2008 4:00:00 AM</b>	<b>004 EFF-2 12/15/2008 5:00:00 AM</b>	<b>004 EFF-3 12/15/2008 6:00:00 AM</b>	<b>004 EFF-4 12/15/2008 7:00:00 AM</b>	<b>004 EFF-5 12/15/2008 8:00:00 AM</b>
<b>ANALYTE</b>	<b>UNITS</b>					
Density	g/cc	0.93*	0.96*	0.94*	0.93*	0.94*
Sediment	mg/L	27*	14*	12*	15*	16*

		<b>004 EFF-6 12/15/2008 9:00:00 AM</b>	<b>004 EFF-7 12/15/2008 10:00:00 AM</b>	<b>004 EFF-8 12/15/2008 11:00:00 AM</b>	<b>004 EFF-9 12/15/2008 12:00:00 PM</b>
<b>ANALYTE</b>	<b>UNITS</b>				
Density	g/cc	0.95*	0.95*	0.94*	0.94*
Sediment	mg/L	14*	ND <10*	ND <10*	17*

**OUTFALL 006 (FSDF-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
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NPDES PERMIT CA0001309**

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Chloride	mg/L	150/-	44	*	23	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	6.4	*	6.4	*
Oil & Grease	mg/L	15/-	2.9	J* (DNQ)	3.9	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.90	*	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	6.0	*	6.5	*
Sulfate	mg/L	250/-	47	*	18	*
Temperature	deg. F	86/-	57	*	52	*
Total Cyanide	ug/L	-/-	ANR	ANR	ANR	ANR
Total Dissolved Solids	mg/L	850/-	280	*	160	*
Total Suspended Solids	mg/L	-/-	ANR	ANR	ANR	ANR
Volume Discharged	MGD	17.8/-	0.003465	*	0.0155	*
<b>METALS</b>						
Aluminum	ug/L	-/-	ANR	ANR	ANR	ANR
Antimony	ug/L	6.0/-	0.37	J* (DNQ)	0.39	J* (DNQ)
Antimony, dissolved	ug/L	-/-	0.36	J* (DNQ)	0.47	B, J* (DNQ)
Arsenic	ug/L	-/-	ANR	ANR	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR	ANR	ANR
Cadmium	ug/L	4.0/-	0.22	J* (DNQ)	0.11	J* (DNQ)
Cadmium, dissolved	ug/L	-/-	0.36	J* (DNQ)	ND < 0.11	*
Chromium	ug/L	-/-	ANR	ANR	ANR	ANR
Copper	ug/L	14.0/-	2.7	B*	2.0	*
Copper, dissolved	ug/L	-/-	1.1	J* (DNQ)	1.1	B, J* (DNQ)
Lead	ug/L	5.2/-	1.5	*	1.1	*
Lead, dissolved	ug/L	-/-	ND < 0.30	*	ND < 0.30	*
Mercury	ug/L	0.13/-	ND < 0.027	UJ (*III)	ND < 0.027	U
Mercury, dissolved	ug/L	-/-	ND < 0.027	UJ (*III)	ND < 0.027	U
Nickel	ug/L	100/-	ANR	ANR	ANR	ANR
Selenium	ug/L	-/-	ANR	ANR	ANR	ANR
Silver	ug/L	-/-	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ND < 0.20	*	ND < 0.20	*
Thallium, dissolved	ug/L	-/-	ND < 0.20	*	ND < 0.20	*
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR
Zinc	ug/L	-/-	ANR	ANR	ANR	ANR
<b>ORGANICS</b>						
Benzene	ug/L	-/-	ANR	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 006 (FSDF-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>						
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 006 (FSDF-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	1.0	*	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 006 (FSDF-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 006 (FSDF-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Sample Date November 26, 2008

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	TCDD Equivalent (w/DNQ Values) (ug/L)	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	1.11E-05	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,6,7,8-HpCDF	1.84E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	2.40E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	3.81E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	9.21E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	3.39E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	1.05E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	3.33E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	1.42E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	2.17E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	1.29E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.06E-06	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	1.45E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	1.11E-06	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	8.52E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	5.02E-05	--	0.0001	5.02E-09	5.02E-09
OCDF	4.91E-06	5.00E-05	ND	U	0.0001	ND	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>5.02E-09</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>5.02E-09</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 006 (FSDf-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Date December 15, 2008**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>TCDD Equivalent (w/DNQ Values) (ug/L)</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	5.00E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,6,7,8-HpCDF	1.56E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	1.96E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	2.85E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	7.72E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	2.77E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	8.49E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	2.61E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	1.52E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	3.26E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	2.14E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	9.96E-07	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	2.16E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	6.54E-07	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	5.68E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	2.97E-05	J (DNQ)	0.0001	2.97E-09	ND
OCDF	2.12E-06	5.00E-05	ND	U	0.0001	ND	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>2.97E-09</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>ND</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.



**OUTFALL 006 (FSDF-2)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**November 1 through November 30, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	1.27	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	0.18	*
Oil & Grease	LBS/DAY	2,227/-	0.084	J* (DNQ)
Perchlorate	LBS/DAY	0.89/-	ND	*
Sulfate	LBS/DAY	37,113/-	1.36	*
Total Dissolved Solids	LBS/DAY	126,184/-	8.09	*
Antimony	LBS/DAY	0.89/-	0.000011	J* (DNQ)
Cadmium	LBS/DAY	0.59/-	0.0000064	J* (DNQ)
Copper	LBS/DAY	2.08/-	0.000078	B*
Lead	LBS/DAY	0.77/-	0.000043	*
Mercury	LBS/DAY	0.02/-	ND	UJ (*III)
Thallium	LBS/DAY	0.3/-	ND	*
TCDD TEQ_ NoDNQ	LBS/DAY	4.2E-09/-	1.45E-13	--

## OUTFALL 006 (FSDF-2)

### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

December 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	2.97	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	0.83	*
Oil & Grease	LBS/DAY	2,227/-	0.50	J* (DNQ)
Sulfate	LBS/DAY	37,113/-	2.33	*
Total Dissolved Solids	LBS/DAY	126,184/-	20.68	*
Antimony	LBS/DAY	0.89/-	0.000050	J* (DNQ)
Cadmium	LBS/DAY	0.59/-	0.000014	J* (DNQ)
Copper	LBS/DAY	2.08/-	0.00026	*
Lead	LBS/DAY	0.77/-	0.00014	*
Mercury	LBS/DAY	0.02/-	ND	U
Thallium	LBS/DAY	0.3/-	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	ND	--

**OUTFALL 004 (SRE)  
BMP EFFECTIVENESS**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

		<b>004 EFF-1 12/15/2008 4:00:00 AM</b>	<b>004 EFF-2 12/15/2008 5:00:00 AM</b>	<b>004 EFF-3 12/15/2008 6:00:00 AM</b>	<b>004 EFF-4 12/15/2008 7:00:00 AM</b>	<b>004 EFF-5 12/15/2008 8:00:00 AM</b>
<b>ANALYTE</b>	<b>UNITS</b>					
Density	g/cc	0.93*	0.96*	0.94*	0.93*	0.94*
Sediment	mg/L	27*	14*	12*	15*	16*

		<b>004 EFF-6 12/15/2008 9:00:00 AM</b>	<b>004 EFF-7 12/15/2008 10:00:00 AM</b>	<b>004 EFF-8 12/15/2008 11:00:00 AM</b>	<b>004 EFF-9 12/15/2008 12:00:00 PM</b>
<b>ANALYTE</b>	<b>UNITS</b>				
Density	g/cc	0.95*	0.95*	0.94*	0.94*
Sediment	mg/L	14*	ND <10*	ND <10*	17*

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Chloride	mg/L	150/-	5.6	*	11	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	0.95	*	0.87	*
Oil & Grease	mg/L	15/-	2.8	J* (DNQ)	3.9	B, J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.90	*	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	7.2	*	7.2	*
Sulfate	mg/L	250/-	23	*	10	*
Temperature	deg. F	86/-	55	*	47	*
Total Cyanide	ug/L	-/-	ANR	ANR	ANR	ANR
Total Dissolved Solids	mg/L	850/-	110	*	100	*
Total Suspended Solids	mg/L	-/-	ANR	ANR	ANR	ANR
Volume Discharged	MGD	17.8/-	0.06926	*	0.408315	*
<b>METALS</b>						
Aluminum	ug/L	-/-	ANR	ANR	ANR	ANR
Antimony	ug/L	6.0/-	0.59	J* (DNQ)	ND < 2.0	U (B)
Antimony, dissolved	ug/L	-/-	0.50	J* (DNQ)	ND < 2.0	U (B)
Arsenic	ug/L	-/-	ANR	ANR	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR	ANR	ANR
Cadmium	ug/L	4.0/-	0.64	J* (DNQ)	0.54	J (DNQ)
Cadmium, dissolved	ug/L	-/-	ND < 0.11	*	0.14	J (DNQ)
Chromium	ug/L	-/-	ANR	ANR	ANR	ANR
Copper	ug/L	14.0/-	6.7	B*	12	--
Copper, dissolved	ug/L	-/-	4.8	*	ND < 5.2	U (B)
Lead	ug/L	5.2/-	2.5	*	19	--
Lead, dissolved	ug/L	-/-	0.42	J* (DNQ)	1.1	--
Mercury	ug/L	0.13/-	0.055	J (*III, DNQ)	0.073	J (DNQ)
Mercury, dissolved	ug/L	-/-	ND < 0.027	UJ (*III)	ND < 0.027	U
Nickel	ug/L	100/-	ANR	ANR	ANR	ANR
Selenium	ug/L	-/-	ANR	ANR	ANR	ANR
Silver	ug/L	-/-	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ND < 0.20	*	ND < 0.20	U
Thallium, dissolved	ug/L	-/-	ND < 0.20	*	ND < 0.20	U
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR
Zinc	ug/L	-/-	ANR	ANR	ANR	ANR
<b>ORGANICS</b>						
Benzene	ug/L	-/-	ANR	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>						
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(g,h,l)perylene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	1.0	*	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Date November 26, 2008**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>TCDD Equivalent (w/DNQ Values) (ug/L)</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	3.56E-05	--	0.01	3.56E-07	3.56E-07
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	6.39E-06	J (DNQ)	0.01	6.39E-08	ND
1,2,3,4,7,8,9-HpCDF	2.41E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	4.71E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	1.61E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	4.48E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	1.73E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	4.27E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	2.48E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	1.73E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	1.70E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.96E-06	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	1.93E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	1.05E-06	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	1.09E-06	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	4.28E-04	--	0.0001	4.28E-08	4.28E-08
OCDF	0.00E+00	5.00E-05	2.45E-05	J (DNQ)	0.0001	2.45E-09	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>4.65E-07</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>3.99E-07</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.



**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Date December 15, 2008**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>TCDD Equivalent (w/DNQ Values) (ug/L)</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	1.38E-04	--	0.01	<b>1.38E-06</b>	<b>1.38E-06</b>
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	2.96E-05	--	0.01	<b>2.96E-07</b>	<b>2.96E-07</b>
1,2,3,4,7,8,9-HpCDF	3.06E-06	2.50E-05	ND	U	0.01	<b>ND</b>	<b>ND</b>
1,2,3,4,7,8-HxCDD	5.16E-06	2.50E-05	ND	U	0.1	<b>ND</b>	<b>ND</b>
1,2,3,4,7,8-HxCDF	2.00E-06	2.50E-05	ND	U	0.1	<b>ND</b>	<b>ND</b>
1,2,3,6,7,8-HxCDD	0.00E+00	2.50E-05	6.81E-06	J (DNQ)	0.1	<b>6.81E-07</b>	<b>ND</b>
1,2,3,6,7,8-HxCDF	2.43E-06	2.50E-05	ND	U	0.1	<b>ND</b>	<b>ND</b>
1,2,3,7,8,9-HxCDD	5.48E-06	2.50E-05	ND	U	0.1	<b>ND</b>	<b>ND</b>
1,2,3,7,8,9-HxCDF	1.38E-06	2.50E-05	ND	U	0.1	<b>ND</b>	<b>ND</b>
1,2,3,7,8-PeCDD	5.23E-06	2.50E-05	ND	U	1	<b>ND</b>	<b>ND</b>
1,2,3,7,8-PeCDF	2.13E-06	2.50E-05	ND	U	0.05	<b>ND</b>	<b>ND</b>
2,3,4,6,7,8-HxCDF	2.96E-06	2.50E-05	ND	U	0.1	<b>ND</b>	<b>ND</b>
2,3,4,7,8-PeCDF	2.42E-06	2.50E-05	ND	U	0.5	<b>ND</b>	<b>ND</b>
2,3,7,8-TCDD	8.56E-07	5.00E-06	ND	U	1	<b>ND</b>	<b>ND</b>
2,3,7,8-TCDF	9.24E-07	5.00E-06	ND	U	0.1	<b>ND</b>	<b>ND</b>
OCDD	0.00E+00	5.00E-05	1.44E-03	--	0.0001	<b>1.44E-07</b>	<b>1.44E-07</b>
OCDF	0.00E+00	5.00E-05	8.49E-05	--	0.0001	<b>8.49E-09</b>	<b>8.49E-09</b>

<b>TCDD TEQ w/ DNQ Values</b>	<b>2.51E-06</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>1.83E-06</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**November 1 through November 30, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	3.23	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	0.55	*
Oil & Grease	LBS/DAY	2,227/-	1.62	J* (DNQ)
Perchlorate	LBS/DAY	0.89/-	ND	*
Sulfate	LBS/DAY	37,113/-	13.29	*
Total Dissolved Solids	LBS/DAY	126,184/-	63.54	*
Antimony	LBS/DAY	0.89/-	0.00034	J* (DNQ)
Cadmium	LBS/DAY	0.59/-	0.00037	J* (DNQ)
Copper	LBS/DAY	2.08/-	0.0039	B*
Lead	LBS/DAY	0.77/-	0.0014	*
Mercury	LBS/DAY	0.02/-	0.000032	J (*III, DNQ)
Thallium	LBS/DAY	0.3/-	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	2.30E-10	--

**OUTFALL 009 (WS-13 Drainage)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**December 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	37.46	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	2.96	*
Oil & Grease	LBS/DAY	2,227/-	13.28	B, J* (DNQ)
Sulfate	LBS/DAY	37,113/-	34.05	*
Total Dissolved Solids	LBS/DAY	126,184/-	340.53	*
Antimony	LBS/DAY	0.89/-	ND	U (B)
Cadmium	LBS/DAY	0.59/-	0.0018	J (DNQ)
Copper	LBS/DAY	2.08/-	0.041	--
Lead	LBS/DAY	0.77/-	0.065	--
Mercury	LBS/DAY	0.02/-	0.00025	J (DNQ)
Thallium	LBS/DAY	0.3/-	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	6.23E-09	--

**OUTFALL 009 (WS- Drainage)**

**BENCHMARK SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Date February 3, 2008**

<b>ANALYTE</b>	<b>UNITS</b>	<b>DAILY MASS BENCHMARK LIMIT</b>	<b>DAILY MASS RESULT</b>	<b>CONCENTRATION RESULT VALIDATION QUALIFIER</b>
TCDD TEQ_NoDNQ	lbs/dy	4.2E-09/-	6.23E-09	--

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Chloride	mg/L	150/-	41	*	32	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	3.0	*	1.2	*
Oil & Grease	mg/L	15/-	1.7	J* (DNQ)	3.3	B, J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.90	*	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	7.3	*	7.0	*
Sulfate	mg/L	250/-	42	*	24	*
Temperature	deg. F	86/-	61	*	50	*
Total Cyanide	ug/L	-/-	ANR	ANR	ANR	ANR
Total Dissolved Solids	mg/L	850/-	310	*	190	*
Total Suspended Solids	mg/L	-/-	ANR	ANR	ANR	ANR
Volume Discharged	MGD	17.8/-	0.00128	*	0.00702	*
<b>METALS</b>						
Aluminum	ug/L	-/-	ANR	ANR	ANR	ANR
Antimony	ug/L	6.0/-	0.67	J* (DNQ)	0.36	J* (DNQ)
Antimony, dissolved	ug/L	-/-	0.58	J* (DNQ)	0.52	B, J* (DNQ)
Arsenic	ug/L	-/-	ANR	ANR	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR	ANR	ANR
Cadmium	ug/L	4.0/-	0.24	J* (DNQ)	ND < 0.11	*
Cadmium, dissolved	ug/L	-/-	0.12	J* (DNQ)	ND < 0.11	*
Chromium	ug/L	-/-	ANR	ANR	ANR	ANR
Copper	ug/L	14.0/-	5.8	B*	1.5	J* (DNQ)
Copper, dissolved	ug/L	-/-	3.1	*	1.1	B, J* (DNQ)
Lead	ug/L	5.2/-	2.0	*	0.53	J* (DNQ)
Lead, dissolved	ug/L	-/-	ND < 0.30	*	ND < 0.30	*
Mercury	ug/L	0.13/-	ND < 0.027	UJ (*III)	ND < 0.027	U
Mercury, dissolved	ug/L	-/-	ND < 0.027	UJ (*III)	ND < 0.027	U
Nickel	ug/L	100/-	ANR	ANR	ANR	ANR
Selenium	ug/L	-/-	ANR	ANR	ANR	ANR
Silver	ug/L	-/-	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ND < 0.20	*	ND < 0.20	*
Thallium, dissolved	ug/L	-/-	ND < 0.20	*	ND < 0.20	*
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR
Zinc	ug/L	-/-	ANR	ANR	ANR	ANR
<b>ORGANICS</b>						
Benzene	ug/L	-/-	ANR	ANR	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Xylenes (Total)	ug/L	-/-	ANR	ANR	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
Trichlorofluoromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>						
1,1,1,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	1.0	*	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR

**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008		12/15/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR



**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Date November 26, 2008**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>TCDD Equivalent (w/DNQ Values) (ug/L)</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	1.22E-05	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,6,7,8-HpCDF	4.85E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	3.90E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	4.83E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	1.17E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	4.33E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	1.30E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	4.24E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	2.05E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	4.83E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	2.50E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.49E-06	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	2.44E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	1.03E-06	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	9.62E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	6.86E-05	--	0.0001	6.86E-09	6.86E-09
OCDF	2.11E-05	5.00E-05	ND	U	0.0001	ND	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>6.86E-09</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>6.86E-09</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Date December 15, 2008**

<b>ANALYTE</b>	<b>LAB LOD (ug/L)</b>	<b>LAB RL (ug/L)</b>	<b>LAB RESULT (ug/L)</b>	<b>VALIDATION QUALIFIER</b>	<b>1998 WHO TEF</b>	<b>TCDD Equivalent (w/DNQ Values) (ug/L)</b>	<b>TCDD Equivalent (w/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	1.23E-05	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,6,7,8-HpCDF	2.69E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	3.30E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	2.88E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	7.71E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	2.57E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	8.98E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	2.52E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	1.67E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	1.67E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	1.12E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.10E-06	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	1.17E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	5.44E-07	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	5.40E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	6.01E-05	--	0.0001	6.01E-09	6.01E-09
OCDF	1.27E-05	5.00E-05	ND	U	0.0001	ND	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>6.01E-09</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>6.01E-09</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

## OUTFALL 010 (Building 203)

### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

November 1 through November 30, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/26/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	0.44	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	0.03	*
Oil & Grease	LBS/DAY	2,227/-	0.02	J* (DNQ)
Perchlorate	LBS/DAY	0.89/-	ND	*
Sulfate	LBS/DAY	37,113/-	0.45	*
Total Dissolved Solids	LBS/DAY	126,184/-	3.31	*
Antimony	LBS/DAY	0.89/-	0.0000072	J* (DNQ)
Cadmium	LBS/DAY	0.59/-	0.0000026	J* (DNQ)
Copper	LBS/DAY	2.08/-	0.000062	B*
Lead	LBS/DAY	0.77/-	0.000021	*
Mercury	LBS/DAY	0.02/-	ND	UJ (*III)
Thallium	LBS/DAY	0.3/-	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	7.32E-14	--

**OUTFALL 010 (Building 203)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**December 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	1.87	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	0.070	*
Oil & Grease	LBS/DAY	2,227/-	0.19	B, J* (DNQ)
Sulfate	LBS/DAY	37,113/-	1.41	*
Total Dissolved Solids	LBS/DAY	126,184/-	11.12	*
Antimony	LBS/DAY	0.89/-	0.000021	J* (DNQ)
Cadmium	LBS/DAY	0.59/-	ND	*
Copper	LBS/DAY	2.08/-	0.000088	J* (DNQ)
Lead	LBS/DAY	0.77/-	0.000031	J* (DNQ)
Mercury	LBS/DAY	0.02/-	ND	U
Thallium	LBS/DAY	0.3/-	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	3.52E-13	--

**OUTFALL 010 (Building 203)  
BMP EFFECTIVENESS**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

October 1 through December 31, 2008

		<b>010 EFF-1 11/26/2008 9:15:00 AM</b>	<b>010 EFF-1 12/15/2008 7:30:00 AM</b>	<b>010 EFF-2 12/15/2008 8:30:00 AM</b>	<b>010 EFF-3 12/15/2008 9:30:00 AM</b>	<b>010 EFF-4 12/15/2008 10:30:00 AM</b>
<b>ANALYTE</b>	<b>UNITS</b>					
Density	g/cc	0.99*	0.99*	0.98*	0.98*	0.98*
Sediment	mg/L	ND <10*	ND <10*	ND <10*	ND <10*	10*

		<b>010 EFF-5 12/15/2008 11:30:00 AM</b>	<b>010 EFF-6 12/15/2008 12:30:00 PM</b>	<b>010 EFF-7 12/15/2008 1:30:00 PM</b>	<b>010 EFF-8 12/15/2008 2:30:00 PM</b>	<b>010 EFF-9 12/15/2008 3:30:00 PM</b>
<b>ANALYTE</b>	<b>UNITS</b>					
Density	g/cc	0.99*	0.98*	0.99*	0.98*	0.97*
Sediment	mg/L	ND <10*	ND <10*	ND <10*	ND <10*	ND <10*

## OUTFALL 013 (Bravo Test Stand)

### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	1.4	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	-/-	3.0	--
Chloride	mg/L	150/-	16	*
Fluoride	mg/L	1.6/-	0.17	B*
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	2.1	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	2.1	*
Nitrite-N	mg/L	1.0/-	ND < 0.090	*
Oil & Grease	mg/L	15/-	3.3	B, J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	7.8	*
Total Settleable Solids	ml/L	0.3/-	0.10	pH*
Sulfate	mg/L	300/-	8.4	*
Temperature	deg. F	86/-	51	*
Total Cyanide	ug/L	-/-	ANR	ANR
Total Dissolved Solids	mg/L	950/-	91	*
Total Suspended Solids	mg/L	45/-	1.0	J* (DNQ)
Turbidity	NTU	-/-	0.67	J (DNQ)
Volume Discharged	MGD	0.004/-	ANR	ANR
<b>METALS</b>				
Antimony	ug/L	-/-	ANR	ANR
Arsenic	ug/L	-/-	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR
Boron	mg/L	1.0/-	ND < 0.020	*
Boron, dissolved	mg/L	-/-	ND < 0.020	*
Cadmium	ug/L	3.1/-	2.5	*
Cadmium, dissolved	ug/L	-/-	ND < 0.11	*
Chromium	ug/L	-/-	ANR	ANR
Copper	ug/L	13.5/-	4.9	*
Copper, dissolved	ug/L	-/-	1.3	B, J* (DNQ)
Lead	ug/L	5.2/-	2.2	*
Lead, dissolved	ug/L	-/-	ND < 0.30	*
Mercury	ug/L	0.10/-	ND < 0.027	UJ (Q)
Mercury, dissolved	ug/L	-/-	ND < 0.027	UJ (Q)
Nickel	ug/L	-/-	ANR	ANR
Selenium	ug/L	-/-	ND < 0.30	*
Selenium, dissolved	ug/L	-/-	ND < 0.30	*
Silver	ug/L	-/-	ANR	ANR
Thallium	ug/L	-/-	ANR	ANR
Zinc	ug/L	159/-	79	*

See attached notes for abbreviations, definitions and other explanations for the data presented.

## OUTFALL 013 (Bravo Test Stand)

### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Zinc, dissolved	ug/L	-/-	3.8	B, J* (DNQ)
<b>ORGANICS</b>				
Benzene	ug/L	-/-	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR
1,4-Dioxane	ug/L	3/-	ND < 1.0	*
Ethylbenzene	ug/L	-/-	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR
<b>TPH</b>				
EFH (C13 - C22)	mg/L	0.1/-	ANR	ANR
DRO (C13 - C28)	mg/L	0.1/-	0.055	J* (DNQ)
GRO (C4 - C12)	mg/L	0.1/-	ND < 0.030	*
TRPH	mg/L	0.1/-	ANR	ANR
<b>ADDITIONAL ANALYTES</b>				
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR
1,2,3-Trichloropropane	ug/L	-/-	ND < 0.40	*
1,2-Dibromoethane (EDB)	ug/L	50/-	ND < 0.40	*
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR

See attached notes for abbreviations, definitions and other explanations for the data presented.

**OUTFALL 013 (Bravo Test Stand)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
2-Chlorophenol	ug/L	-/-	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR



## OUTFALL 013 (Bravo Test Stand)

### FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Chlordane	ug/L	-/-	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR
Diisopropyl ether	ug/L	-/-	ND < 0.25	*
Dimethylphthalate	ug/L	-/-	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	ND < 0.32	*
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR
Naphthalene	ug/L	21/-	ND < 2.9	*
Nitrobenzene	ug/L	-/-	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ND < 2.4	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR

See attached notes for abbreviations, definitions and other explanations for the data presented.

**OUTFALL 013 (Bravo Test Stand)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/15/2008	
			RESULT	VALIDATION QUALIFIER
Phenanthrene	ug/L	-/-	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR
tertiary Butyl Alcohol	ug/L	12/-	ND < 6.5	*
Toxaphene	ug/L	-/-	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR

**OUTFALL 013 (Bravo Test Stand)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Sample Date December 15, 2008

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	TCDD Equivalent (w/DNQ Values) (ug/L)	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	7.06E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,6,7,8-HpCDF	2.04E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	2.83E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	4.04E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	1.38E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	3.91E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	1.42E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	3.70E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	2.69E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	2.49E-06	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	2.04E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.74E-06	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	2.23E-06	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	8.37E-07	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	7.35E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	3.14E-05	J (DNQ)	0.0001	3.14E-09	ND
OCDF	7.49E-06	5.00E-05	ND	U	0.0001	ND	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>3.14E-09</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>ND</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

## OUTFALL 014 (APTF)

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309  
October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/4/2008	
			RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ND < 0.50	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	-/-	1.8	J* (DNQ)
Chloride	mg/L	150/-	26	*
Fluoride	mg/L	1.6/-	0.38	*
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	9.3	--
Nitrate as Nitrogen (N)	mg/L	8.0/-	9.3	--
Nitrite-N	mg/L	1.0/-	ND < 0.090	*
Oil & Grease	mg/L	15/-	1.4	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	6.6	*
Total Settleable Solids	ml/L	0.3/-	ND < 0.10	*
Sulfate	mg/L	300/-	22	*
Temperature	deg. F	86/-	55	*
Total Cyanide	ug/L	-/-	ANR	ANR
Total Dissolved Solids	mg/L	950/-	210	*
Total Suspended Solids	mg/L	45/-	ND < 10	*
Turbidity	NTU	-/-	10	--
Volume Discharged	MGD	0.004/-	ANR	ANR
<b>METALS</b>				
Antimony	ug/L	-/-	ANR	ANR
Arsenic	ug/L	-/-	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR
Boron	mg/L	1.0/-	0.14	B*
Boron, dissolved	mg/L	-/-	0.14	*
Cadmium	ug/L	3.1/-	0.56	J* (DNQ)
Cadmium, dissolved	ug/L	-/-	0.56	J* (DNQ)
Chromium	ug/L	-/-	ANR	ANR
Copper	ug/L	13.5/-	2.0	*
Copper, dissolved	ug/L	-/-	1.3	J* (DNQ)
Lead	ug/L	5.2/-	0.84	J* (DNQ)
Lead, dissolved	ug/L	-/-	ND < 0.30	*
Mercury	ug/L	0.10/-	ND < 0.027	UJ (Q)
Mercury, dissolved	ug/L	-/-	ND < 0.027	U
Nickel	ug/L	-/-	ANR	ANR
Selenium	ug/L	-/-	0.32	J* (DNQ)
Selenium, dissolved	ug/L	-/-	ND < 0.30	*
Silver	ug/L	-/-	ANR	ANR
Thallium	ug/L	-/-	ANR	ANR
Zinc	ug/L	159/-	19	B, J* (DNQ)

See attached notes for abbreviations, definitions and other explanations for the data presented.

# OUTFALL 014 (APTF)

## FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309 October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/4/2008	
			RESULT	VALIDATION QUALIFIER
Zinc, dissolved	ug/L	-/-	24	*
<b>ORGANICS</b>				
Benzene	ug/L	-/-	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR
1,4-Dioxane	ug/L	3/-	ND < 1.0	*
Ethylbenzene	ug/L	-/-	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR
Xylenes (Total)	ug/L	-/-	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR
<b>TPH</b>				
EFH (C13 - C22)	mg/L	0.1/-	ANR	ANR
DRO (C13 - C28)	mg/L	0.1/-	ND < 0.094	*
GRO (C4 - C12)	mg/L	0.1/-	ND < 0.030	*
TRPH	mg/L	0.1/-	ANR	ANR
<b>ADDITIONAL ANALYTES</b>				
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR
1,2,3-Trichloropropane	ug/L	-/-	ND < 0.40	*
1,2-Dibromoethane (EDB)	ug/L	50/-	ND < 0.40	*
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR

# OUTFALL 014 (APTF)

## FOURTH QUARTER 2008 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309 October 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/4/2008	
			RESULT	VALIDATION QUALIFIER
2-Chlorophenol	ug/L	-/-	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR
Benzo(g,h,l)perylene	ug/L	-/-	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR

## OUTFALL 014 (APTF)

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309  
October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/4/2008	
			RESULT	VALIDATION QUALIFIER
Chlordane	ug/L	-/-	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR
Diisopropyl ether	ug/L	-/-	ND < 0.25	*
Dimethylphthalate	ug/L	-/-	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR
Hydrazine	ug/L	-/-	ND < 0.15	U
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ND < 0.315	U
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	ND < 0.32	*
Monomethyl Hydrazine	ug/L	-/-	ND < 0.561	U
Naphthalene	ug/L	21/-	ND < 2.8	*
Nitrobenzene	ug/L	-/-	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ND < 2.4	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR

See attached notes for abbreviations, definitions and other explanations for the data presented.

**OUTFALL 014 (APTF)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309  
October 1 through December 31, 2008**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	11/4/2008	
			RESULT	VALIDATION QUALIFIER
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR
tertiary Butyl Alcohol	ug/L	12/-	ND < 6.5	*
Toxaphene	ug/L	-/-	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR



**OUTFALL 014 (APTF)**

**FOURTH QUARTER 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

Sample Date November 4, 2008

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	TCDD Equivalent (w/DNQ Values) (ug/L)	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	0.00E+00	2.50E-05	2.33E-05	J (DNQ)	0.01	2.33E-07	ND
1,2,3,4,6,7,8-HpCDF	0.00E+00	2.50E-05	1.69E-06	J (DNQ)	0.01	1.69E-08	ND
1,2,3,4,7,8,9-HpCDF	2.02E-07	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	0.00E+00	6.88E-07	ND	UJ (*III)	0.1	ND	ND
1,2,3,4,7,8-HxCDF	9.70E-08	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	0.00E+00	2.50E-05	1.02E-06	J (DNQ)	0.1	1.02E-07	ND
1,2,3,6,7,8-HxCDF	1.01E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	0.00E+00	1.11E-06	ND	UJ (*III)	0.1	ND	ND
1,2,3,7,8,9-HxCDF	1.40E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	1.72E-07	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	1.13E-07	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	1.10E-07	2.50E-05	ND	U	0.1	ND	ND
2,3,4,7,8-PeCDF	1.06E-07	2.50E-05	ND	U	0.5	ND	ND
2,3,7,8-TCDD	1.57E-07	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	1.34E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	2.78E-04	--	0.0001	2.78E-08	2.78E-08
OCDF	0.00E+00	3.91E-06	ND	UJ (*III)	0.0001	ND	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>3.80E-07</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>2.78E-08</b>

Dioxin TCDD TEQ compliance limit established for this outfall?

Yes

**TCDD TEQ PERMIT LIMIT = 2.80E-08**

See attached notes for abbreviations, definitions, and other explanations for the data presented in this table.

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			RESULT	VALIDATION QUALIFIER
pH (Field)	pH Units	6.5-8.5/-	7.7	*
Temperature	F	-/-	58.0	*
Total Cyanide	ug/L	-/-	ANR	ANR
Hardness	mg/L	-/-	670	--
Volume Discharged	MGD	-/-	ANR	ANR
<b>METALS</b>				
Antimony	ug/L	-/-	ANR	ANR
Arsenic	ug/L	-/-	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR
Cadmium	ug/L	-/-	ANR	ANR
Calcium	mg/L	-/-	180	--
Chromium	ug/L	-/-	ANR	ANR
Copper	ug/L	-/-	ANR	ANR
Lead	ug/L	-/-	ANR	ANR
Magnesium	mg/L	-/-	52	--
Mercury	mg/L	-/-	ANR	ANR
Nickel	ug/L	-/-	ANR	ANR
Selenium	ug/L	-/-	ANR	ANR
Silver	ug/L	-/-	ANR	ANR
Thallium	ug/L	-/-	ANR	ANR
Zinc	ug/L	-/-	ANR	ANR
<b>ORGANICS</b>				
Benzene	ug/L	-/-	ANR	ANR
Carbon Tetrachloride	ug/L	-/-	ANR	ANR
Chloroform	ug/L	-/-	ANR	ANR
1,1-Dichloroethane	ug/L	-/-	ANR	ANR
1,2-Dichloroethane	ug/L	-/-	ANR	ANR
1,1-Dichloroethene	ug/L	-/-	ANR	ANR
Ethylbenzene	ug/L	-/-	ANR	ANR
Tetrachloroethene	ug/L	-/-	ANR	ANR
Toluene	ug/L	-/-	ANR	ANR
1,1,1-Trichloroethane	ug/L	-/-	ANR	ANR
1,1,2-Trichloroethane	ug/L	-/-	ANR	ANR
Trichloroethene	ug/L	-/-	ANR	ANR
Vinyl chloride	ug/L	-/-	ANR	ANR
<b>ADDITIONAL ANALYTES</b>				
Diazinon	ug/L	0.16/-	ND < 1.2	U
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR

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1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR
2,4,6-Trichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR
2,4-Dinitrotoluene	ug/L	-/-	ANR	ANR
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR
4,4'-DDD	ug/L	0.0014/-	ND < 0.0019	*
4,4'-DDE	ug/L	0.001/-	ND < 0.0028	*
4,4'-DDT	ug/L	0.001/-	ND < 0.0038	*
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR
alpha-BHC	ug/L	-/-	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR
Aroclor-1016	ug/L	0.0003/-	ND < 0.42	*
Aroclor-1221	ug/L	0.0003/-	ND < 0.24	*
Aroclor-1232	ug/L	0.0003/-	ND < 0.24	*
Aroclor-1242	ug/L	0.0003/-	ND < 0.24	*
Aroclor-1248	ug/L	0.0003/-	ND < 0.24	*
Aroclor-1254	ug/L	0.0003/-	ND < 0.24	*
Aroclor-1260	ug/L	0.0003/-	ND < 0.28	*
Benzidine	ug/L	-/-	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR

See attached notes for abbreviations, definitions and other explanations for the data presented.

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Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR
Chlordane	ug/L	0.001/-	ND < 0.038	*
Chlorobenzene	ug/L	-/-	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR
Chlorpyrifos	ug/L	0.02/-	ND < 0.52	U
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR
Dieldrin	ug/L	0.0002/-	ND < 0.0019	*
Diethylphthalate	ug/L	-/-	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR

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Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR
Pentachlorophenol	ug/L	-/-	ANR	ANR
Phenanthrene	ug/L	-/-	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR
Toxaphene	ug/L	0.0003/-	ND < 0.094	*
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR