

SECTION 9

OUTFALL 018 (R-2 SPILLWAY)  
ANNUAL 2010 REPORTING SUMMARY

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**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/18/2010-1/19/2010			2/6/2010-2/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.50	*	Grab	ND < 0.50	U
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	2.1	*	Grab	0.57	J (DNQ)
Chloride	mg/L	150/-	Comp	16	*	Grab	7.7	--
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	1100	--	Grab	350	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	0.066	J* (DNQ)	Grab	0.12	--
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	Grab	ND < 0.15	U (B)
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	Comp	ND < 0.15	*	Grab	0.22	J (DNQ)
Nitrate as Nitrogen (N)	mg/L	8.0/-	Comp	0.11	*	Grab	0.22	--
Nitrite-N	mg/L	1.0/-	Comp	ND < 0.090	*	Grab	ND < 0.090	U
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*	Grab	ND < 1.3	U
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	*	Grab	ND < 0.90	U
pH (Field)	pH units	6.5-8.5/-	Grab	7.7	*	Grab	7.6	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	*	Grab	ND < 0.10	U
Sulfate	mg/L	300/-	Comp	200	*	Grab	110	--
Temperature	deg. F	86/-	Grab	54	*	Grab	54	*
Total Cyanide	ug/L	8.5/-	Grab	ND < 2.2	*	Grab	ND < 2.2	U
Total Dissolved Solids	mg/L	950/-	Comp	440	*	Grab	200	--
Hardness	mg/L	-/-	ANR	ANR	ANR	Grab	89	--
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	82	--
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR	Grab	5.0	J (R)
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR	Grab	0.02	*
Total Suspended Solids	mg/L	45/-	Comp	12	*	Grab	ND < 1.0	U
Turbidity	NTU	-/-	Comp	47	--	Grab	0.10	J (DNQ)
Volume Discharged	MGD	160/-	Meas	1.44589	*	Meas	0.47664	*
<b>METALS</b>								
Antimony	ug/L	6.0/-	ANR	ANR	ANR	Grab	ND < 2.0	UJ (B)
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	0.41	J (DNQ)
Arsenic	ug/L	10/-	ANR	ANR	ANR	Grab	ND < 7.0	U
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 7.0	U
Barium	mg/L	1.0/-	ANR	ANR	ANR	Grab	0.025	--
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	0.024	--
Beryllium	ug/L	4.0/-	ANR	ANR	ANR	Grab	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.90	U
Boron	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.086	U (B)
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.11	U (B)
Cadmium	ug/L	3.1/-	Comp	ND < 0.10	U	Grab	ND < 1.0	UJ (R, B)
Cadmium, dissolved	ug/L	-/-	Comp	0.19	J (DNQ)	Grab	ND < 0.10	U
Calcium	mg/L	-/-	ANR	ANR	ANR	Grab	27	--
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	25	--
Chromium	ug/L	16.3/-	ANR	ANR	ANR	Grab	ND < 2.0	U
Chromium VI	ug/L	16.3/-	ANR	ANR	ANR	Grab	ND < 0.25	U
Cobalt	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.0	U
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.0	U
Copper	ug/L	14.0/-	Comp	4.0	J (*III)	Grab	0.79	J (*III, DNQ)
Copper, dissolved	ug/L	-/-	Comp	2.1	J (*III)	Grab	ND < 0.50	UJ (*III)
Iron	mg/L	0.3/-	Comp	1.6	--	Grab	ND < 0.015	U
Iron, dissolved	mg/L	-/-	Comp	0.026	J (DNQ)	Grab	ND < 0.015	U
Lead	ug/L	5.2/-	Comp	1.5	--	Grab	ND < 0.20	U
Lead, dissolved	ug/L	-/-	Comp	0.23	J (DNQ)	Grab	ND < 0.20	U
Magnesium	mg/L	-/-	ANR	ANR	ANR	Grab	5.5	--
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	Grab	5.0	--
Manganese	ug/L	50/-	Comp	140	--	Grab	210	--
Manganese, dissolved	ug/L	-/-	Comp	53	--	Grab	190	--
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U	Grab	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR	Grab	ND < 2.0	UJ (R)
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.0	UJ (R)
Selenium	ug/L	8.2/-	Comp	ND < 0.50	U	Grab	ND < 0.50	U
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	U	Grab	ND < 0.50	U

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			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Silver	ug/L	4.1/-	ANR	ANR	ANR	Grab	ND < 1.0	UJ (R, B)
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.10	U
Thallium	ug/L	2.0/-	ANR	ANR	ANR	Grab	ND < 0.20	U
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.20	U
Vanadium	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 3.0	U
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 3.0	U
Zinc	ug/L	119/-	Comp	15	J (DNQ)	Grab	12	J (DNQ)
Zinc, dissolved	ug/L	-/-	Comp	ND < 5.0	U	Grab	13	J (DNQ)
<b>ORGANICS</b>								
Benzene	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	U
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	U
Chloroform	ug/L	-/-	Grab	ND < 0.33	*	Grab	ND < 0.33	U
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	U
1,2-Dichloroethane	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	U
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*	Grab	ND < 0.42	U
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.0	U
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	*	Grab	ND < 0.25	U
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	*	Grab	ND < 0.32	U
Toluene	ug/L	-/-	Grab	ND < 0.36	*	Grab	ND < 0.36	U
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	*	Grab	ND < 0.90	U
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*	Grab	ND < 0.30	U
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*	Grab	ND < 0.30	U
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	*	Grab	ND < 0.26	U
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	*	Grab	ND < 0.34	U
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	Grab	ND < 0.50	*	Grab	ND < 0.50	U
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	U
<b>TPH</b>								
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.047	U
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR	Grab	ND < 0.025	UJ (C)
<b>ADDITIONAL ANALYTES</b>								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	Grab	ND < 1.1	*	Grab	ND < 1.1	U
2,4,5-Trichlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	U
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	U
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.35	U
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.35	U
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.37	U
2,4,6-Trichlorophenol	ug/L	13.0/-	Comp	ND < 0.095	*	Grab	ND < 0.094	U
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	U
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.85	UJ (C)
2,4-Dinitrotoluene	ug/L	18.3/-	Comp	ND < 0.19	*	Grab	ND < 0.19	U
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.8	UJ (C)
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	R (R)
2-Methylnaphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
2-Methylphenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 4.7	UJ (*III)
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	U
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0028	U
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0038	U
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U

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4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
4-Chloroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	UJ (*III)
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.4	U
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Acrolein	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 4.0	R (R)
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.2	U
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	Grab	100	--
Aldrin	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0014	U
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	*	Grab	ND < 0.0024	U
Aniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	UJ (*III)
Anthracene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	U
Benzidine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 4.7	UJ (*III)
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Benzoic acid	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 2.8	UJ (C)
Benzyl alcohol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
beta-BHC	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0038	U
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.6	*	Grab	ND < 1.6	U
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	U
Bromoform	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Bromomethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.42	U
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.66	U
Chlordane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.038	U
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.36	U
Chloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Chloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Chronic Toxicity	TUC	1.0/-	Comp	1.0	*	Grab	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	U
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.22	U
Cyclohexane	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	U
delta-BHC	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0033	U
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Dibenzofuran	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Dieldrin	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	U
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	U
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0028	U
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0028	U
Endrin	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	UJ (C)
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0019	U

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Endrin ketone	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0028	U
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Fluorene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Heptachlor	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0028	UJ (C)
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0024	U
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	UJ (*III)
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
Hydrazine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.452	U
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 1.42	U
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Isophorone	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0028	U
Methoxychlor	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.0033	U
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.95	U
m-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	UJ (*III)
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.857	U
Naphthalene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
n-Nitrosodimethylamine	ug/L	16.3/-	Comp	ND < 0.095	*	Grab	ND < 0.094	U
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	UJ (C)
o-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
p-Cresol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.19	U
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.095	*	Grab	ND < 0.094	UJ (C)
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Phenol	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.28	U
p-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.47	UJ (*III)
Pyrene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.094	U
Toxaphene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.24	UJ (C)
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.30	U
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.32	U

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SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	3/2/2010-3/3/2010			3/6/2010-3/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.50	*	Comp	ND < 0.50	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	1.0	J* (DNQ)	Comp	0.50	Ja* (DNQ)
Chloride	mg/L	150/-	Comp	20	*	Comp	15	*
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	490	--	Grab	490	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	ND < 0.050	*	Comp	0.074	Ja* (DNQ)
Fluoride	mg/L	1.6/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	Comp	ND < 0.15	*	Comp	ND < 0.15	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	Comp	ND < 0.060	*	Comp	ND < 0.060	*
Nitrite-N	mg/L	1.0/-	Comp	ND < 0.090	*	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	*	Comp	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	Grab	7.5	*	Grab	7.5	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	*	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	150	B-1*	Comp	160	*
Temperature	deg. F	86/-	Grab	58	*	Grab	55	*
Total Cyanide	ug/L	8.5/-	Grab	ND < 2.2	*	Grab	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	360	*	Comp	370	*
Hardness	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hardness, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Residual Chlorine (Field)	mg/L	0.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	Comp	8.0	J* (DNQ)	Comp	ND < 1.0	*
Turbidity	NTU	-/-	Comp	0.29	J (DNQ)	Comp	0.39	J (DNQ)
Volume Discharged	MGD	160/-	Meas	1.07494	*	Meas	0.321965	*
<b>METALS</b>								
Antimony	ug/L	6.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Antimony, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Boron, dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium	ug/L	3.1/-	Comp	ND < 0.10	*	Comp	ND < 0.10	*
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*	Comp	ND < 0.10	*
Calcium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Calcium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium	ug/L	16.3/-	ANR	ANR	ANR	ANR	ANR	ANR
Chromium VI	ug/L	16.3/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cobalt, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Copper	ug/L	14.0/-	Comp	1.7	J* (DNQ)	Comp	1.4	Ja* (DNQ)
Copper, dissolved	ug/L	-/-	Comp	1.4	J* (DNQ)	Comp	2.6	B*
Iron	mg/L	0.3/-	Comp	ND < 0.015	*	Comp	0.17	*
Iron, dissolved	mg/L	-/-	Comp	ND < 0.015	*	Comp	ND < 0.015	*
Lead	ug/L	5.2/-	Comp	ND < 0.20	*	Comp	0.23	Ja* (DNQ)
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*	Comp	ND < 0.20	*
Magnesium	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Magnesium, Dissolved	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Manganese	ug/L	50/-	Comp	8.8	J* (DNQ)	Comp	9.7	Ja* (DNQ)
Manganese, dissolved	ug/L	-/-	Comp	ND < 7.0	*	Comp	19	Ja* (DNQ)
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U	Comp	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR	ANR	ANR	ANR
Nickel, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Selenium	ug/L	8.2/-	Comp	ND < 0.50	*	Comp	0.54	Ja* (DNQ)
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*	Comp	ND < 0.50	*

OUTFALL 018 (R-2 Spillway)

ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	3/2/2010-3/3/2010			3/6/2010-3/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Silver	ug/L	4.1/-	ANR	ANR	ANR	ANR	ANR	ANR
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vanadium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Zinc	ug/L	119/-	Comp	ND < 5.0	*	Comp	ND < 5.0	*
Zinc, dissolved	ug/L	-/-	Comp	ND < 5.0	*	Comp	6.7	Ja* (DNQ)
<b>ORGANICS</b>								
Benzene	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	*
Chloroform	ug/L	-/-	Grab	ND < 0.33	*	Grab	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	*
1,2-Dichloroethane	ug/L	-/-	Grab	ND < 0.28	*	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*	Grab	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	*	Grab	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	*	Grab	ND < 0.32	*
Toluene	ug/L	-/-	Grab	ND < 0.36	*	Grab	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	*	Grab	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*	Grab	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*	Grab	ND < 0.30	*
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	*	Grab	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	*	Grab	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	*	Grab	ND < 0.40	*
<b>TPH</b>								
DRO (C13 - C28)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
GRO (C4 - C12)	mg/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>								
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4,5-Trichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13.0/-	Comp	ND < 0.097	*	Comp	ND < 0.095	*
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18.3/-	Comp	ND < 0.19	*	Comp	ND < 0.19	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylnaphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR



**OUTFALL 018 (R-2 Spillway)**

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SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	3/2/2010-3/3/2010			3/6/2010-3/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chloroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acenaphthylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	*	Comp	ND < 0.0024	*
Aniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzoic acid	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Benzyl alcohol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.6	*	Comp	ND < 1.6	*
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Chronic Toxicity	TUC	1.0/-	ANR	ANR	ANR	ANR	ANR	ANR
Chrysene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibenzofuran	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

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 SANTA SUSANA FIELD LABORATORY  
 NPDES PERMIT CA0001309

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	3/2/2010-3/3/2010			3/6/2010-3/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Endrin ketone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Unsymmetrical Dimethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methoxychlor	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
m-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodimethylamine	ug/L	16.3/-	Comp	ND < 0.097	*	Comp	ND < 0.095	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
o-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
p-Cresol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.097	*	Comp	ND < 0.095	*
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
p-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR	ANR	ANR	ANR

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**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**July 19, 2010 through December 31, 2010**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	Comp	ND < 0.50	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	30/-	Comp	1.8	J* (DNQ)
Chloride	mg/L	150/-	Comp	6.9	*
Dissolved Oxygen	mg	-/-	Grab	0.36	*
Specific Conductivity (Lab)	umhos/cm	-/-	Grab	150	--
Surfactants (MBAS)	mg/L	0.5/-	Comp	ND < 0.050	*
Fluoride	mg/L	1.6/-	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	8/-	Comp	1.0	*
Nitrate as Nitrogen (N)	mg/L	8/-	Comp	1.0	*
Nitrite-N	mg/L	1/-	Comp	ND < 0.090	*
Oil & Grease	mg/L	15/-	Grab	ND < 1.3	*
Perchlorate	ug/L	6.0/-	Comp	ND < 0.90	*
pH (Field)	pH units	6.5-8.5/-	Grab	7.6	*
Total Settleable Solids	ml/L	0.3/-	Grab	ND < 0.10	*
Sulfate	mg/L	300/-	Comp	38	*
Temperature	deg. F	86/-	Grab	53	*
Total Cyanide	ug/L	8.5/-	Comp	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	Comp	110	*
Total Organic Carbon	mg/L	-/-	ANR	ANR	ANR
Total Residual Chlorine	mg/L	0.1/-	ANR	ANR	ANR
Total Suspended Solids	mg/L	45/-	Comp	22	*
Turbidity	NTU	-/-	Comp	47	--
Volume Discharged	MGD	160/-	NA	1.17444	*
<b>METALS</b>					
Antimony	ug/L	6.0/-	ANR	ANR	ANR
Arsenic	ug/L	10/-	ANR	ANR	ANR
Barium	mg/L	1.0/-	ANR	ANR	ANR
Beryllium	ug/L	4.0/-	ANR	ANR	ANR
Boron	mg/L	-/-	ANR	ANR	ANR
Cadmium	ug/L	3.1/-	Comp	0.12	J* (DNQ)
Cadmium, dissolved	ug/L	-/-	Comp	ND < 0.10	*
Chromium	ug/L	16/-	ANR	ANR	ANR
Chromium VI	ug/L	16/-	ANR	ANR	ANR
Cobalt	ug/L	-/-	ANR	ANR	ANR
Copper	ug/L	14/-	Comp	4.10	*
Copper, dissolved	ug/L	-/-	Comp	2.12	*
Iron	mg/L	0.3/-	Comp	2.3	--
Iron, dissolved	mg/L	-/-	Comp	0.016	J (DNQ)
Lead	ug/L	5.2/-	Comp	1.8	*
Lead, dissolved	ug/L	-/-	Comp	ND < 0.20	*
Manganese	ug/L	50/-	Comp	45	*

## OUTFALL 018 (R-2 Spillway)

### ANNUAL 2010 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

July 19, 2010 through December 31, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Manganese, dissolved	ug/L	-/-	Comp	8.8	*
Mercury	ug/L	0.10/-	Comp	ND < 0.10	U
Mercury, dissolved	ug/L	-/-	Comp	ND < 0.10	U
Nickel	ug/L	96/-	ANR	ANR	ANR
Selenium	ug/L	8.2/-	Comp	ND < 0.50	*
Selenium, dissolved	ug/L	-/-	Comp	ND < 0.50	*
Silver	ug/L	4.1/-	ANR	ANR	ANR
Thallium	ug/L	2.0/-	ANR	ANR	ANR
Vanadium	ug/L	-/-	ANR	ANR	ANR
Zinc	ug/L	119/-	Comp	19.3	J (DNQ)
Zinc, Dissolved	ug/L	-/-	Comp	8.05	J (DNQ)
<b>ORGANICS</b>					
Benzene	ug/L	-/-	Grab	ND < 0.28	*
Carbon Tetrachloride	ug/L	-/-	Grab	ND < 0.28	*
Chloroform	ug/L	-/-	Grab	ND < 0.33	*
1,1-Dichloroethane	ug/L	-/-	Grab	ND < 0.40	*
1,2-Dichloroethane	ug/L	0.5/-	Grab	ND < 0.28	*
1,1-Dichloroethene	ug/L	6.0/-	Grab	ND < 0.42	*
1,4-Dioxane	ug/L	-/-	ANR	ANR	ANR
Ethylbenzene	ug/L	-/-	Grab	ND < 0.25	*
Tetrachloroethene	ug/L	-/-	Grab	ND < 0.32	*
Toluene	ug/L	-/-	Grab	ND < 0.36	*
Xylenes (Total)	ug/L	-/-	Grab	ND < 0.90	*
1,1,1-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*
1,1,2-Trichloroethane	ug/L	-/-	Grab	ND < 0.30	*
Trichloroethene	ug/L	5.0/-	Grab	ND < 0.26	*
Trichlorofluoromethane	ug/L	-/-	Grab	ND < 0.34	*
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	Grab	ND < 0.50	*
Vinyl Chloride	ug/L	-/-	Grab	ND < 0.40	*
<b>TPH</b>					
EFH (C13 - C22)	ug/L	-/-	ANR	ANR	ANR
GRO (C4 - C12)	ug/L	-/-	ANR	ANR	ANR
<b>ADDITIONAL ANALYTES</b>					
1,2-Dichloro-1,1,2-trifluoroethane	ug/L	-/-	ANR	ANR	ANR
1,1,2,2-Tetrachloroethane	ug/L	-/-	ANR	ANR	ANR
1,2,4-Trichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,2-Dichloropropane	ug/L	-/-	ANR	ANR	ANR
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ANR	ANR	ANR
1,3-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
1,4-Dichlorobenzene	ug/L	-/-	ANR	ANR	ANR
2,4,6-Trichlorophenol	ug/L	13/-	Comp	ND < 0.094	*

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**July 19, 2010 through December 31, 2010**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
2,4-Dichlorophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dimethylphenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2,4-Dinitrotoluene	ug/L	18/-	Comp	ND < 0.19	*
2,6-Dinitrotoluene	ug/L	-/-	ANR	ANR	ANR
2-Chloroethylvinylether	ug/L	-/-	ANR	ANR	ANR
2-Chloronaphthalene	ug/L	-/-	ANR	ANR	ANR
2-Chlorophenol	ug/L	-/-	ANR	ANR	ANR
2-Methyl-4,6-dinitrophenol	ug/L	-/-	ANR	ANR	ANR
2-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
3,3'-Dichlorobenzidine	ug/L	-/-	ANR	ANR	ANR
4,4'-DDD	ug/L	-/-	ANR	ANR	ANR
4,4'-DDE	ug/L	-/-	ANR	ANR	ANR
4,4'-DDT	ug/L	-/-	ANR	ANR	ANR
4-Bromophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Chloro-3-methylphenol	ug/L	-/-	ANR	ANR	ANR
4-Chlorophenylphenylether	ug/L	-/-	ANR	ANR	ANR
4-Nitrophenol	ug/L	-/-	ANR	ANR	ANR
Acenaphthene	ug/L	-/-	ANR	ANR	ANR
Acrolein	ug/L	-/-	ANR	ANR	ANR
Acrylonitrile	ug/L	-/-	ANR	ANR	ANR
Acute Toxicity	% SURVIVAL	70-100/-	ANR	ANR	ANR
Aldrin	ug/L	-/-	ANR	ANR	ANR
alpha-BHC	ug/L	0.03/-	Comp	ND < 0.0024	*
Anthracene	ug/L	-/-	ANR	ANR	ANR
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR
Benzidine	ug/L	-/-	ANR	ANR	ANR
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR
Benzo(g,h,l)perylene	ug/L	-/-	ANR	ANR	ANR
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR
beta-BHC	ug/L	-/-	ANR	ANR	ANR
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR
bis (2-ethylhexyl) Phthalate	ug/L	4.0/-	Comp	ND < 1.6	*
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR

## OUTFALL 018 (R-2 Spillway)

### ANNUAL 2010 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

July 19, 2010 through December 31, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR
Bromodichloromethane	ug/L	-/-	ANR	ANR	ANR
Bromoform	ug/L	-/-	ANR	ANR	ANR
Bromomethane	ug/L	-/-	ANR	ANR	ANR
Butylbenzylphthalate	ug/L	-/-	ANR	ANR	ANR
Chlordane	ug/L	-/-	ANR	ANR	ANR
Chlorobenzene	ug/L	-/-	ANR	ANR	ANR
Chloroethane	ug/L	-/-	ANR	ANR	ANR
Chloromethane	ug/L	-/-	ANR	ANR	ANR
Chronic Toxicity	TUC	1/-	Comp	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR
cis-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
cis-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR
Cyclohexane	ug/L	-/-	ANR	ANR	ANR
delta-BHC	ug/L	-/-	ANR	ANR	ANR
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR
Dieldrin	ug/L	-/-	ANR	ANR	ANR
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR
Endosulfan I	ug/L	-/-	ANR	ANR	ANR
Endosulfan II	ug/L	-/-	ANR	ANR	ANR
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR
Endrin	ug/L	-/-	ANR	ANR	ANR
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR
Fluoranthene	ug/L	-/-	ANR	ANR	ANR
Fluorene	ug/L	-/-	ANR	ANR	ANR
Heptachlor	ug/L	-/-	ANR	ANR	ANR
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR
Isophorone	ug/L	-/-	ANR	ANR	ANR
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR
Naphthalene	ug/L	-/-	ANR	ANR	ANR
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**July 19, 2010 through December 31, 2010**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
n-Nitrosodimethylamine	ug/L	16/-	Comp	ND < 0.094	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR
Pentachlorophenol	ug/L	16.5/-	Comp	ND < 0.094	*
Phenanthrene	ug/L	-/-	ANR	ANR	ANR
Phenol	ug/L	-/-	ANR	ANR	ANR
Pyrene	ug/L	-/-	ANR	ANR	ANR
Toxaphene	ug/L	-/-	ANR	ANR	ANR
trans-1,2-Dichloroethene	ug/L	-/-	ANR	ANR	ANR
trans-1,3-Dichloropropene	ug/L	-/-	ANR	ANR	ANR

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type: Composite**

**Sample Date: January 18-19, 2010**

<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/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	6.20E-06	4.70E-05	8.00E-05	--	0.01	<b>8.00E-07</b>
1,2,3,4,6,7,8-HpCDF	3.40E-06	4.70E-05	ND	U (B)	0.01	<b>ND</b>
1,2,3,4,7,8,9-HpCDF	5.40E-06	4.70E-05	ND	U	0.01	<b>ND</b>
1,2,3,4,7,8-HxCDD	3.90E-06	4.70E-05	ND	U	0.1	<b>ND</b>
1,2,3,4,7,8-HxCDF	3.20E-06	4.70E-05	ND	U	0.1	<b>ND</b>
1,2,3,6,7,8-HxCDD	3.30E-06	3.10E-06	ND	U (B)	0.1	<b>ND</b>
1,2,3,6,7,8-HxCDF	2.70E-06	4.70E-05	ND	U	0.1	<b>ND</b>
1,2,3,7,8,9-HxCDD	2.80E-06	4.70E-05	ND	U	0.1	<b>ND</b>
1,2,3,7,8,9-HxCDF	3.00E-06	4.70E-05	ND	U	0.1	<b>ND</b>
1,2,3,7,8-PeCDD	7.50E-06	4.70E-05	ND	U	1	<b>ND</b>
1,2,3,7,8-PeCDF	4.00E-06	4.70E-05	ND	U	0.05	<b>ND</b>
2,3,4,6,7,8-HxCDF	2.50E-06	4.70E-05	ND	U	0.1	<b>ND</b>
2,3,4,7,8-PeCDF	4.50E-06	4.70E-05	ND	U	0.5	<b>ND</b>
2,3,7,8-TCDD	2.70E-06	9.40E-06	ND	U	1	<b>ND</b>
2,3,7,8-TCDF	2.20E-06	9.40E-06	ND	U	0.1	<b>ND</b>
OCDD	1.60E-05	9.40E-05	9.60E-04	--	0.0001	<b>9.60E-08</b>
OCDF	6.20E-06	9.40E-05	ND	U (B)	0.0001	<b>ND</b>

<b>TCDD TEQ w/out DNQ Values</b>	<b>8.96E-07</b>
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**TCDD TEQ PERMIT LIMIT = 2.80E-08**

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



**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type: Grab**

**Sample Date: February 6-7, 2010**

<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/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	9.90E-07	4.70E-05	ND	U (B)	0.01	ND
1,2,3,4,6,7,8-HpCDF	7.60E-07	1.80E-06	ND	U (B)	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.30E-06	4.70E-05	ND	U	0.01	ND
1,2,3,4,7,8-HxCDD	2.80E-07	8.00E-07	ND	U (B)	0.1	ND
1,2,3,4,7,8-HxCDF	4.20E-07	1.00E-06	ND	U (B)	0.1	ND
1,2,3,6,7,8-HxCDD	2.30E-07	1.20E-06	ND	U (B)	0.1	ND
1,2,3,6,7,8-HxCDF	3.90E-07	4.70E-05	ND	U (B)	0.1	ND
1,2,3,7,8,9-HxCDD	2.30E-07	7.10E-07	ND	U (B)	0.1	ND
1,2,3,7,8,9-HxCDF	5.00E-07	6.80E-07	ND	U (B)	0.1	ND
1,2,3,7,8-PeCDD	4.00E-07	4.70E-05	ND	U	1	ND
1,2,3,7,8-PeCDF	5.00E-08	1.00E-06	ND	U (B)	0.05	ND
2,3,4,6,7,8-HxCDF	4.10E-07	7.80E-07	ND	U (B)	0.1	ND
2,3,4,7,8-PeCDF	6.00E-08	4.70E-05	ND	U (B)	0.5	ND
2,3,7,8-TCDD	3.00E-08	9.40E-06	ND	U	1	ND
2,3,7,8-TCDF	2.00E-08	9.40E-06	ND	U	0.1	ND
OCDD	9.30E-07	1.30E-05	ND	U (B)	0.0001	ND
OCDF	8.70E-07	9.40E-05	ND	U (B)	0.0001	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ PERMIT LIMIT = 2.80E-08**

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

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type: Composite**

**Sample Date: March 2-3, 2010**

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	3.20E-07	5.00E-05	ND	U (B)	0.01	ND
1,2,3,4,6,7,8-HpCDF	6.00E-07	5.00E-05	ND	UJ (*III)	0.01	ND
1,2,3,4,7,8,9-HpCDF	8.00E-07	5.00E-05	ND	U	0.01	ND
1,2,3,4,7,8-HxCDD	2.00E-08	5.00E-05	ND	U	0.1	ND
1,2,3,4,7,8-HxCDF	1.40E-07	5.00E-05	ND	U (B)	0.1	ND
1,2,3,6,7,8-HxCDD	2.00E-08	5.00E-05	ND	U	0.1	ND
1,2,3,6,7,8-HxCDF	1.30E-07	1.80E-07	ND	U (B)	0.1	ND
1,2,3,7,8,9-HxCDD	2.00E-08	5.00E-05	ND	U	0.1	ND
1,2,3,7,8,9-HxCDF	1.60E-07	5.00E-05	ND	U (B)	0.1	ND
1,2,3,7,8-PeCDD	2.60E-07	5.00E-05	ND	U	1	ND
1,2,3,7,8-PeCDF	1.00E-08	5.00E-05	ND	U	0.05	ND
2,3,4,6,7,8-HxCDF	1.20E-07	2.00E-07	ND	U (B)	0.1	ND
2,3,4,7,8-PeCDF	2.00E-08	5.00E-05	ND	U	0.5	ND
2,3,7,8-TCDD	1.00E-08	1.00E-05	ND	U	1	ND
2,3,7,8-TCDF	2.00E-08	1.00E-05	ND	U	0.1	ND
OCDD	1.80E-07	1.00E-04	ND	U (B)	0.0001	ND
OCDF	2.50E-07	1.00E-04	ND	U (B)	0.0001	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ PERMIT LIMIT = 2.80E-08**

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

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type: Composite**

**Sample Date: March 6-7, 2010**

<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/out DNQ Values) (ug/L)</b>
1,2,3,4,6,7,8-HpCDD	1.40E-06	2.00E-06	ND	U (B)	0.01	ND
1,2,3,4,6,7,8-HpCDF	9.40E-07	6.40E-07	ND	U (B)	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.50E-06	5.00E-05	ND	U	0.01	ND
1,2,3,4,7,8-HxCDD	1.10E-06	5.00E-05	ND	U	0.1	ND
1,2,3,4,7,8-HxCDF	1.30E-07	6.60E-07	ND	U (B)	0.1	ND
1,2,3,6,7,8-HxCDD	1.00E-06	5.00E-05	ND	U	0.1	ND
1,2,3,6,7,8-HxCDF	1.30E-07	5.00E-05	ND	U	0.1	ND
1,2,3,7,8,9-HxCDD	8.80E-07	5.00E-05	ND	U	0.1	ND
1,2,3,7,8,9-HxCDF	1.60E-07	5.00E-05	ND	U	0.1	ND
1,2,3,7,8-PeCDD	8.30E-07	5.00E-05	ND	U	1	ND
1,2,3,7,8-PeCDF	5.60E-07	5.00E-05	ND	U	0.05	ND
2,3,4,6,7,8-HxCDF	1.10E-07	5.00E-05	ND	U	0.1	ND
2,3,4,7,8-PeCDF	5.80E-07	5.00E-05	ND	U	0.5	ND
2,3,7,8-TCDD	6.00E-07	1.00E-05	ND	U	1	ND
2,3,7,8-TCDF	4.20E-07	1.00E-05	ND	U	0.1	ND
OCDD	2.10E-06	1.00E-04	ND	U (B)	0.0001	ND
OCDF	1.60E-06	1.00E-04	ND	U	0.0001	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>ND</b>
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**TCDD TEQ PERMIT LIMIT = 2.80E-08**

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

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**Sample Type: Composite**

**Sample Date December 20-21, 2010**

ANALYTE	LAB LOD (ug/L)	LAB RL (ug/L)	LAB RESULT (ug/L)	VALIDATION QUALIFIER	1998 WHO TEF	BEF Great Lakes Water Quality Initiative	TCDD Equivalent (w/out DNQ Values) (ug/L)
1,2,3,4,6,7,8-HpCDD	5.60E-07	5.00E-05	ND	U (B)	0.01	0.05	ND
1,2,3,4,6,7,8-HpCDF	5.00E-07	5.00E-05	ND	U (B)	0.01	0.01	ND
1,2,3,4,7,8,9-HpCDF	6.30E-07	5.00E-05	ND	U (B)	0.01	0.4	ND
1,2,3,4,7,8-HxCDD	1.20E-07	5.00E-05	ND	UJ (*III)	0.1	0.3	ND
1,2,3,4,7,8-HxCDF	6.80E-07	5.00E-05	ND	U	0.1	0.08	ND
1,2,3,6,7,8-HxCDD	1.00E-07	5.00E-05	2.60E-06	J (DNQ)	0.1	0.1	ND
1,2,3,6,7,8-HxCDF	3.60E-07	5.00E-05	ND	U	0.1	0.2	ND
1,2,3,7,8,9-HxCDD	1.00E-07	5.00E-05	ND	UJ (*III)	0.1	0.1	ND
1,2,3,7,8,9-HxCDF	1.20E-07	5.00E-05	ND	U	0.1	0.6	ND
1,2,3,7,8-PeCDD	7.20E-07	5.00E-05	ND	U	1	0.9	ND
1,2,3,7,8-PeCDF	2.20E-07	5.00E-05	ND	U	0.05	0.2	ND
2,3,4,6,7,8-HxCDF	6.00E-07	5.00E-05	ND	U	0.1	0.7	ND
2,3,4,7,8-PeCDF	3.50E-07	5.00E-05	ND	U	0.5	1.6	ND
2,3,7,8-TCDD	4.40E-07	1.00E-05	ND	U	1	1	ND
2,3,7,8-TCDF	2.60E-07	1.00E-05	ND	U	0.1	0.8	ND
OCDD	1.10E-06	1.00E-04	5.20E-04	--	0.0001	0.01	5.20E-10
OCDF	5.80E-07	1.00E-04	ND	U (B)	0.0001	0.02	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>5.20E-10</b>
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**TCDD TEQ PERMIT LIMIT = 2.80E-08**

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

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	SAMPLE TYPE	UNITS	Permit Limit Daily Max/Monthly Avg	1/19/2010			2/7/2010		
				RESULT	VALIDATION QUALIFIER	MDA	RESULT	VALIDATION QUALIFIER	MDA
<b>RADIOACTIVITY</b>	Composite								
Gross Alpha	Composite	pCi/L	15/-	2.2 ± 1.3	J (H, C, DNQ)	1.7	-0.22 ± 0.59	UJ (C)	1.3
Gross Beta	Composite	pCi/L	50/-	6.8 ± 1.4	J (H)	1.7	1.52 ± 0.94	J (DNQ)	1.4
Strontium-90	Composite	pCi/L	8.0/-	0.06 ± 0.29	U	0.5	0.004 ± 0.26	U	0.45
Total Combined Radium-226 & Radium 228	Composite	pCi/L	5.0/-	0.26 ± 0.424	--	0.84	0.009 ± 0.18	R	0.47
Tritium	Composite	pCi/L	20000/-	118 ± 96	U	140	30 ± 53	U	91
Uranium, Total	Composite	pCi/L	20/-	0.289 ± 0.047	J (H, DNQ)	0.21	0.125 ± 0.015	R (H)	0.21
Potassium-40	Composite	pCi/L	----	-90 ± 540	U	240	-60 ± 340	U	200
Cesium 137	Composite	pCi/L	200/-	0.2 ± 6.7	U	12	1.3 ± 6.9	U	12

Sample on 2/7/10 was a grab sample

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	SAMPLE TYPE	UNITS	Permit Limit Daily Max/Monthly Avg	3/3/2010			3/7/2010		
				RESULT	VALIDATION QUALIFIER	MDA	RESULT	VALIDATION QUALIFIER	MDA
<b>RADIOACTIVITY</b>	Composite								
Gross Alpha	Composite	pCi/L	15/-	2.6 ± 1.9	UJ (H, C)	2.7	0.6 ± 1.2	UJ (C)	2
Gross Beta	Composite	pCi/L	50/-	3.6 ± 1.0	J (H, DNQ)	1.2	4.5 ± 1.5	--	2.1
Strontium-90	Composite	pCi/L	8.0/-	-0.06 ± 0.21	U	0.38	0.61 ± 0.34	J (DNQ)	0.51
Total Combined Radium-226 & Radium 228	Composite	pCi/L	5.0/-	0.125 ± 0.382	U	0.701	0.428 ± 0.383	U	0.676
Tritium	Composite	pCi/L	20000/-	85 ± 86	U	130	-17 ± 74	U	150
Uranium, Total	Composite	pCi/L	20/-	ND < 0.693 ± 0.061	UJ (H, B)	0.21	ND < 1.39 ± 0.082	U (B)	0.43
Potassium-40	Composite	pCi/L	----	-80 ± 3300	U	200	-90 ± 3600	U	200
Cesium 137	Composite	pCi/L	200/-	ND < 22 ± 12	U	22	3.8 ± 7.8	U	14

Sample on 2/7/10 was a grab sample

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**July 19, 2010 through December 31, 2010**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/21/2010 (Comp)		
			RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>					
Gross Alpha	pCi/L	15/-	0.948 ± 0.36	0.399	J (DNQ,C)
Gross Beta	pCi/L	50/-	4.3 ± 0.65	0.868	--
Strontium-90	pCi/L	8.0/-	0.018 ± 0.28	0.637	U
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.44 ± 0.49	1.31	U
Tritium	pCi/L	20000/-	144 ± 200	340	U
Uranium, Total	pCi/L	20/-	0.237± 0.028	0.017	J (DNQ)
Potassium-40	pCi/L	-/-	ND < 24	24	U
Cesium 137	pCi/L	200/-	ND < 1.8	1.8	U

**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	01/18/2010-01/19/2010			02/06/2010-02/07/2010		
			Sample Type	Result	Concentration Result Validation Qualifier	Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	1.019265		Meas	0.946545	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*	Grab	ND	U
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	17.85	*	Grab	4.50	J (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	136.01	*	Grab	60.79	--
Surfactants (MBAS)	LBS/DAY	667/-	Comp	0.56	J* (DNQ)	Grab	0.95	--
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR	Grab	ND	U (B)
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*	Grab	1.74	J (DNQ)
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	0.94	*	Grab	1.74	--
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*	Grab	ND	U
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*	Grab	ND	U
Perchlorate	LBS/DAY	8/-	Comp	ND	*	Grab	ND	U
Sulfate	LBS/DAY	400,320/-	Comp	1700.13	*	Grab	868.36	--
Total Cyanide	LBS/DAY	11.3/-	Grab	ND	*	Grab	ND	U
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	3740.29	*	Grab	1578.84	--
Total Suspended Solids	LBS/DAY	60,048/-	Comp	102.01	*	Grab	ND	U
Antimony	LBS/DAY	8.01/-	ANR	ANR	ANR	Grab	ND	UJ (B)
Arsenic	LBS/DAY	66.7/-	ANR	ANR	ANR	Grab	ND	U
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR	Grab	0.20	--
Beryllium	LBS/DAY	5.34/-	ANR	ANR	ANR	Grab	ND	U
Cadmium	LBS/DAY	4.14/-	Comp	ND	U	Grab	ND	UJ (R, B)
Chromium	LBS/DAY	21.8/-	ANR	ANR	ANR	Grab	ND	U
Copper	LBS/DAY	18.7/-	Comp	0.03	J (*III)	Grab	0.01	J (*III, DNQ)
Iron	LBS/DAY	400/-	Comp	13.60	--	Grab	ND	U
Lead	LBS/DAY	6.94/-	Comp	0.01	--	Grab	ND	U
Manganese	LBS/DAY	66.7/-	Comp	1.19	--	Grab	1.66	--
Mercury	LBS/DAY	0.13/-	Comp	ND	U	Grab	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR	Grab	ND	UJ (R)
Selenium	LBS/DAY	10.9/-	Comp	ND	U	Grab	ND	U
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR	Grab	ND	UJ (R, B)
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR	Grab	ND	U
Zinc	LBS/DAY	159/-	Comp	0.13	J (DNQ)	Grab	0.09	J (DNQ)
1,1-Dichloroethene	LBS/DAY	8/-	Grab	ND	*	Grab	ND	U
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*	Grab	ND	U
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*	Grab	ND	U
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*	Grab	ND	U
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*	Grab	ND	U
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*	Grab	ND	U
n-Nitrosodimethylamine	LBS/DAY	21.8/-	Comp	ND	*	Grab	ND	U
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*	Grab	ND	UJ (C)
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/-	Comp	7.62E-09	--	Grab	ND	--



**OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	03/02/2010-03/03/2010			03/06/2010-03/07/2010		
			Sample Type	Result	Concentration Result Validation Qualifier	Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	0.69772		Meas	0.71745	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	5.82	J* (DNQ)	Comp	2.99	Ja* (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	116.38	*	Comp	89.75	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*	Comp	0.44	Ja* (DNQ)
Fluoride	LBS/DAY	2,135/-	ANR	ANR	ANR	ANR	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*	Comp	ND	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	ND	*	Comp	ND	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*	Grab	ND	*
Perchlorate	LBS/DAY	8/-	Comp	ND	*	Comp	ND	*
Sulfate	LBS/DAY	400,320/-	Comp	872.85	B-1*	Comp	957.37	*
Total Cyanide	LBS/DAY	11.3/-	Grab	ND	*	Grab	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	2094.83	*	Comp	2213.91	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	46.55	J* (DNQ)	Comp	ND	*
Antimony	LBS/DAY	8.01/-	ANR	ANR	ANR	ANR	ANR	ANR
Arsenic	LBS/DAY	66.7/-	ANR	ANR	ANR	ANR	ANR	ANR
Barium	LBS/DAY	1,330/-	ANR	ANR	ANR	ANR	ANR	ANR
Beryllium	LBS/DAY	5.34/-	ANR	ANR	ANR	ANR	ANR	ANR
Cadmium	LBS/DAY	4.14/-	Comp	ND	*	Comp	ND	*
Chromium	LBS/DAY	21.8/-	ANR	ANR	ANR	ANR	ANR	ANR
Copper	LBS/DAY	18.7/-	Comp	0.01	J* (DNQ)	Comp	0.01	Ja* (DNQ)
Iron	LBS/DAY	400/-	Comp	ND	*	Comp	1.02	*
Lead	LBS/DAY	6.94/-	Comp	ND	*	Comp	0.0014	Ja* (DNQ)
Manganese	LBS/DAY	66.7/-	Comp	0.05	J* (DNQ)	Comp	0.06	Ja* (DNQ)
Mercury	LBS/DAY	0.13/-	Comp	ND	U	Comp	ND	U
Nickel	LBS/DAY	128/-	ANR	ANR	ANR	ANR	ANR	ANR
Selenium	LBS/DAY	10.9/-	Comp	ND	*	Comp	0.0032	Ja* (DNQ)
Silver	LBS/DAY	5.5/-	ANR	ANR	ANR	ANR	ANR	ANR
Thallium	LBS/DAY	2.7/-	ANR	ANR	ANR	ANR	ANR	ANR
Zinc	LBS/DAY	159/-	Comp	ND	*	Comp	ND	*
1,1-Dichloroethene	LBS/DAY	8/-	Grab	ND	*	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*	Comp	ND	*
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	21.8/-	Comp	ND	*	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/-	Comp	ND	--	Comp	ND	--

## OUTFALL 018 (R-2 Spillway)

### ANNUAL 2010 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

July 19, 2010 through December 31, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	1.17444	
Ammonia as Nitrogen (N)	LBS/DAY	13,500/-	Comp	ND	*
Biochemical Oxygen Demand (BOD 5 day)	LBS/DAY	40,032/-	Comp	17.63	Ja* (DNQ)
Chloride	LBS/DAY	200,160/-	Comp	67.58	*
Surfactants (MBAS)	LBS/DAY	667/-	Comp	ND	*
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	10,700/-	Comp	9.79	*
Nitrate as Nitrogen (N)	LBS/DAY	10,700/-	Comp	9.79	*
Nitrite-N	LBS/DAY	1,334/-	Comp	ND	*
Oil & Grease	LBS/DAY	20,016/-	Grab	ND	*
Perchlorate	LBS/DAY	8/-	Comp	ND	*
Sulfate	LBS/DAY	400,320/-	Comp	372.20	*
Total Cyanide	LBS/DAY	11.3/-	Comp	ND	*
Total Dissolved Solids	LBS/DAY	1,270,000/-	Comp	1077.43	*
Total Suspended Solids	LBS/DAY	60,048/-	Comp	215.49	*
Cadmium	LBS/DAY	4.14/-	Comp	0.0012	Ja* (DNQ)
Copper	LBS/DAY	18.7/-	Comp	0.04	*
Iron	LBS/DAY	400/-	Comp	22.53	--
Lead	LBS/DAY	6.94/-	Comp	0.02	*
Manganese	LBS/DAY	66.7/-	Comp	0.44	*
Mercury	LBS/DAY	0.13/-	Comp	ND	U
Selenium	LBS/DAY	10.9/-	Comp	ND	*
Zinc	LBS/DAY	159/-	Comp	0.19	J (DNQ)
1,2-Dichloroethane	LBS/DAY	0.67/-	Grab	ND	*
1,1-Dichloroethene	LBS/DAY	8/-	Grab	ND	*
Trichloroethene	LBS/DAY	6.7/-	Grab	ND	*
2,4,6-Trichlorophenol	LBS/DAY	17/-	Comp	ND	*

**OUTFALL 018 (R-2 Spillway)**

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THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
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**July 19, 2010 through December 31, 2010**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	12/20/2010-12/21/2010		
			Sample Type	Result	Concentration Result Validation Qualifier
Max Discharge for event	MGD	160	Meas	1.17444	
2,4-Dinitrotoluene	LBS/DAY	24/-	Comp	ND	*
alpha-BHC	LBS/DAY	0.04/-	Comp	ND	*
bis (2-ethylhexyl) Phthalate	LBS/DAY	5.3/-	Comp	ND	*
n-Nitrosodimethylamine	LBS/DAY	21.8/-	Comp	ND	*
Pentachlorophenol	LBS/DAY	22/-	Comp	ND	*
TCDD TEQ_NoDNQ	LBS/DAY	3.7E-08/-	Comp	5.09E-12	--

**BMP EFFECTIVENESS  
OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
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**January 1, 2010 through July 18, 2010**

<b>SAMPLE NAME</b>	<b>SAMPLE DATE</b>	<b>ANALYTE</b>	<b>UNITS</b>	<b>RESULT</b>
018 EFF-1	01/18/10	Density	g/cc	1.0*
018 EFF-1	01/18/10	Sediment	mg/l	ND <10*
018 EFF-2	01/19/10	Density	g/cc	1.0*
018 EFF-2	01/19/10	Sediment	mg/l	26*
018 EFF-3	01/20/10	Density	g/cc	1.0*
018 EFF-3	01/20/10	Sediment	mg/l	20*
018 EFF-4	01/20/10	Density	g/cc	1.0*
018 EFF-4	01/20/10	Sediment	mg/l	18*
018 EFF-5	01/21/10	Density	g/cc	0.99*
018 EFF-5	01/21/10	Sediment	mg/l	14*
018 EFF-6	01/21/10	Density	g/cc	0.99*
018 EFF-6	01/21/10	Sediment	mg/l	ND <10*
018 EFF-7	01/22/10	Density	g/cc	0.99*
018 EFF-7	01/22/10	Sediment	mg/l	ND <10*
018 EFF-8	01/22/10	Density	g/cc	1.0*
018 EFF-8	01/22/10	Sediment	mg/l	ND <10*
018 EFF-9	01/23/10	Density	g/cc	1.0*
018 EFF-9	01/23/10	Sediment	mg/l	10*
018 EFF-10	01/23/10	Density	g/cc	1.0*
018 EFF-10	01/23/10	Sediment	mg/l	12*
018 EFF-11	01/23/10	Density	g/cc	0.99*
018 EFF-11	01/23/10	Sediment	mg/l	ND <10*
018 EFF-12	01/24/10	Density	g/cc	1.0*
018 EFF-12	01/24/10	Sediment	mg/l	ND <10*
018 EFF-13	01/24/10	Density	g/cc	1.0*
018 EFF-13	01/24/10	Sediment	mg/l	ND <10*
018 EFF-14	01/25/10	Density	g/cc	1.0*
018 EFF-14	01/25/10	Sediment	mg/l	ND <10*
018 EFF-15	01/26/10	Density	g/cc	1.0*
018 EFF-15	01/26/10	Sediment	mg/l	ND <10*
018 EFF-16	01/28/10	Density	g/cc	0.99*
018 EFF-16	01/28/10	Sediment	mg/l	ND <10*
018 EFF-17	01/29/10	Density	g/cc	0.99*
018 EFF-17	01/29/10	Sediment	mg/l	ND <10*
018 EFF-1	02/07/10	Density	g/cc	1.0*
018 EFF-1	02/07/10	Sediment	mg/l	ND <10*
018 EFF-2	02/08/10	Density	g/cc	0.99*
018 EFF-2	02/08/10	Sediment	mg/l	ND <10*
018 EFF-3	02/09/10	Density	g/cc	1.0*
018 EFF-3	02/09/10	Sediment	mg/l	ND <10*
018 EFF-4	02/10/10	Density	g/cc	1.0*
018 EFF-4	02/10/10	Sediment	mg/l	ND <10*
018 EFF-5	02/11/10	Density	g/cc	1.0*
018 EFF-5	02/11/10	Sediment	mg/l	ND <10*

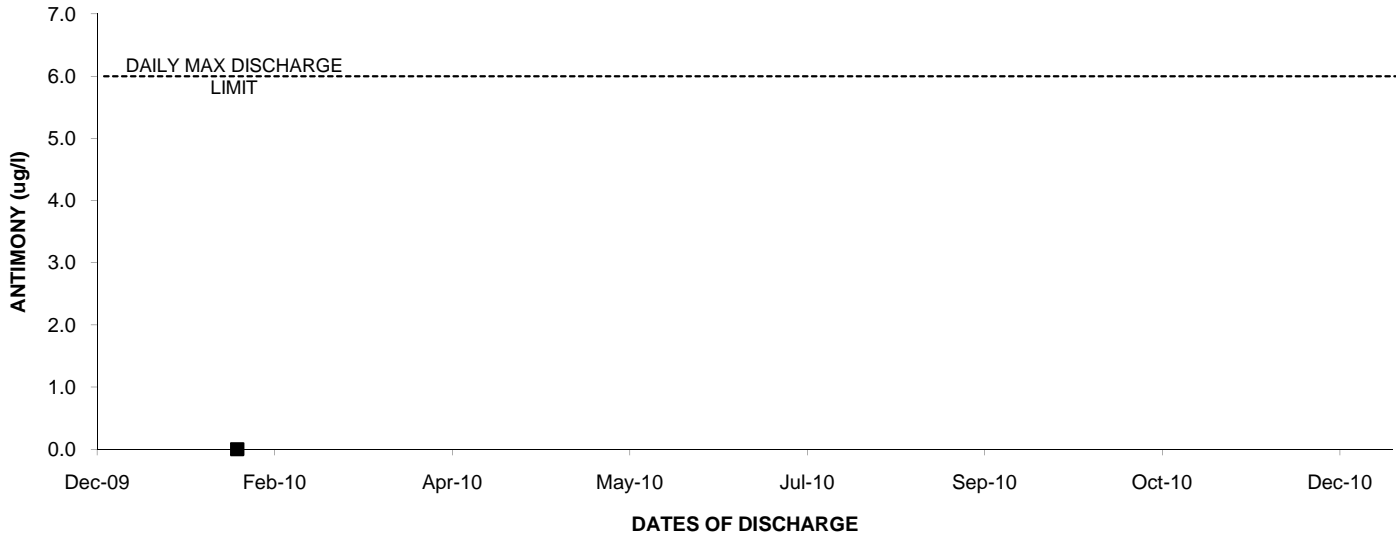
**BMP EFFECTIVENESS  
OUTFALL 018 (R-2 Spillway)**

**ANNUAL 2010 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

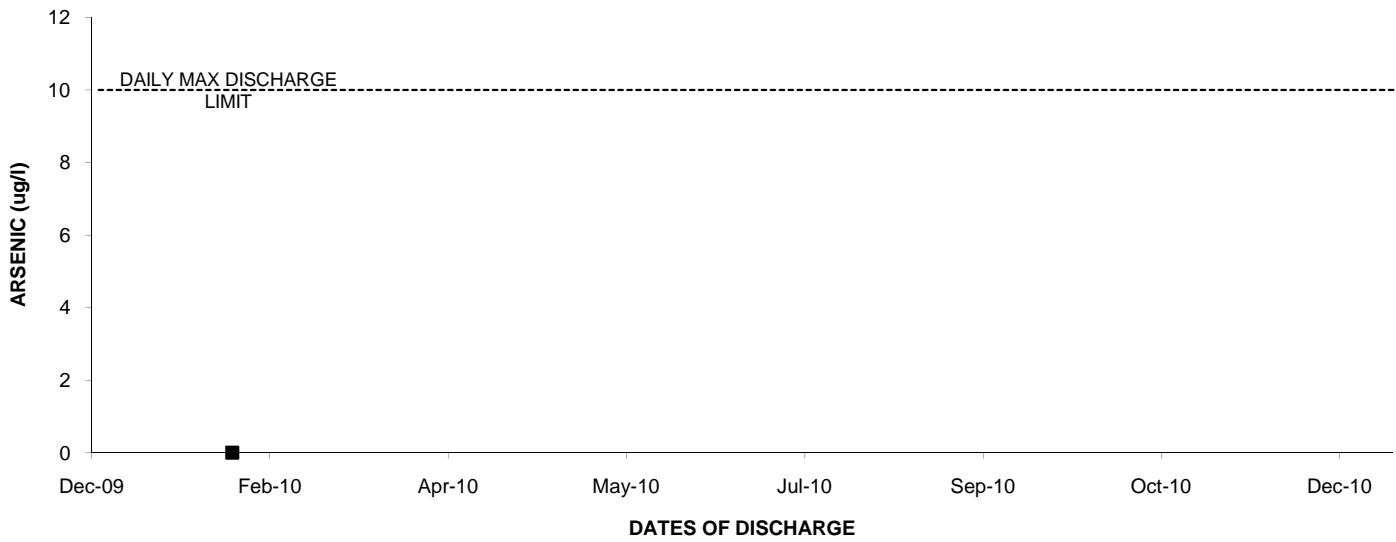
**January 1, 2010 through July 18, 2010**

<b>SAMPLE NAME</b>	<b>SAMPLE DATE</b>	<b>ANALYTE</b>	<b>UNITS</b>	<b>RESULT</b>
018 EFF-1	03/02/10	Density	g/cc	0.99
018 EFF-1	03/02/10	Sediment	mg/l	ND <10
018 EFF-2	03/03/10	Density	g/cc	1.0
018 EFF-2	03/03/10	Sediment	mg/l	ND <10
018 EFF-3	03/04/10	Density	g/cc	1.0
018 EFF-3	03/04/10	Sediment	mg/l	ND <10
018 EFF-1	03/07/10	Density	g/cc	0.99
018 EFF-1	03/07/10	Sediment	mg/l	11

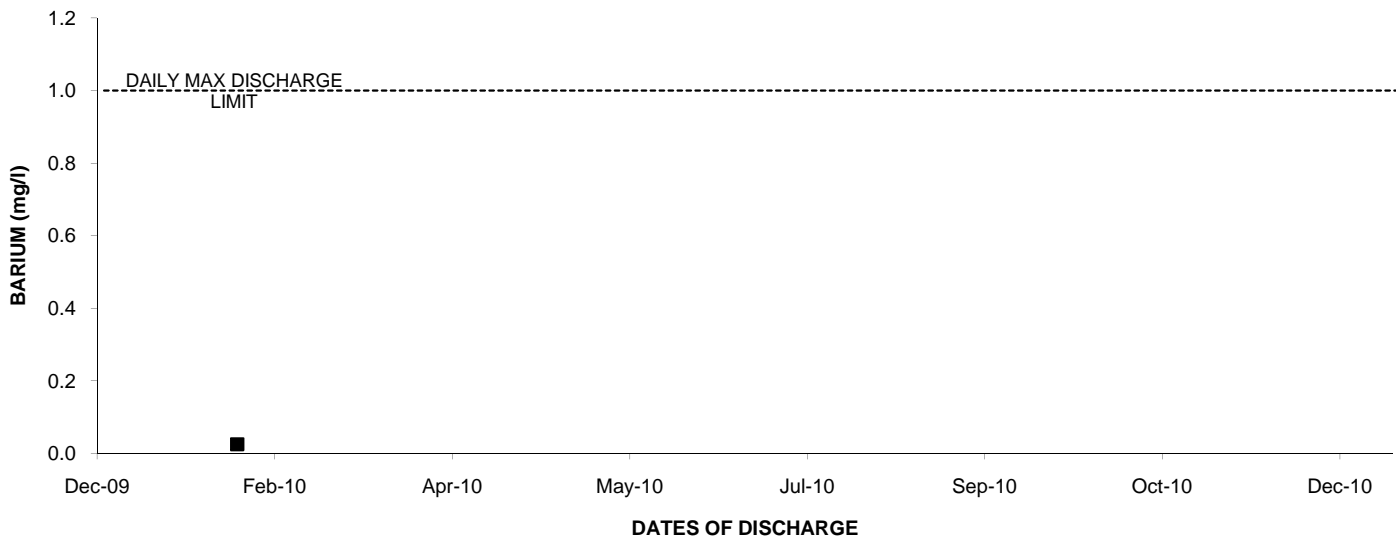
2010: Outfall 018 ANTIMONY



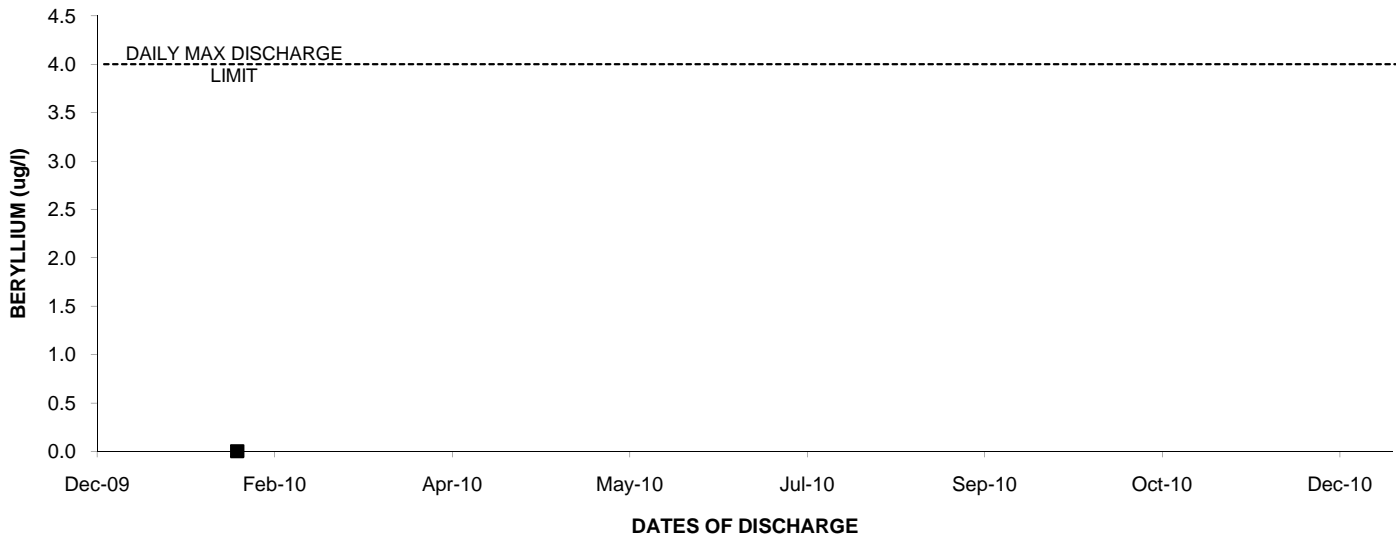
2010: Outfall 018 ARSENIC



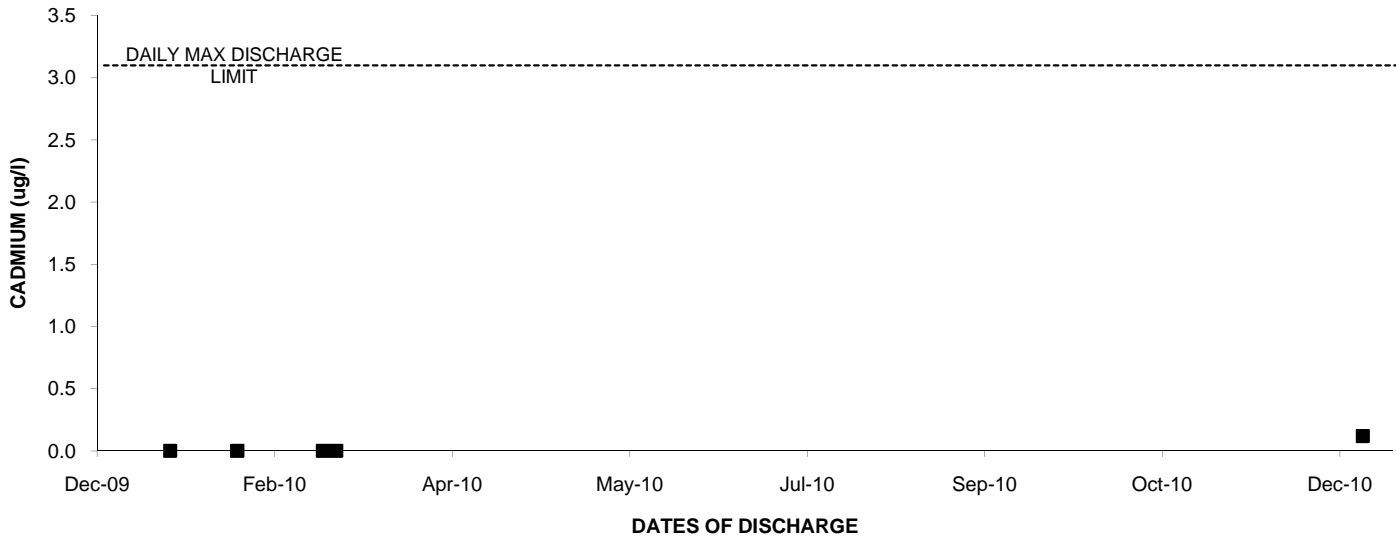
2010: Outfall 018 BARIUM



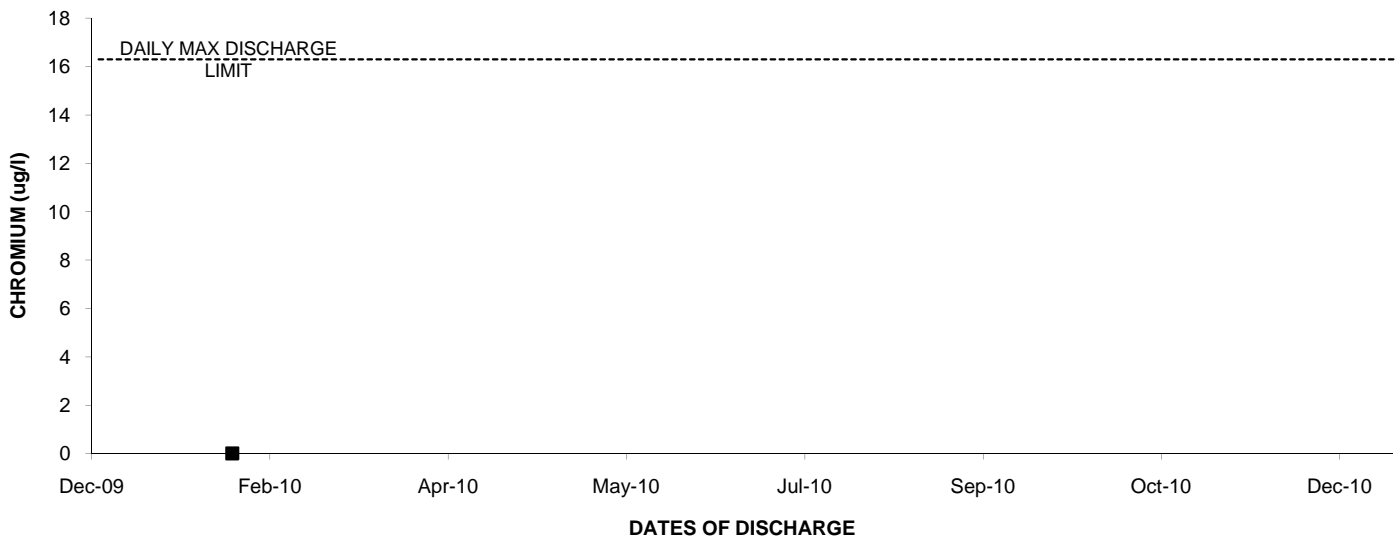
### 2010: Outfall 018 BERYLLIUM



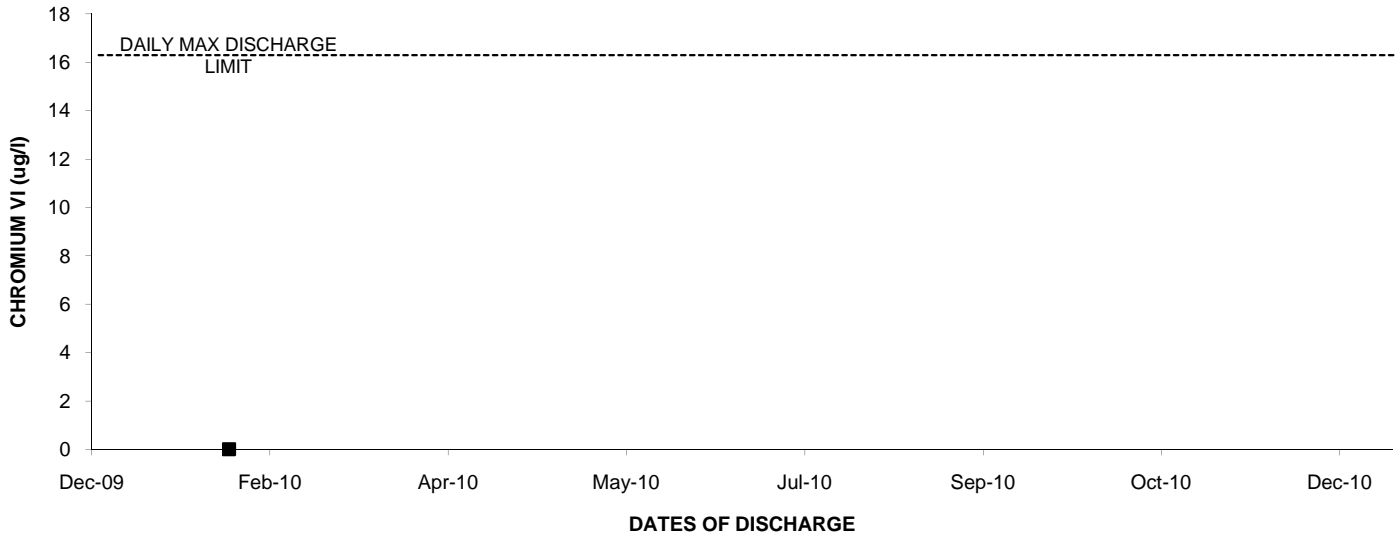
### 2010: Outfall 018 CADMIUM



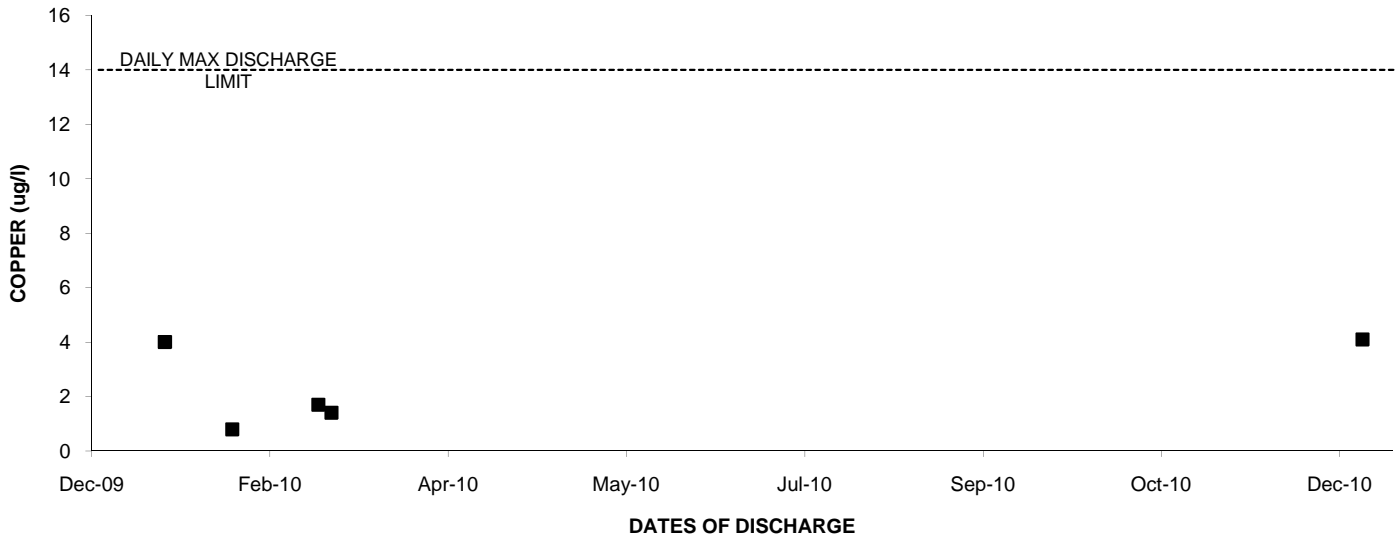
### 2010: Outfall 018 CHROMIUM



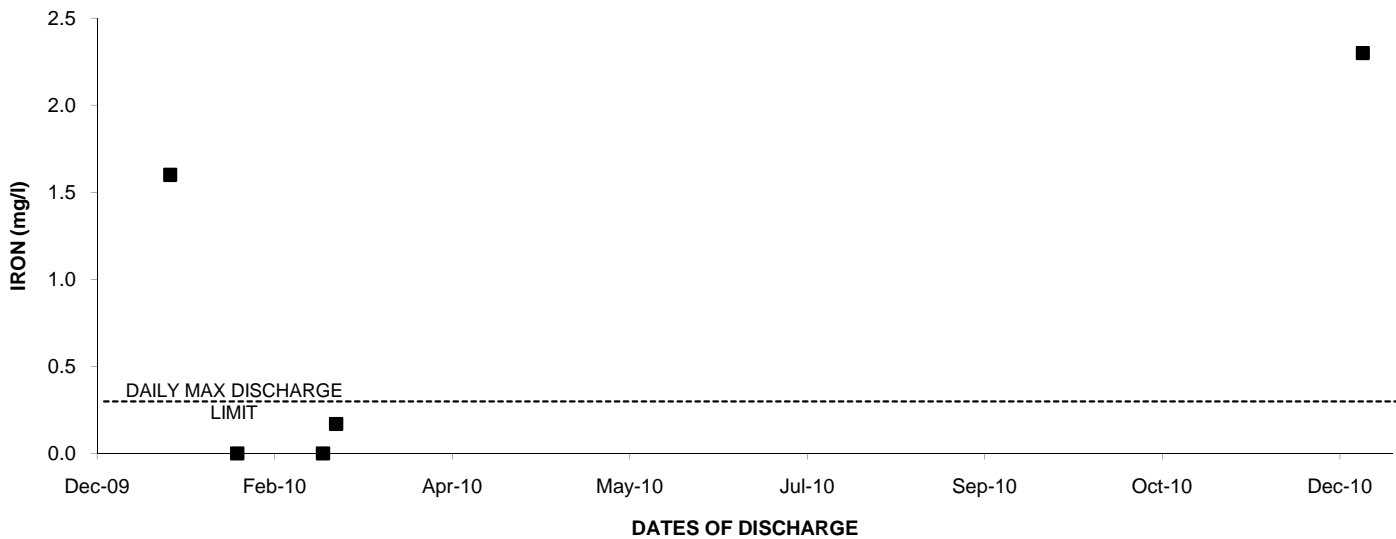
### 2010: Outfall 018 CHROMIUM VI



### 2010: Outfall 018 COPPER

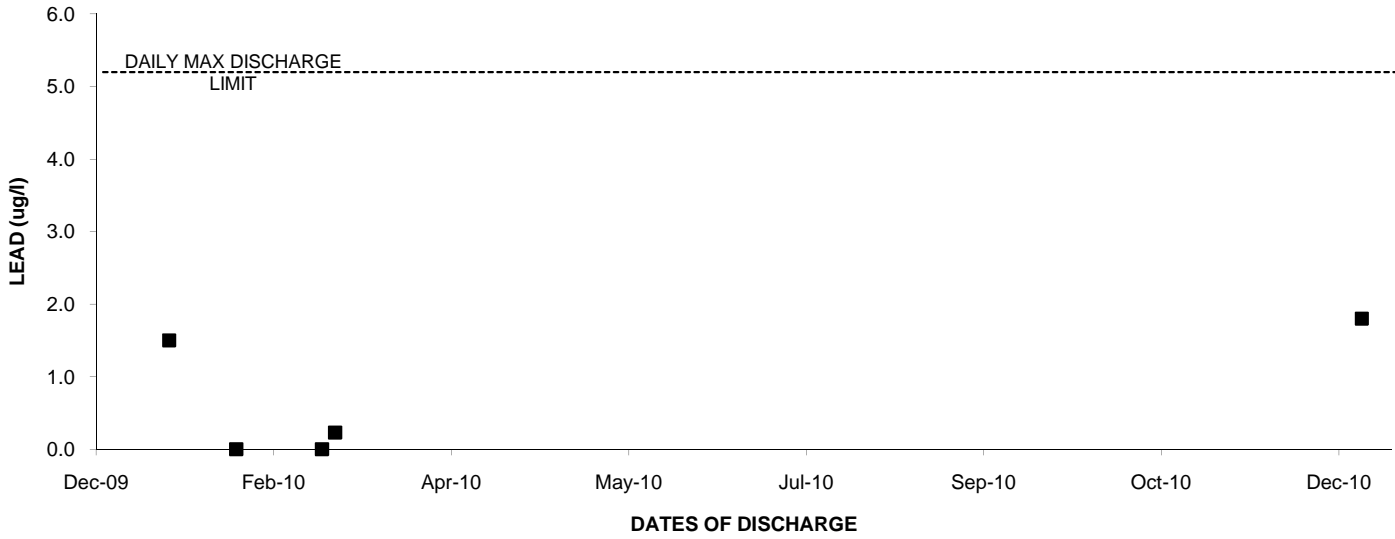


### 2010: Outfall 018 IRON

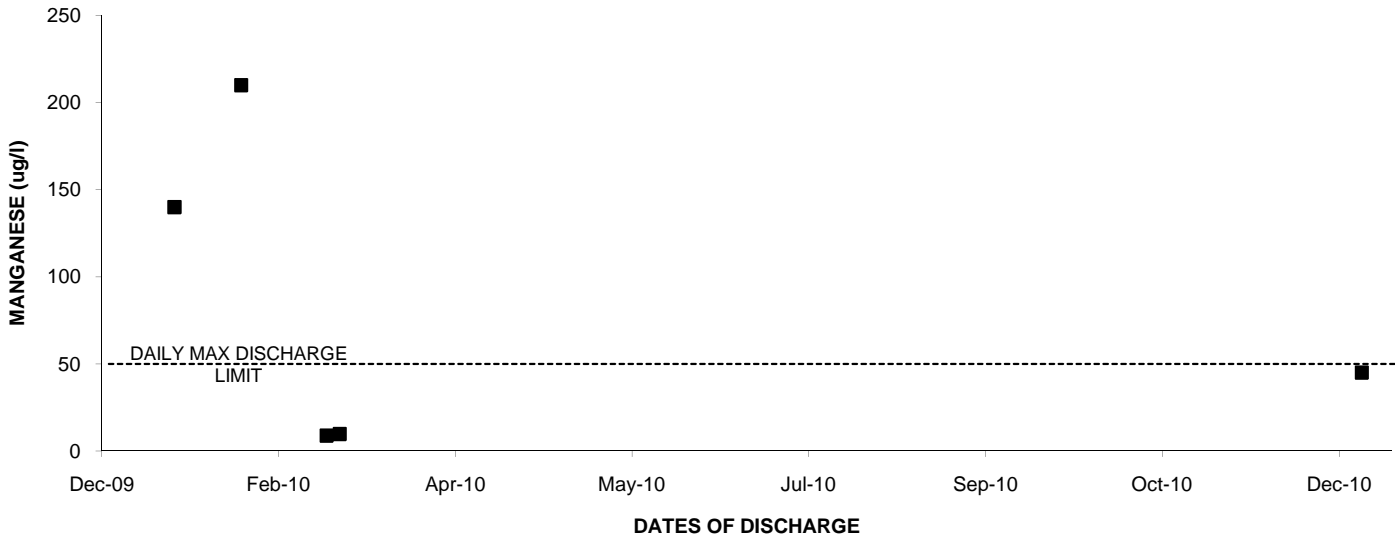




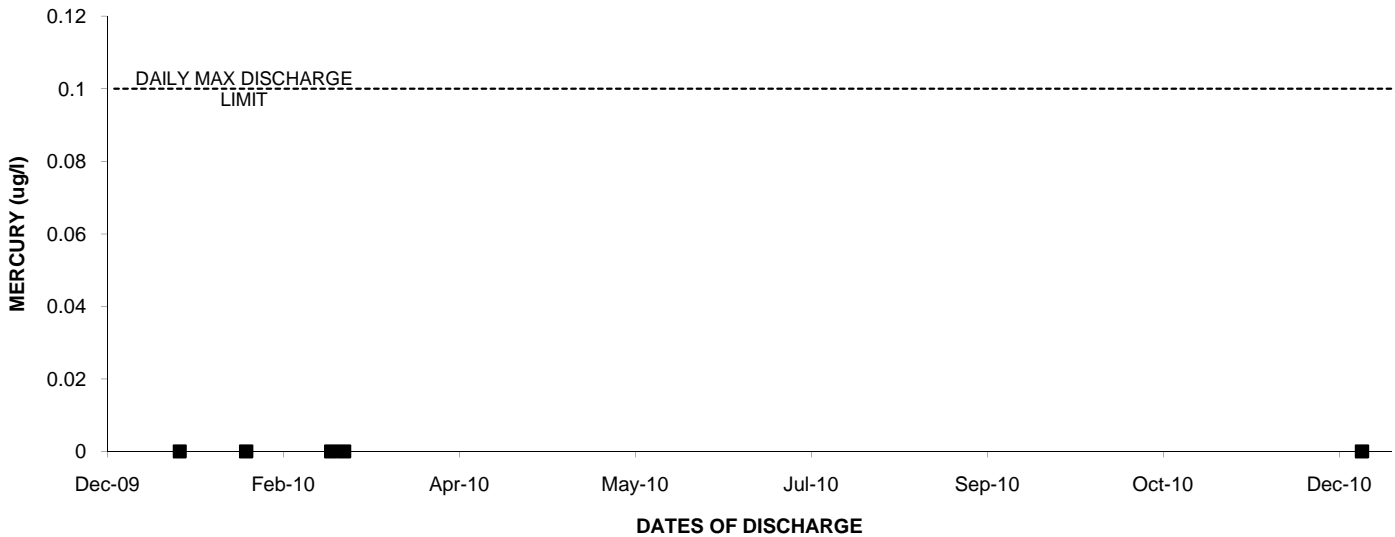
### 2010: Outfall 018 LEAD



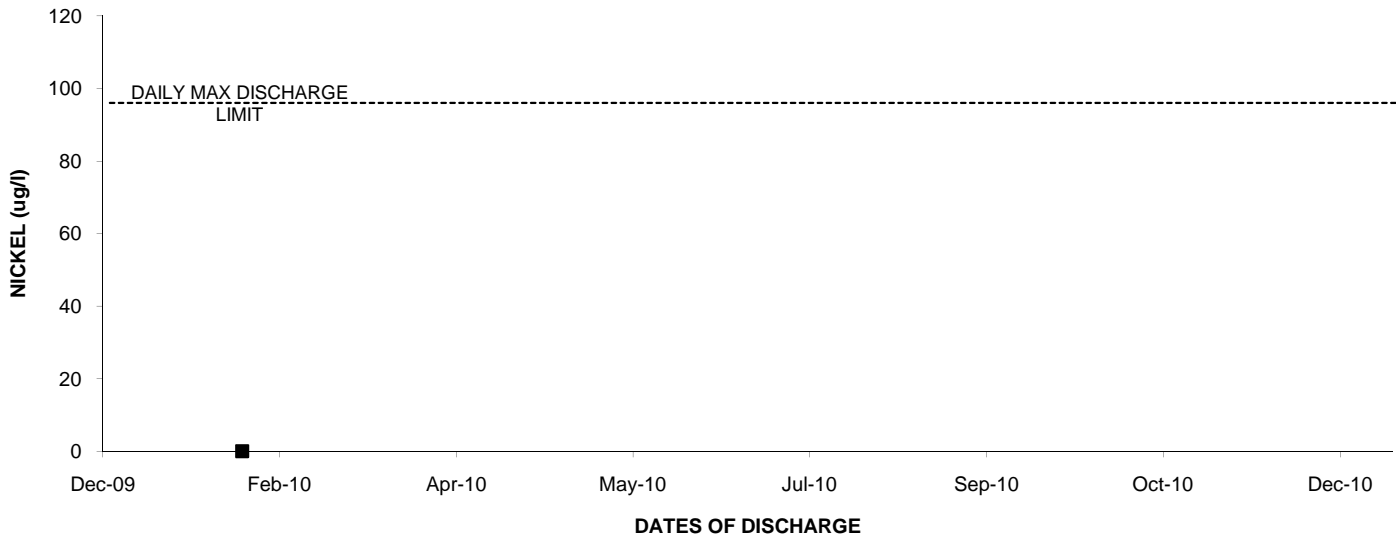
### 2010: Outfall 018 MANGANESE



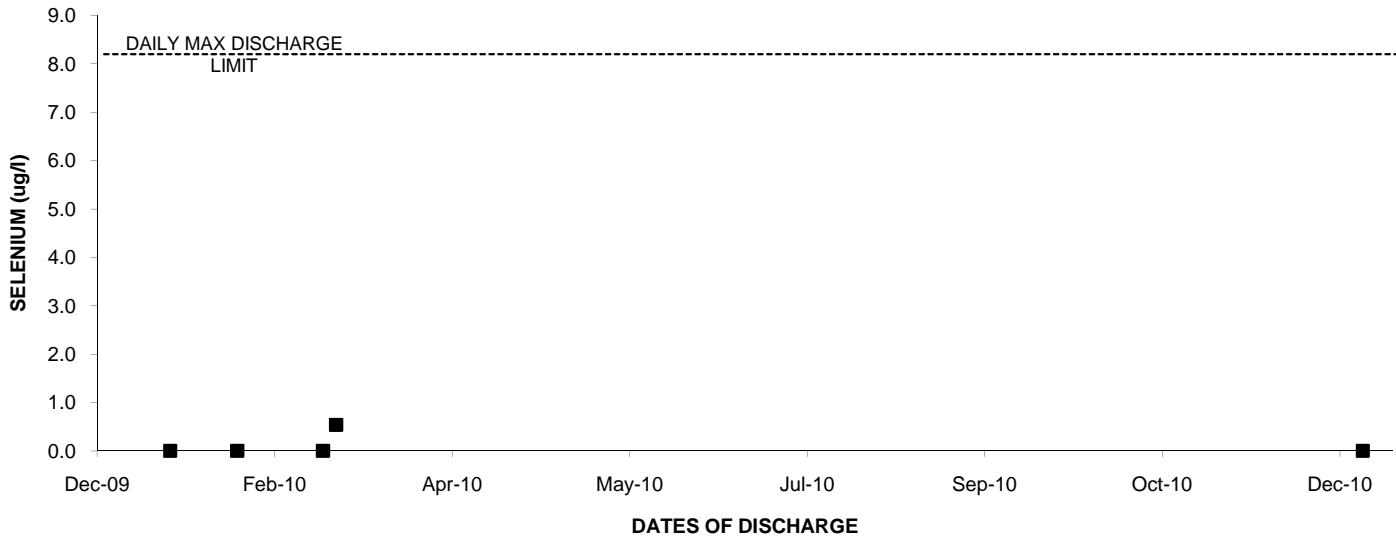
### 2010: Outfall 018 MERCURY



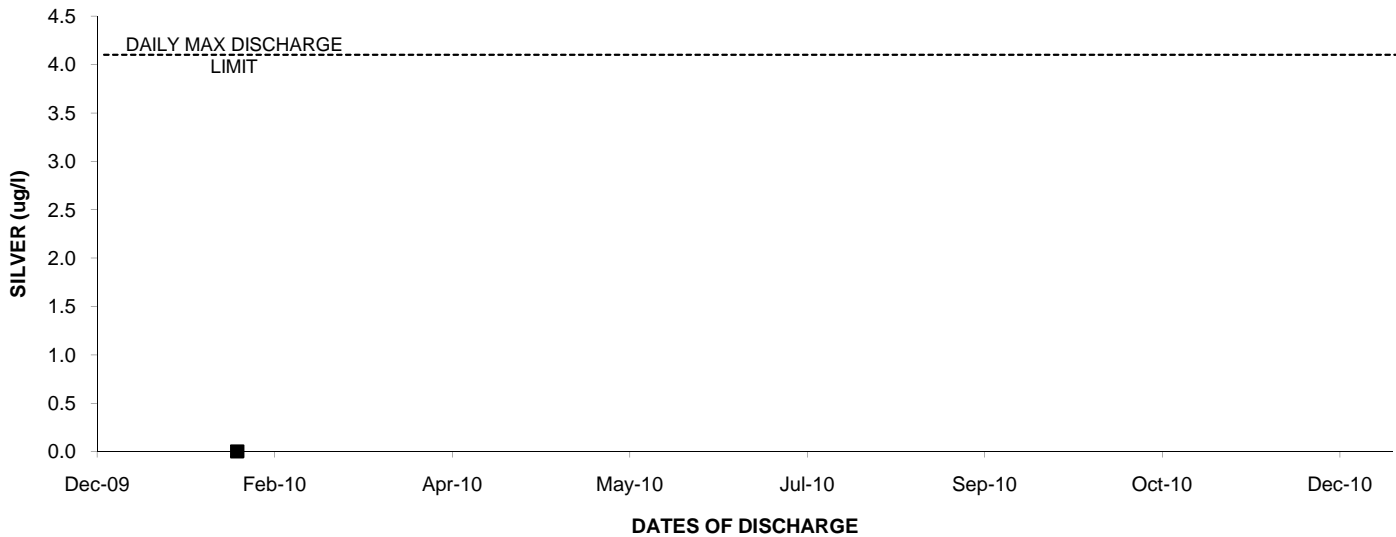
### 2010: Outfall 018 NICKEL



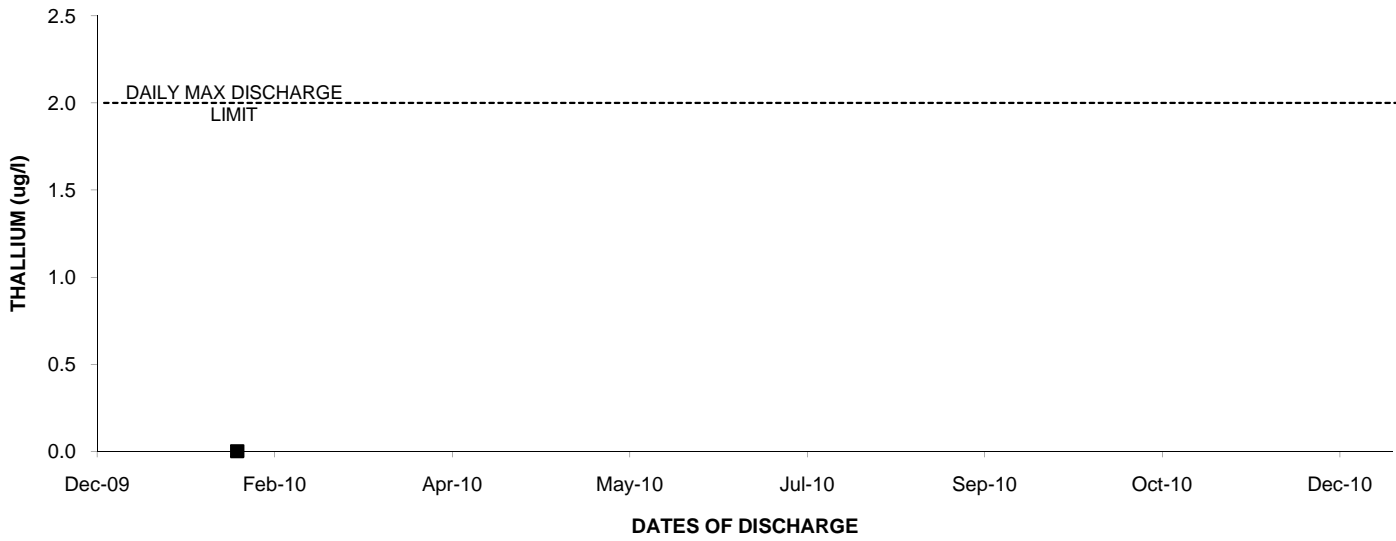
### 2010: Outfall 018 SELENIUM



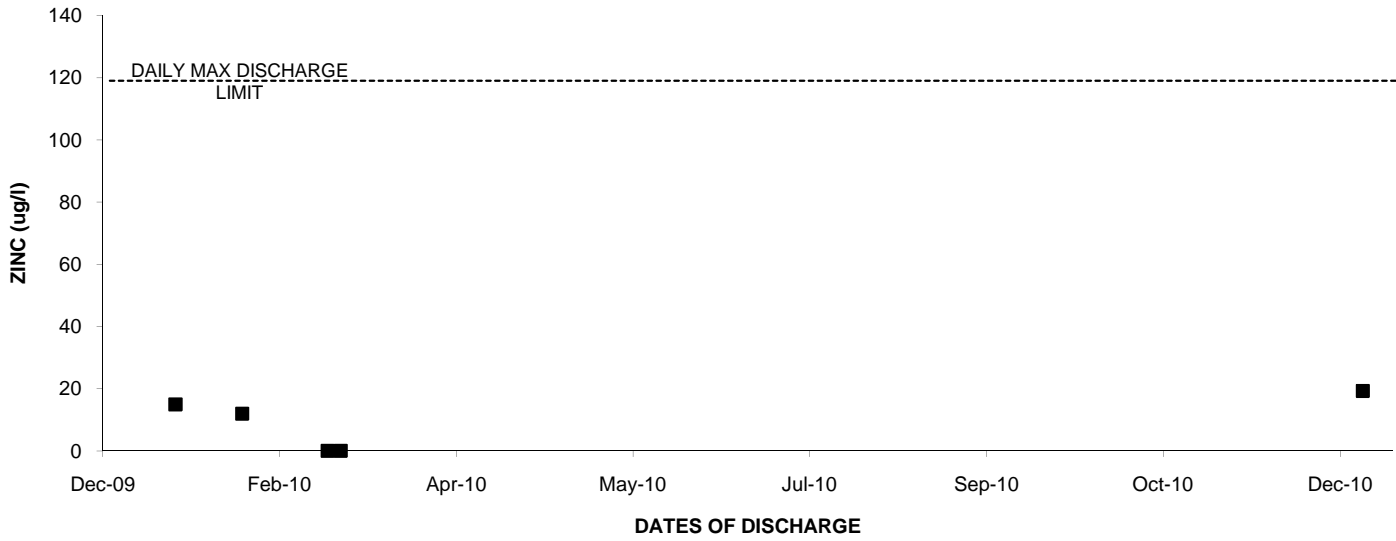
### 2010: Outfall 018 SILVER



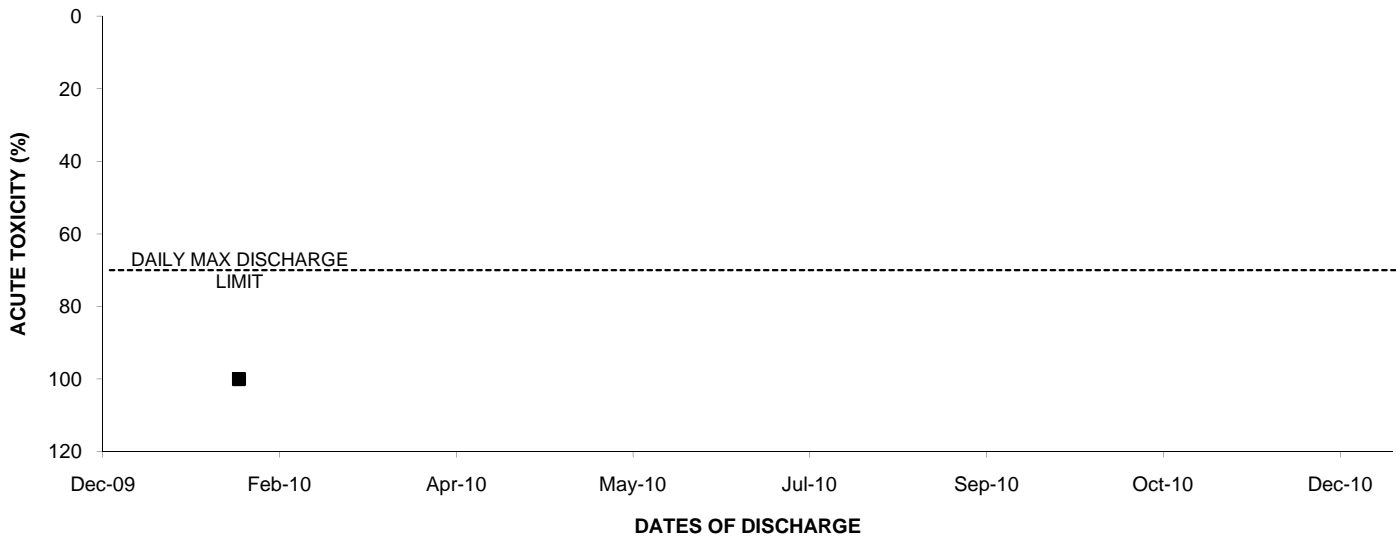
### 2010: Outfall 018 THALLIUM



### 2010: Outfall 018 ZINC

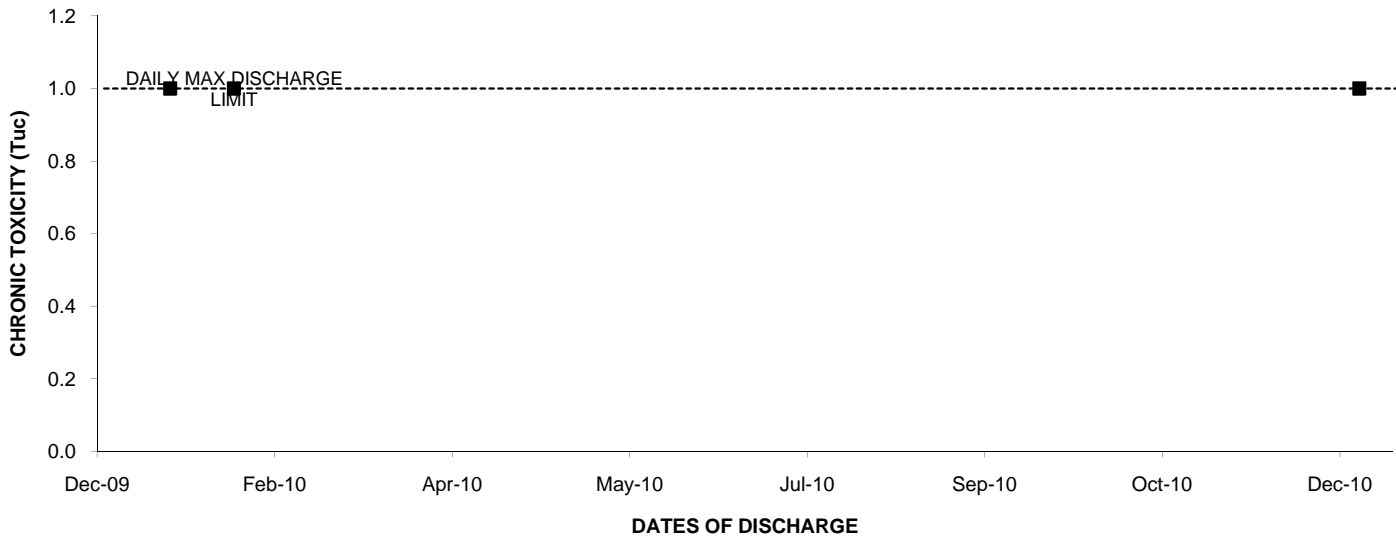


### 2010: Outfall 018 ACUTE TOXICITY

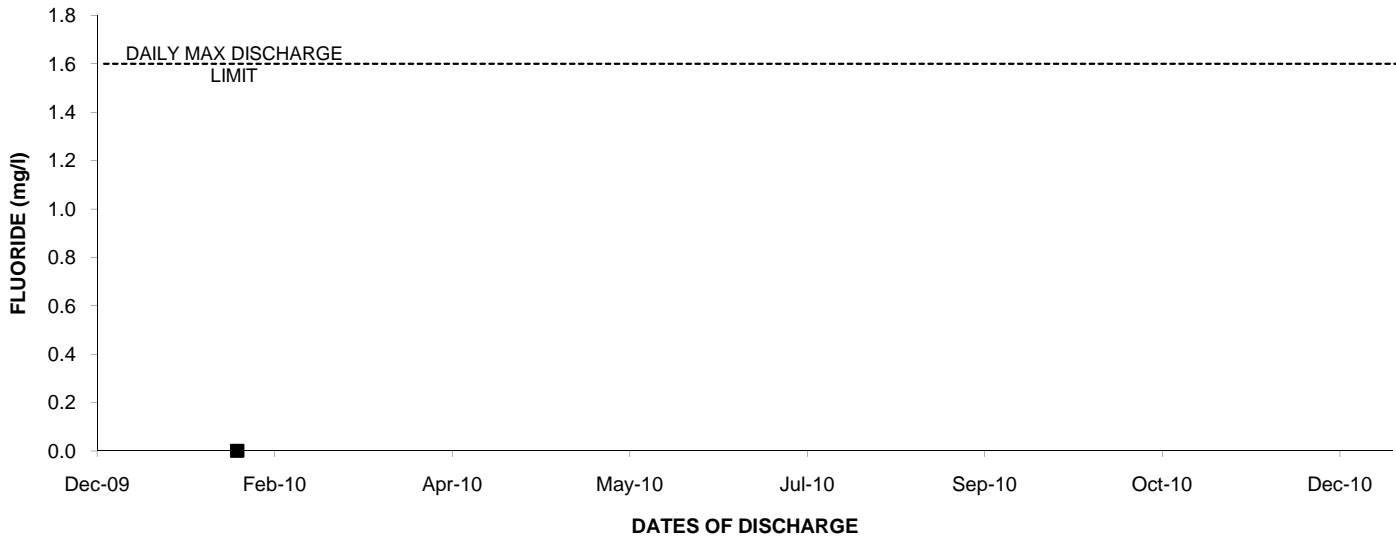




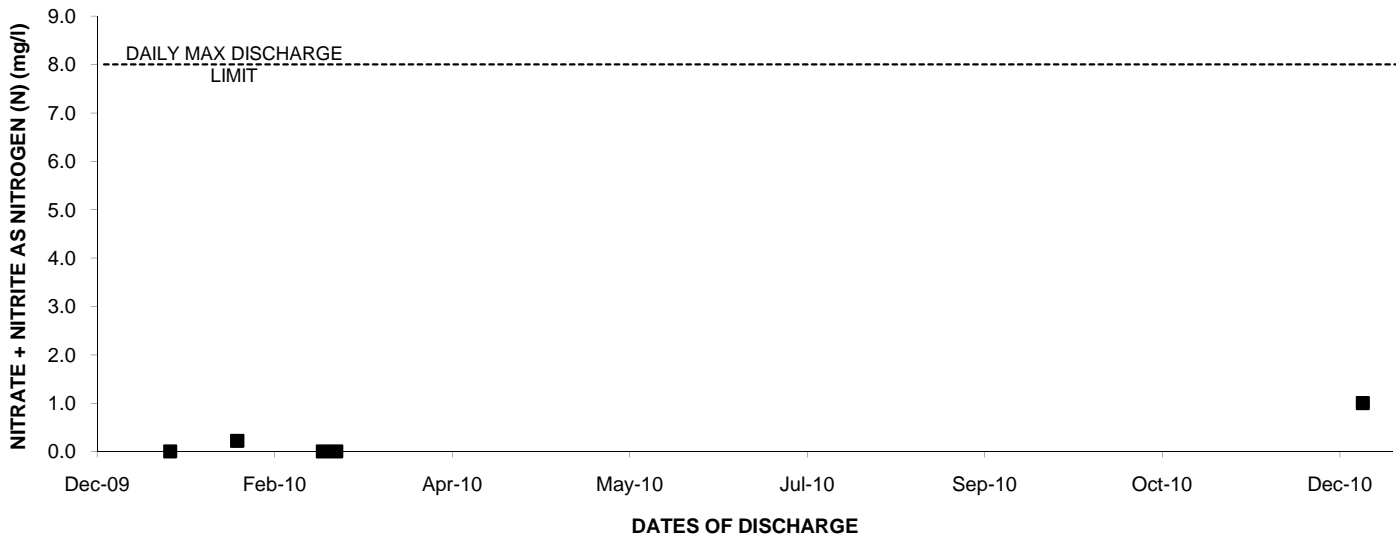
### 2010: Outfall 018 CHRONIC TOXICITY



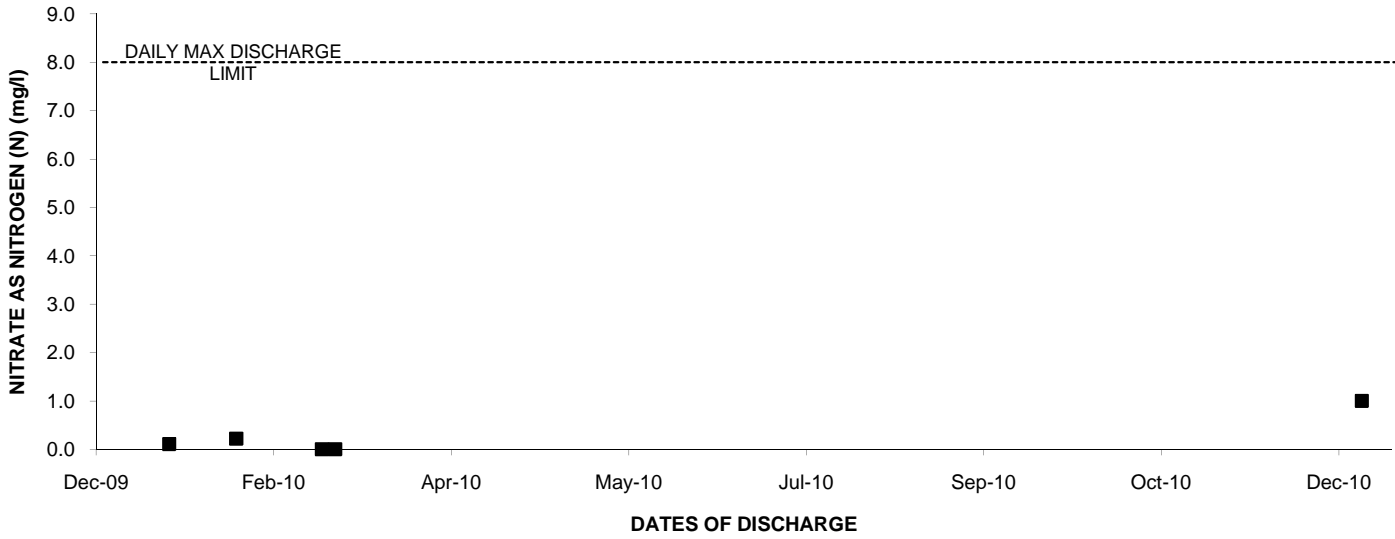
### 2010: Outfall 018 FLUORIDE



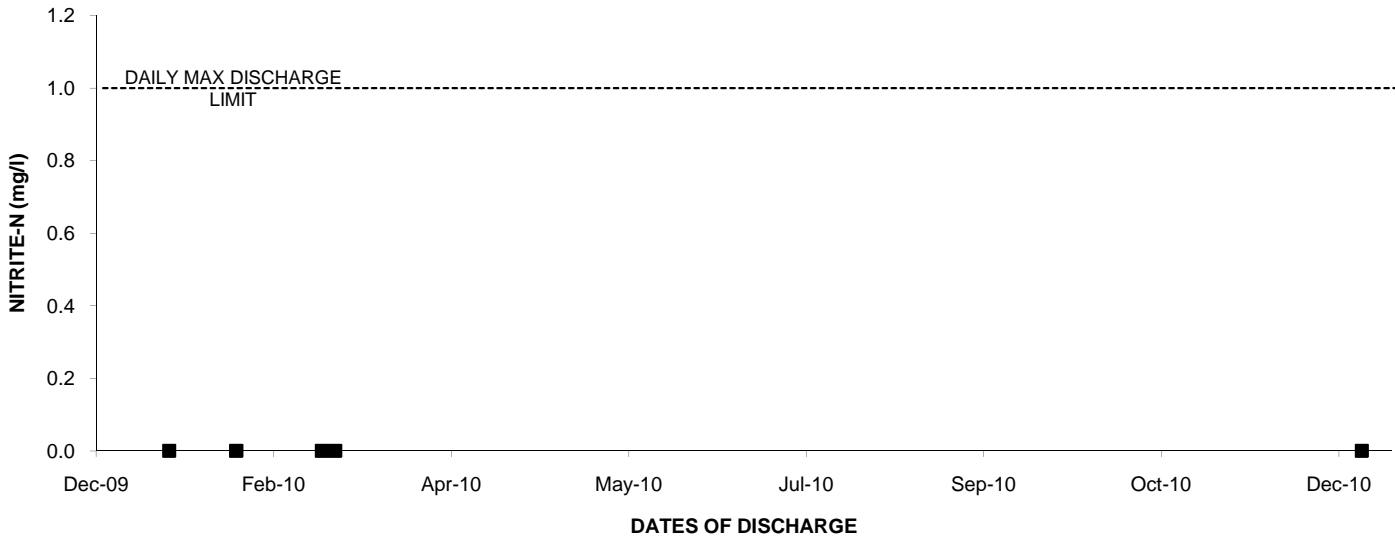
### 2010: Outfall 018 NITRATE + NITRITE AS NITROGEN (N)



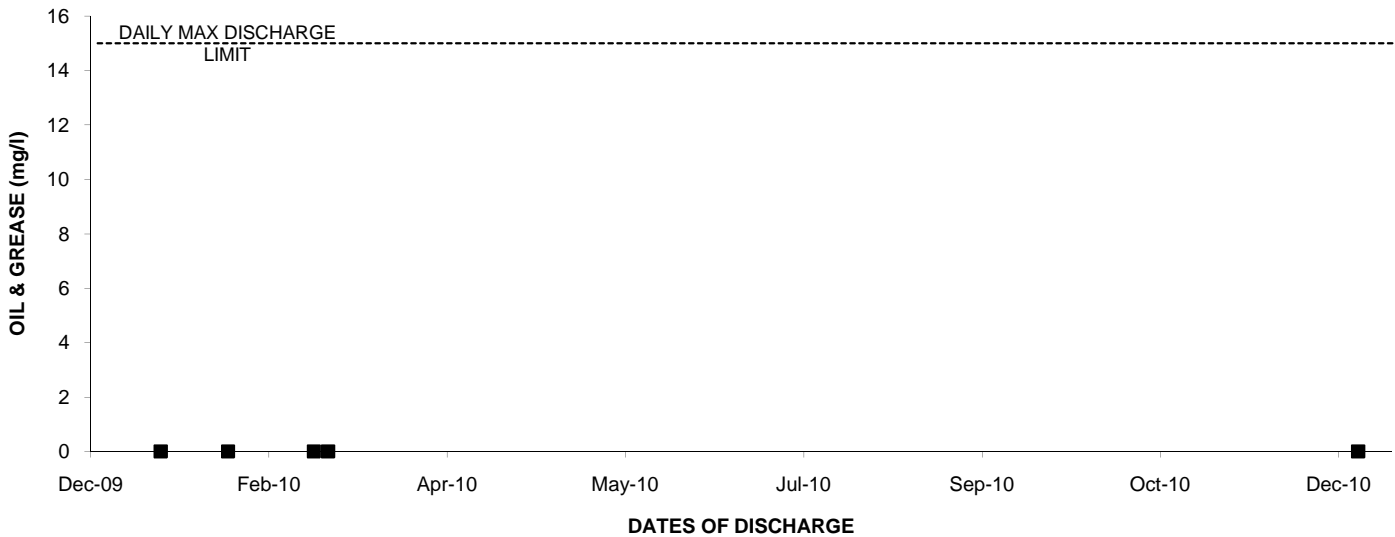
### 2010: Outfall 018 NITRATE AS NITROGEN (N)



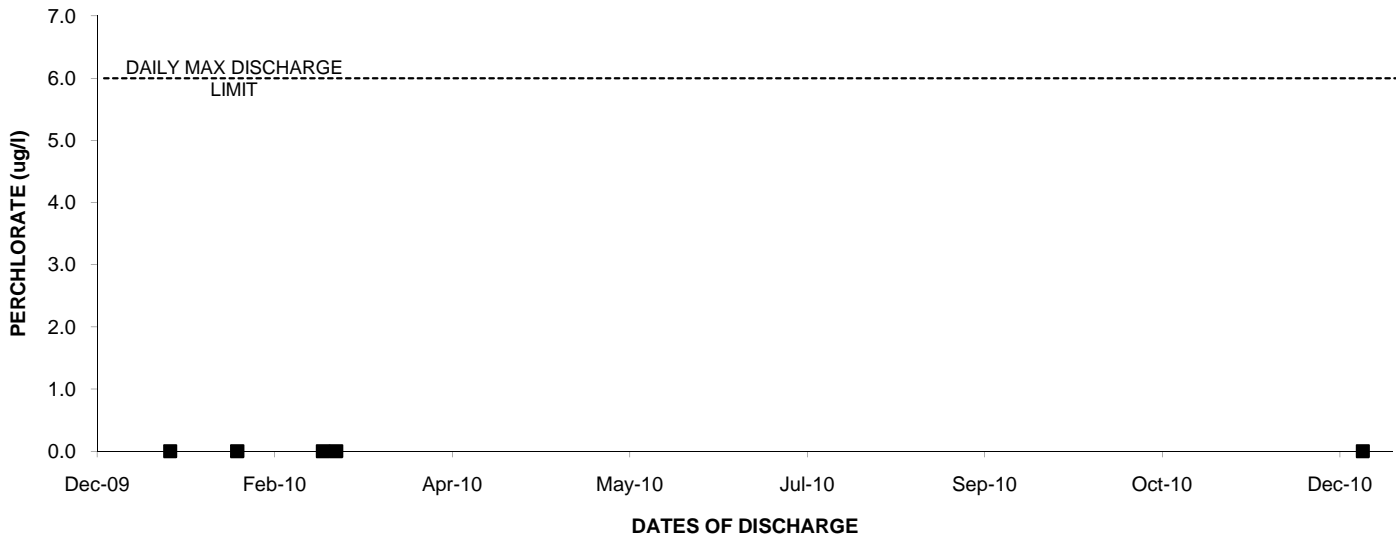
### 2010: Outfall 018 NITRITE-N



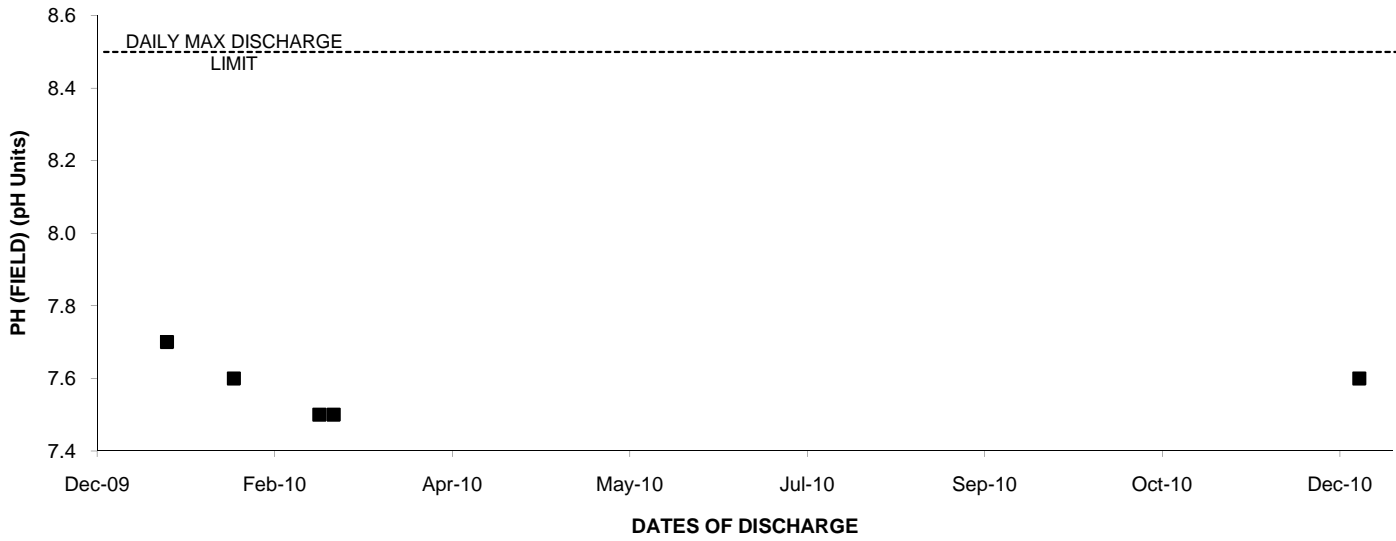
### 2010: Outfall 018 OIL & GREASE



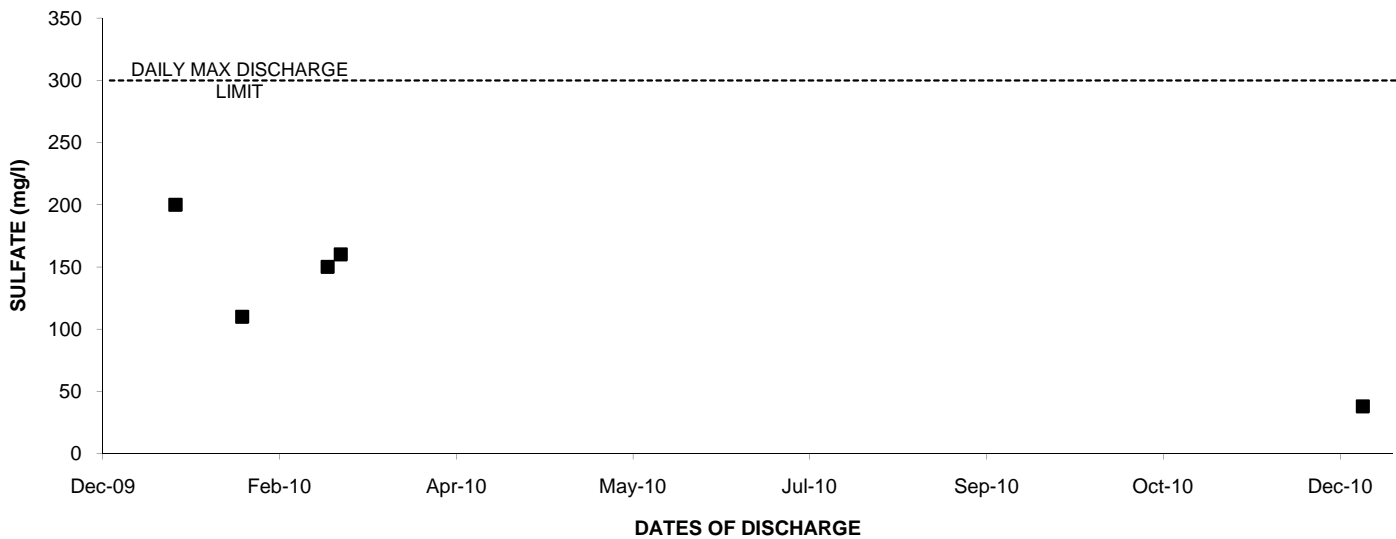
### 2010: Outfall 018 PERCHLORATE



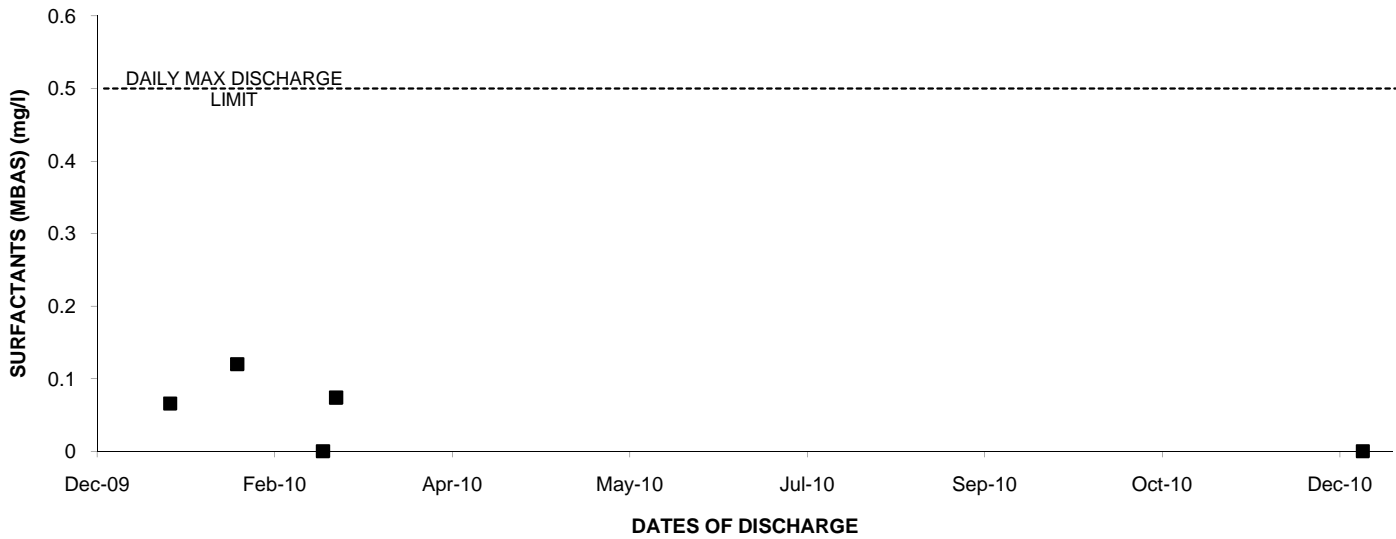
### 2010: Outfall 018 PH (FIELD)



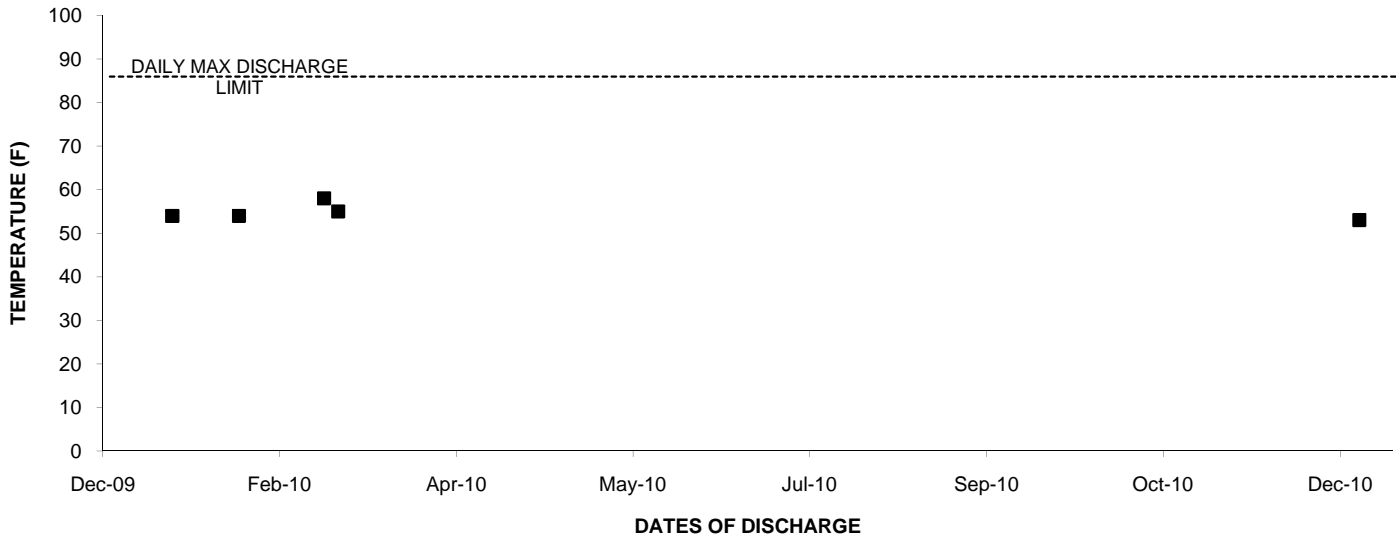
### 2010: Outfall 018 SULFATE



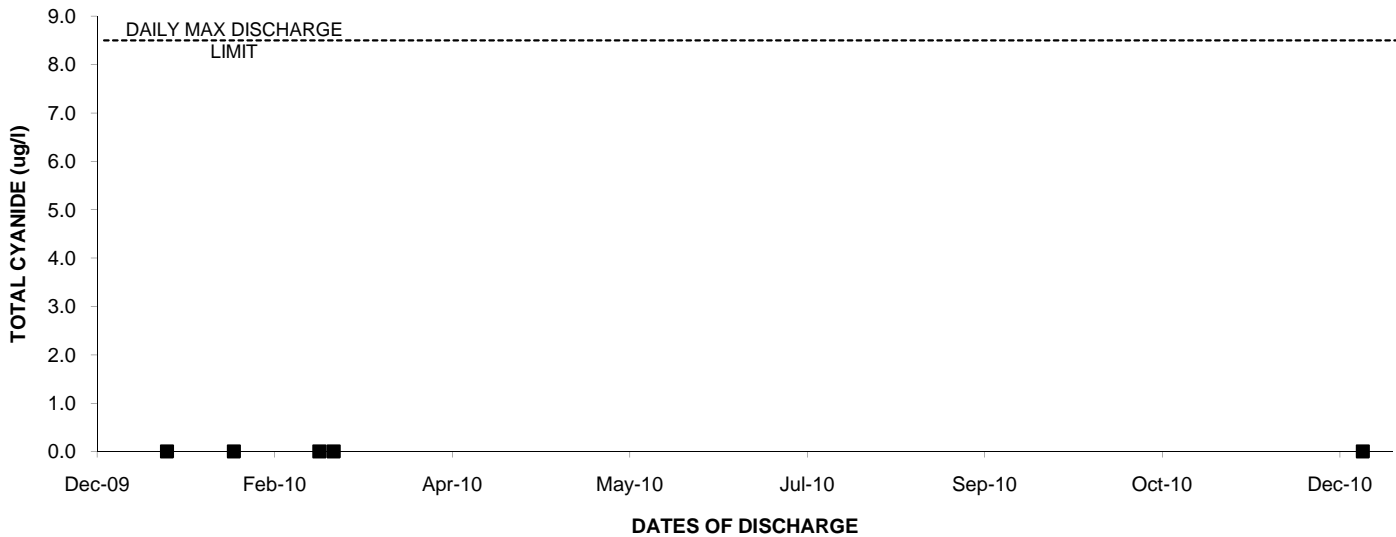
### 2010: Outfall 018 SURFACTANTS (MBAS)



### 2010: Outfall 018 TEMPERATURE

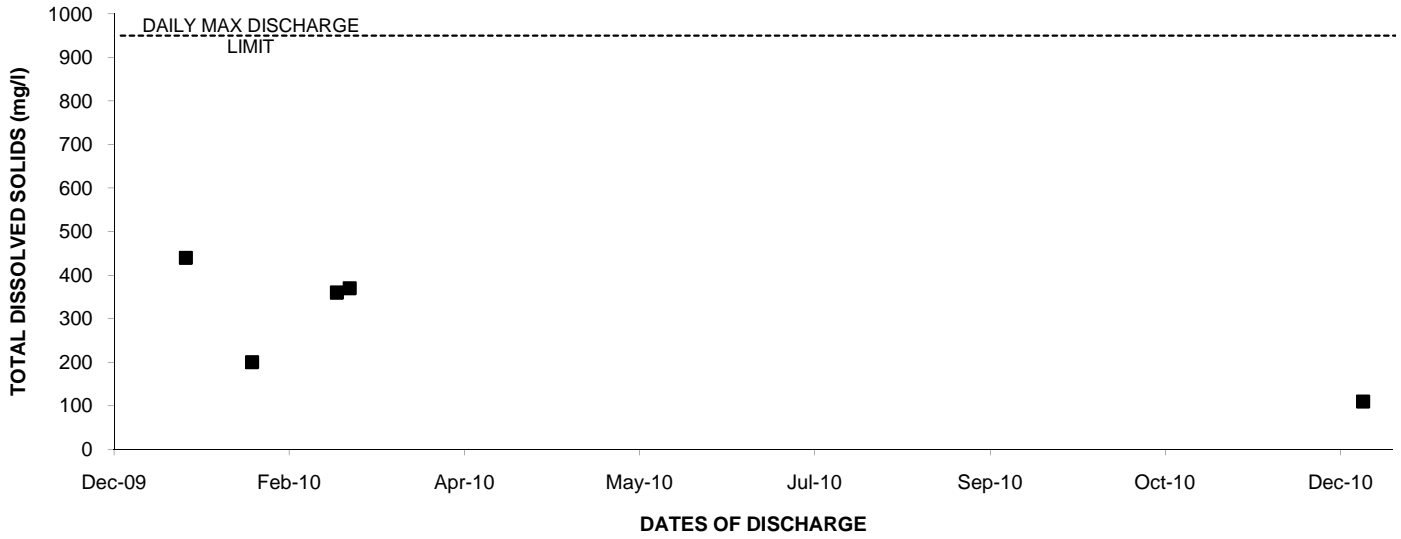


### 2010: Outfall 018 TOTAL CYANIDE

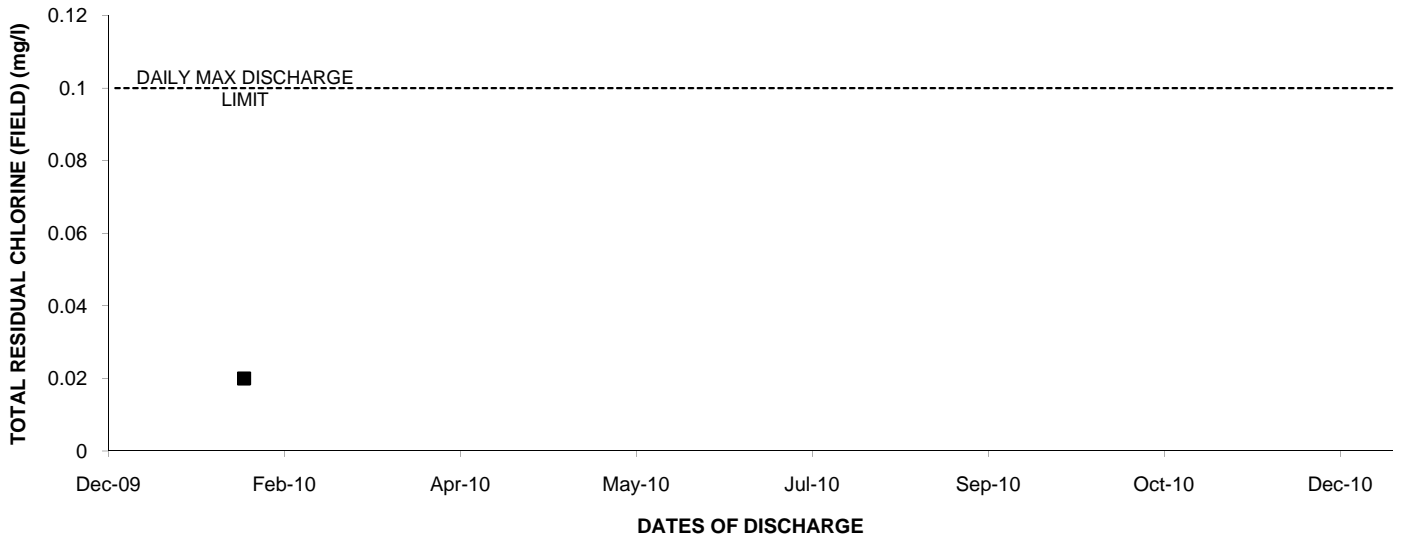




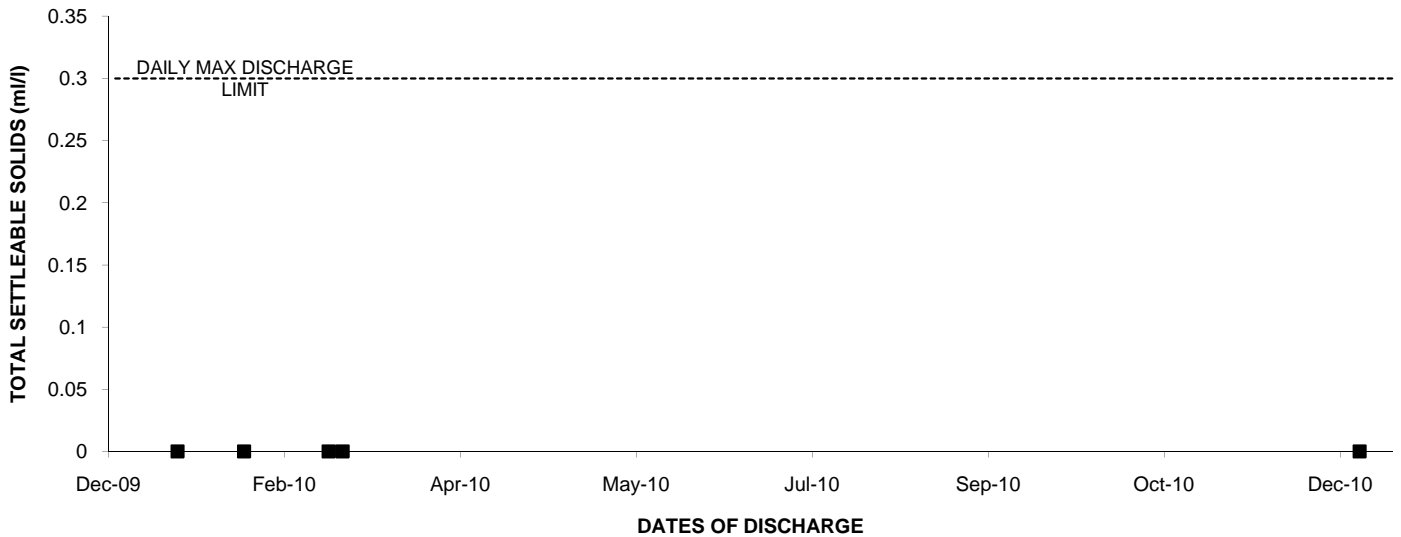
### 2010: Outfall 018 TOTAL DISSOLVED SOLIDS



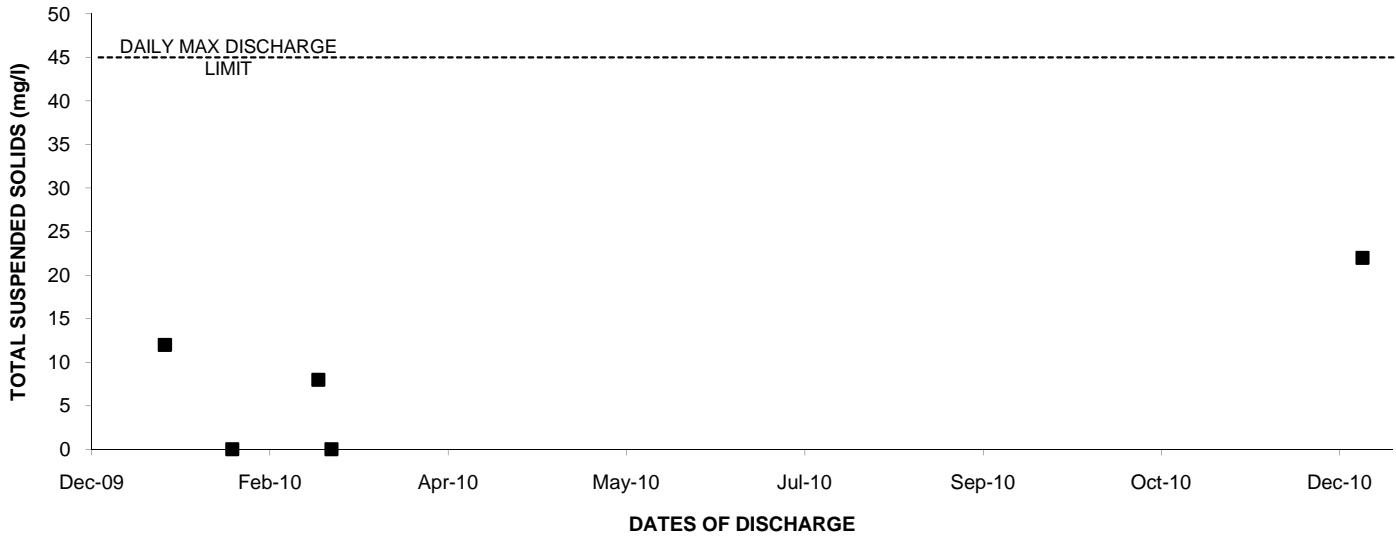
### 2010: Outfall 018 TOTAL RESIDUAL CHLORINE (FIELD)



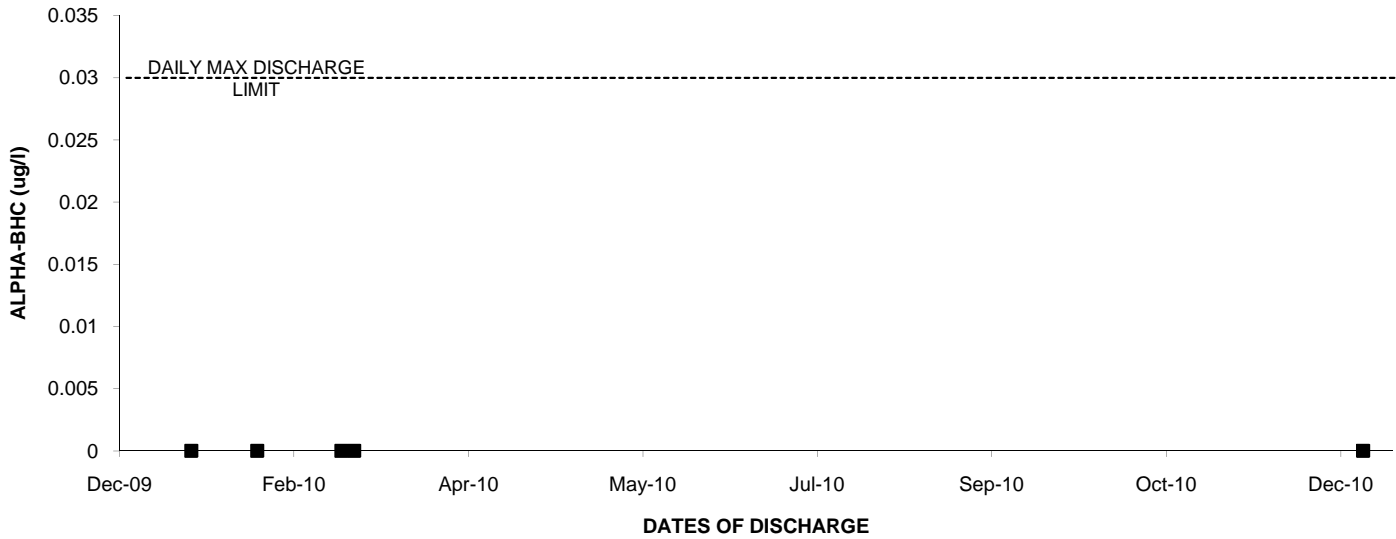
### 2010: Outfall 018 TOTAL SETTLEABLE SOLIDS



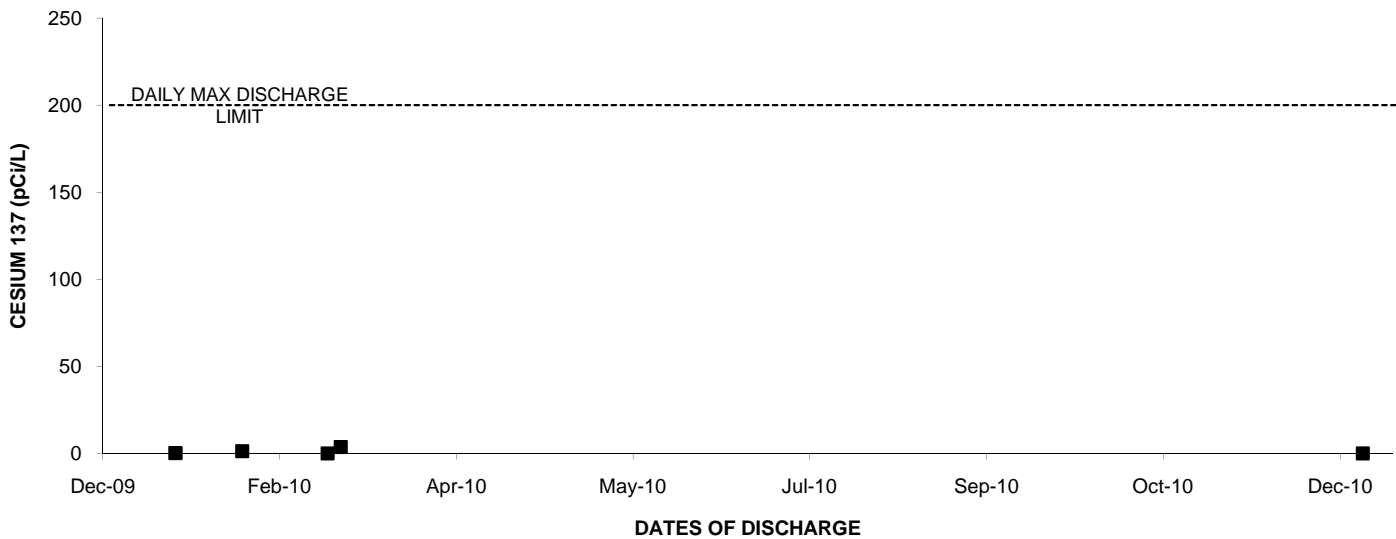
### 2010: Outfall 018 TOTAL SUSPENDED SOLIDS



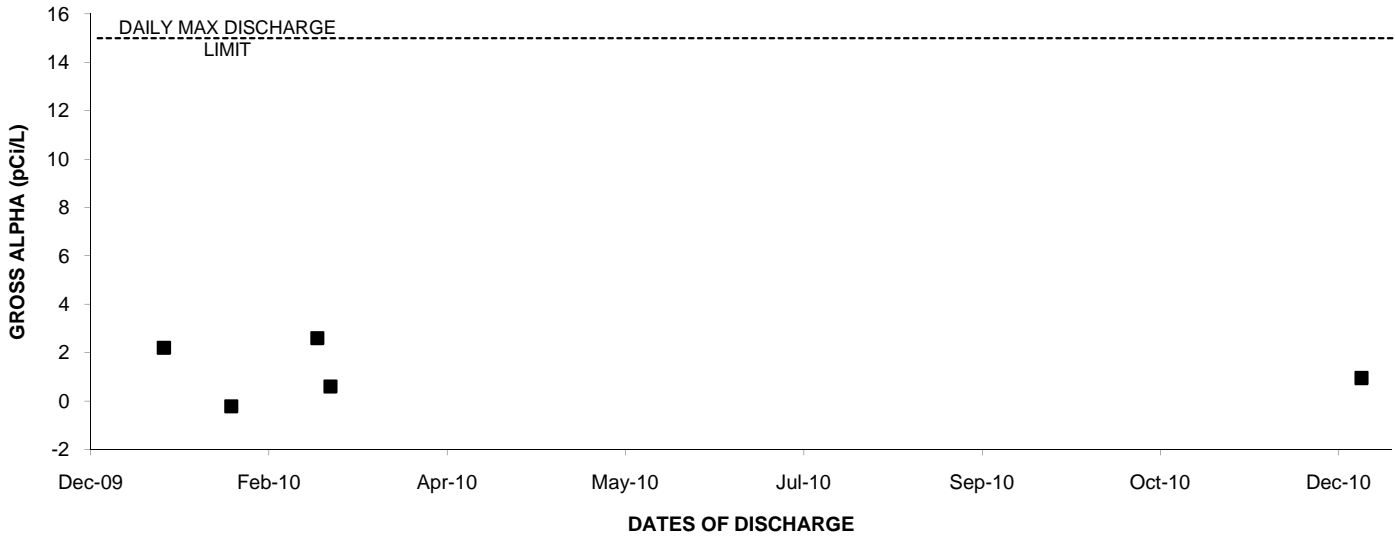
### 2010: Outfall 018 ALPHA-BHC



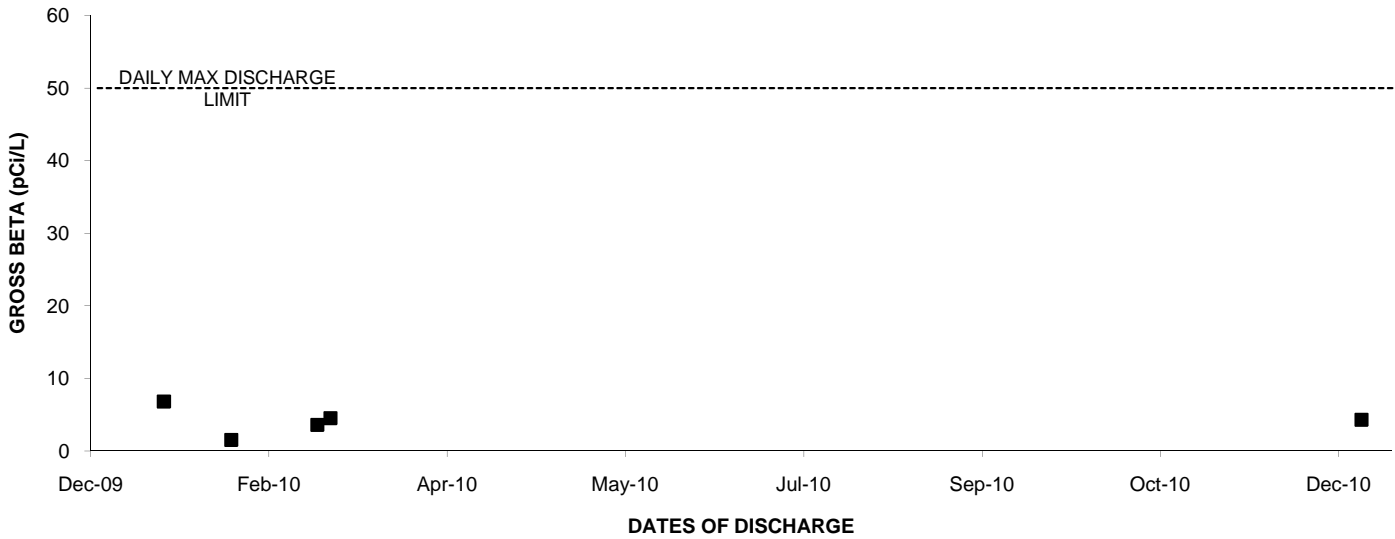
### 2010: Outfall 018 CESIUM 137



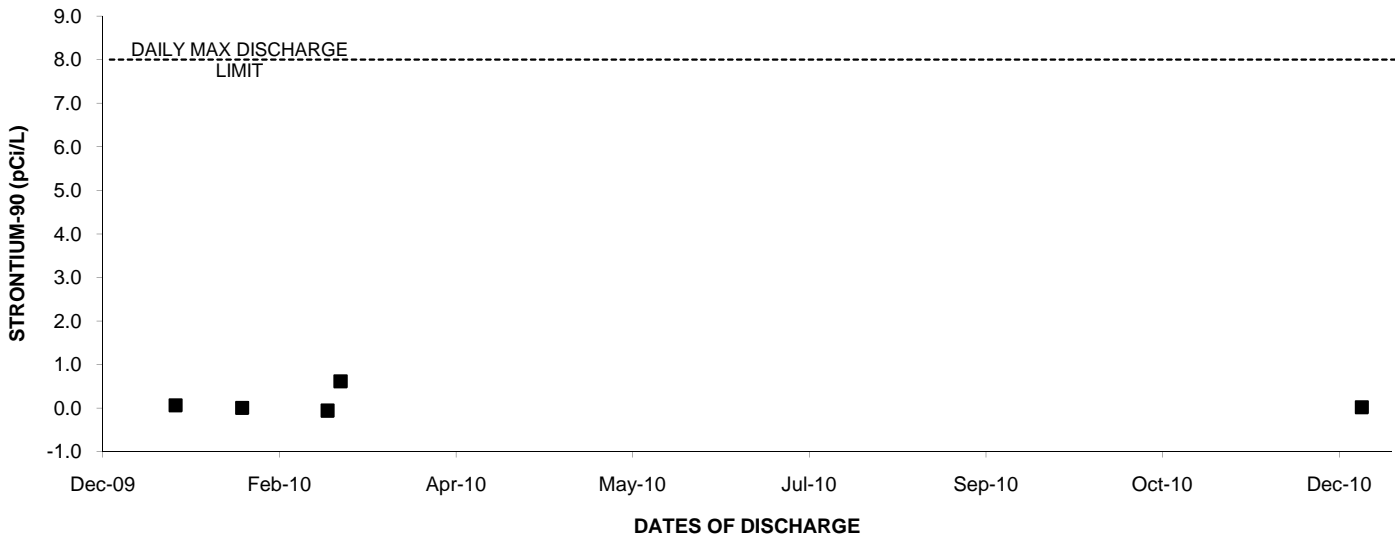
### 2010: Outfall 018 GROSS ALPHA



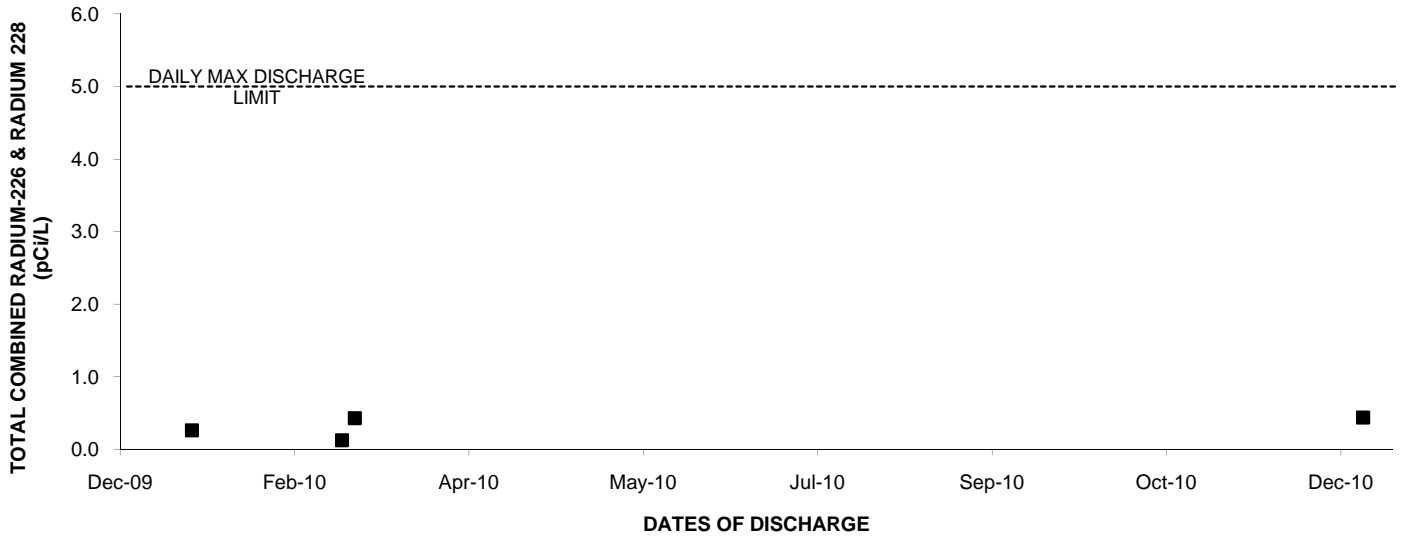
### 2010: Outfall 018 GROSS BETA



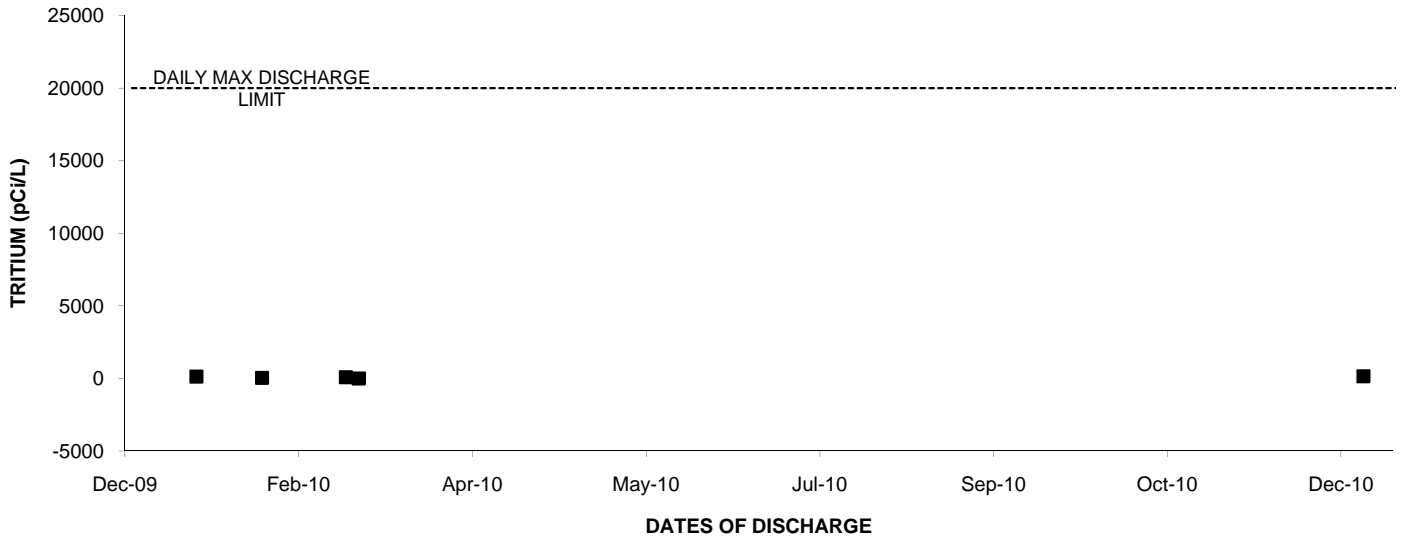
### 2010: Outfall 018 STRONTIUM-90



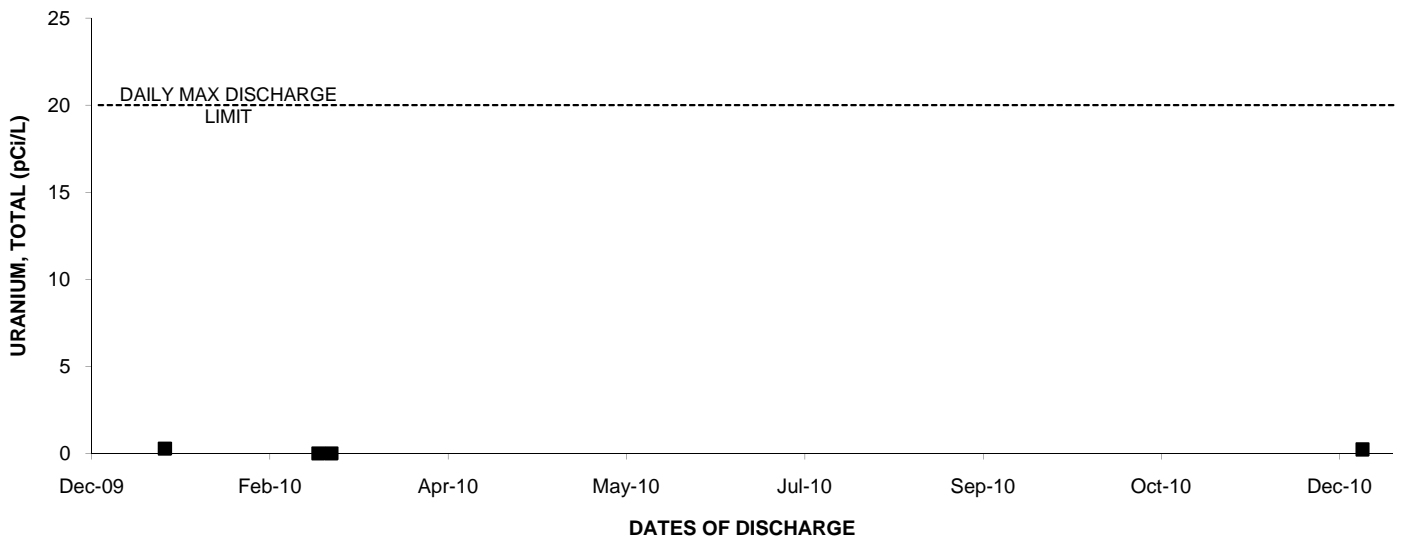
### 2010: Outfall 018 TOTAL COMBINED RADIUM-226 & RADIUM 228



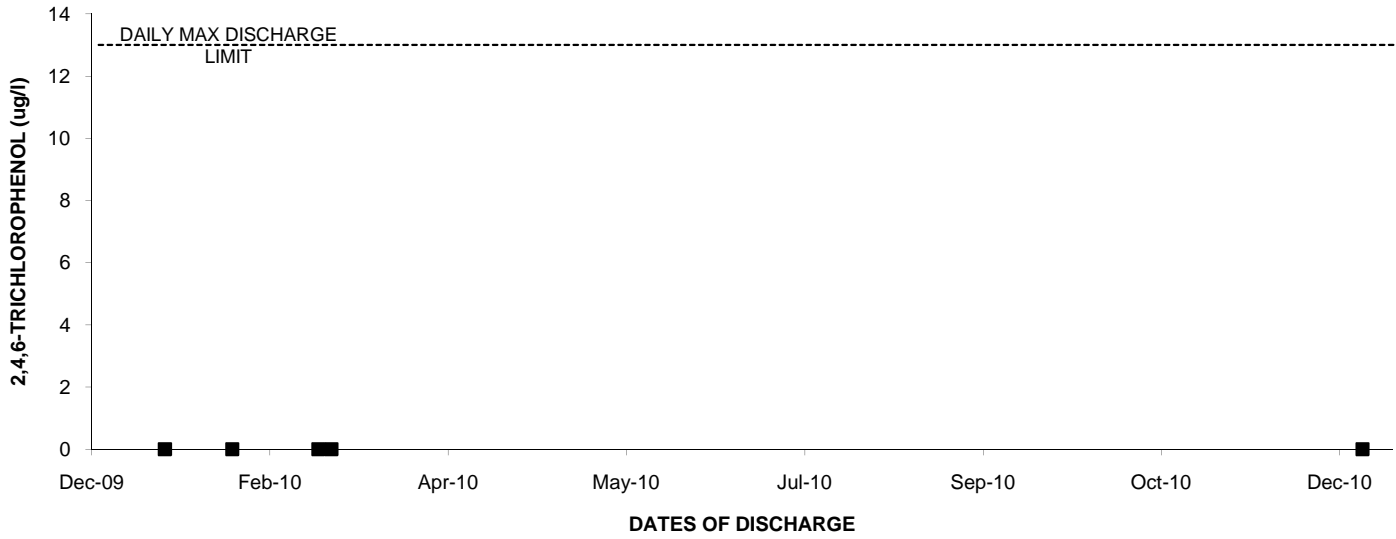
### 2010: Outfall 018 TRITIUM



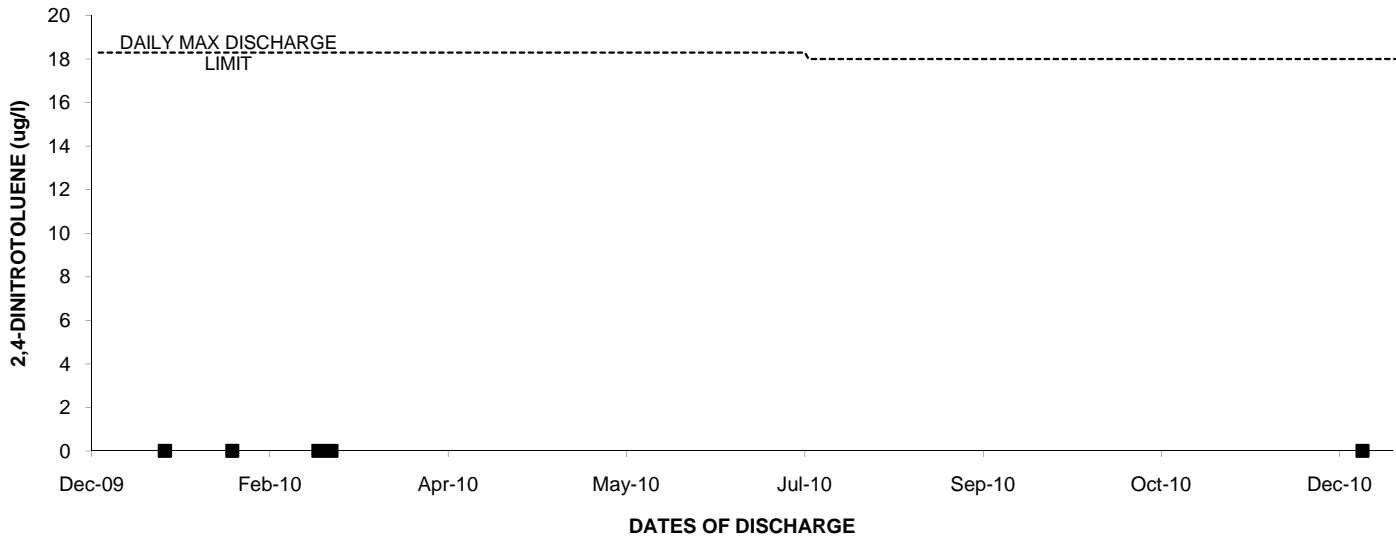
### 2010: Outfall 018 URANIUM, TOTAL



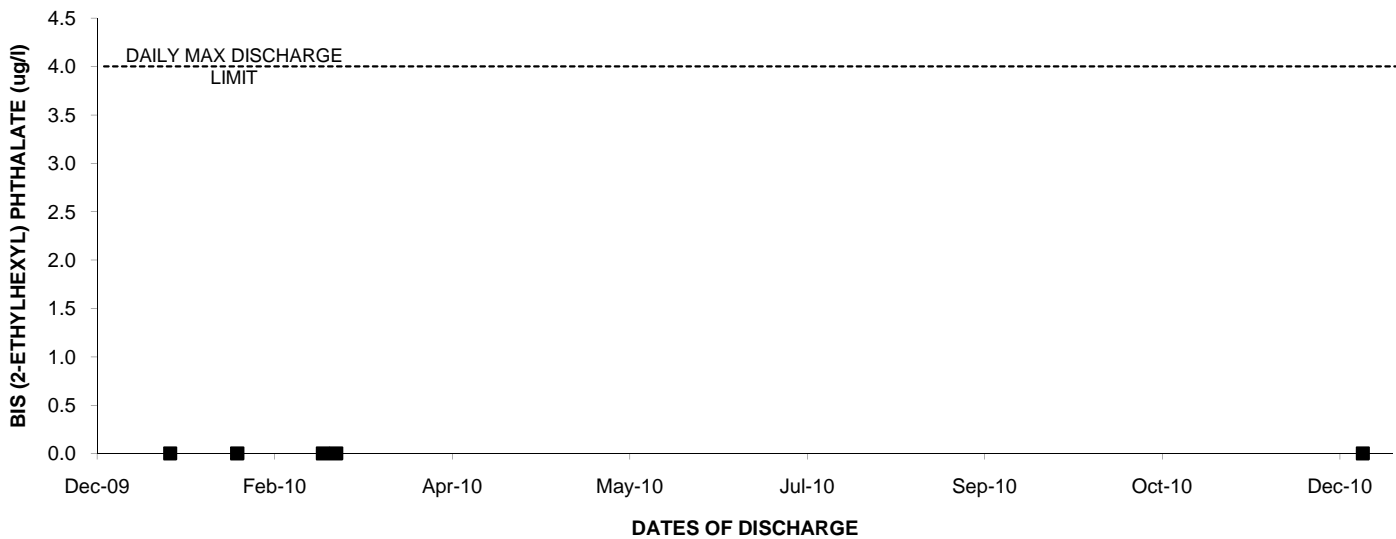
2010: Outfall 018 2,4,6-TRICHLOROPHENOL



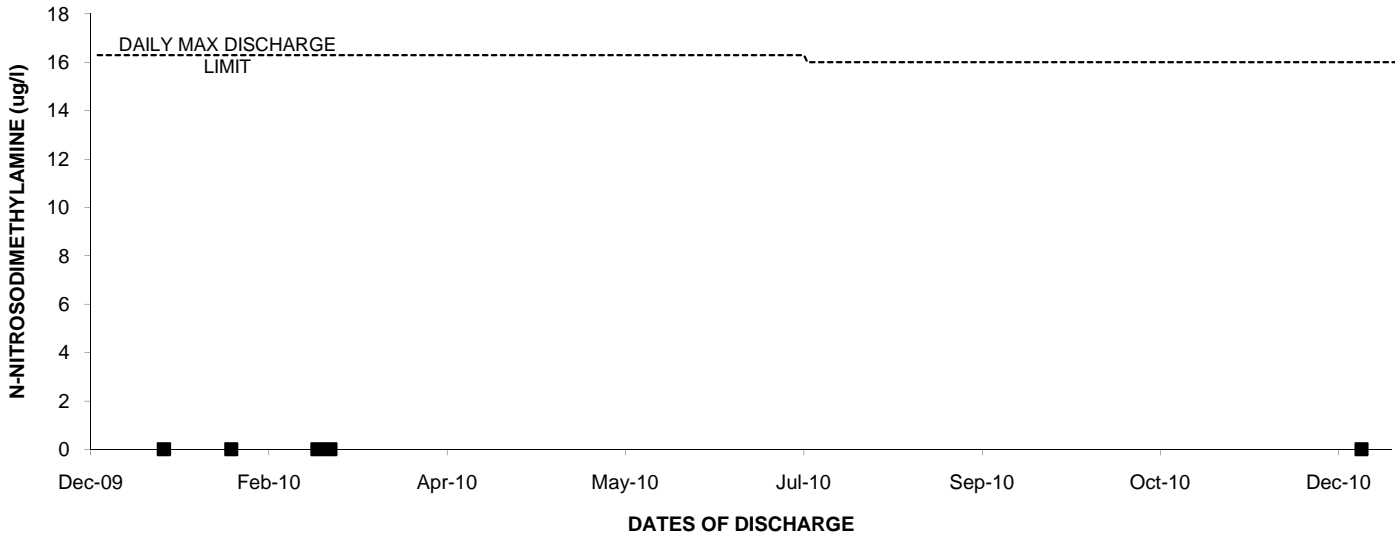
2010: Outfall 018 2,4-DINITROTOLUENE



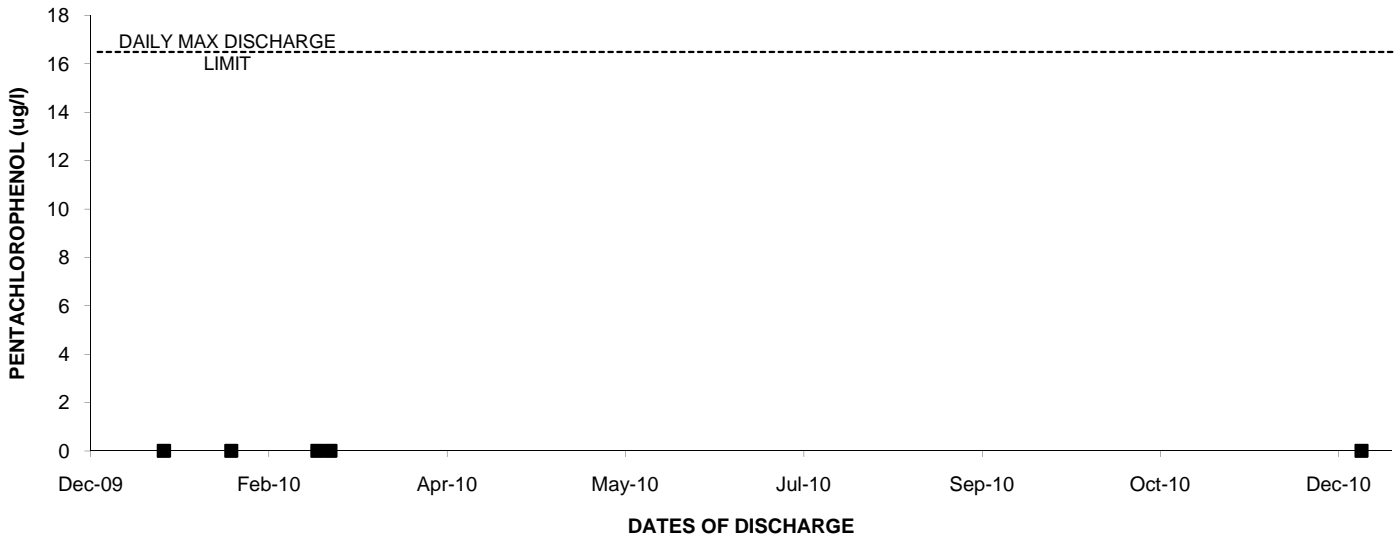
2010: Outfall 018 BIS (2-ETHYLHEXYL) PHTHALATE



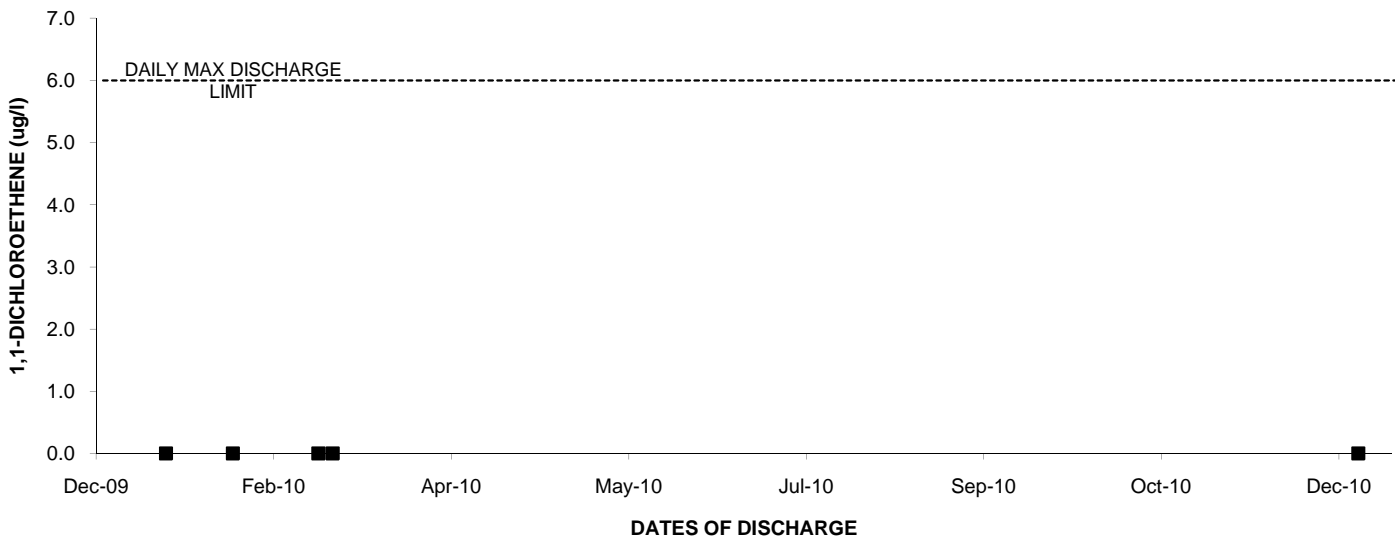
### 2010: Outfall 018 N-NITROSODIMETHYLAMINE



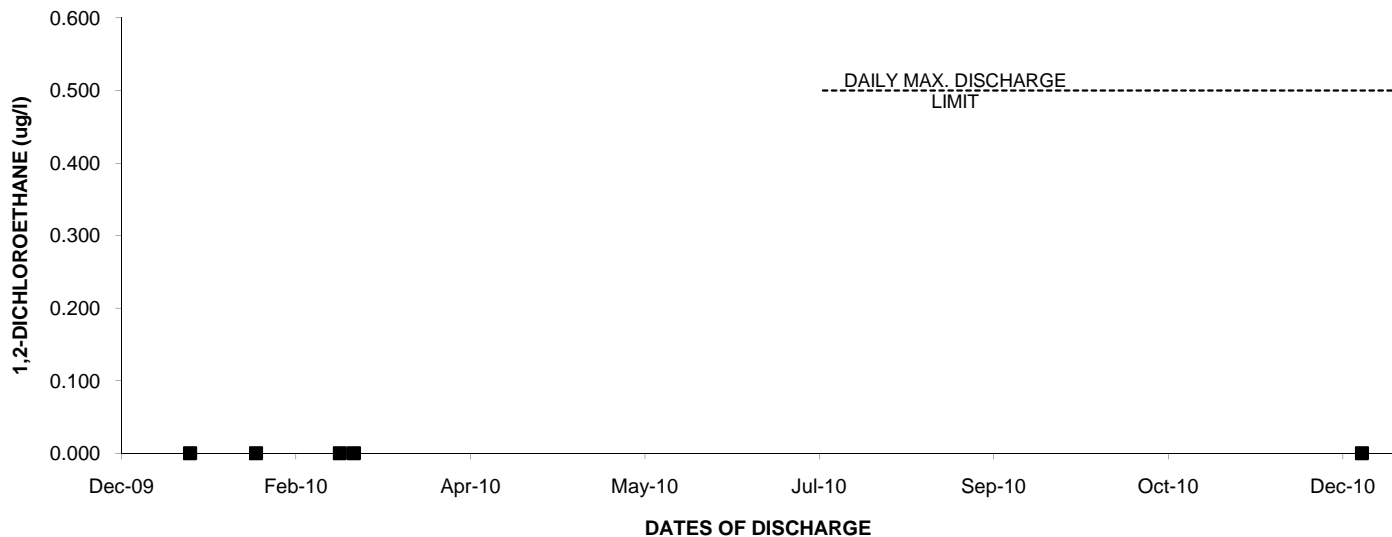
### 2010: Outfall 018 PENTACHLOROPHENOL



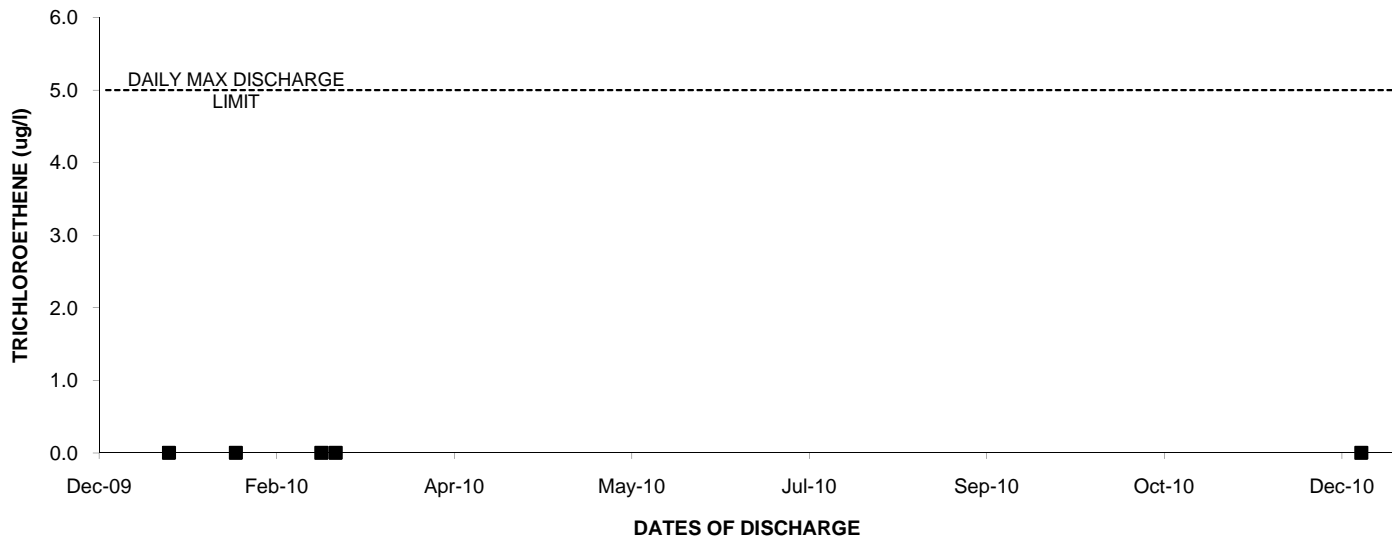
### 2010: Outfall 018 1,1-DICHLOROETHENE



**2010: Outfall 018 1,2-DICHLOROETHANE**



**2010: Outfall 018 TRICHLOROETHENE**



### 2010: Outfall 018 TCDD

