



**OUTFALL 012 (Alfa Test Stand)**

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

January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/5/2008		1/25/2008		
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER	
Selenium	ug/L	-/-	1.4	J (DNQ)	ND < 0.30	U	
Selenium, dissolved	ug/L	-/-	1.8	J (DNQ)	ND < 0.30	U	
Silver	ug/L	-/-	ANR	ANR	ANR	ANR	
Silver, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	
Thallium	ug/L	-/-	ANR	ANR	ANR	ANR	
Thallium, dissolved	ug/L	-/-	ANR	ANR	ANR	ANR	
Zinc	ug/L	159/-	56	--	44	--	
Zinc, dissolved	ug/L	-/-	47	--	21	J (I)	
<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	
1,4-Dioxane	ug/L	3/-	ND < 1.0	*	ND < 1.0	*	
Ethylbenzene	ug/L	-/-	ANR	ANR	ANR	ANR	
Tetrachloroethene	ug/L	-/-	ANR	ANR	ANR	ANR	
Toluene	ug/L	-/-	ANR	ANR	ANR	ANR	
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	
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ANR	ANR	ANR	ANR	
Vinyl chloride	ug/L	-/-	ANR	ANR	ANR	ANR	
<b>TPH</b>							
EFH (C13 - C22)	mg/L	0.1/-	ND < 0.096	*	ND < 0.094	*	
DRO (C13-C22)	mg/L	0.1/-	ANR	ANR	ANR	ANR	
GRO (C4 - C12)	mg/L	0.1/-	ND < 0.025	*	ND < 0.025	*	
<b>ADDITIONAL ANALYTE</b> 1,1,2-Trichloroethane			ug/L	f	ANR	ANR	ANR

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			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
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
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
Dibenzofuran	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
Diisopropyl ether	ug/L	-/-	ND < 0.25	U	ND < 0.25	U
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
Endrin ketone	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
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	ANR
Methoxychlor	ug/L	-/-	ANR	ANR	ANR	ANR
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	ANR
Methyl-tert-butyl ether	ug/L	-/-	ND < 0.32	U	ND < 0.32	U
m-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	ANR
Monomethyl Hydrazine	ug/L	-/-	ANR	ANR	ANR	ANR
Naphthalene	ug/L	21/-	ND < 2.9	U	ND < 3.0	U

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NPDES PERMIT CA0001309**

January 1 through December 31, 2008

ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	1/5/2008		1/25/2008	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	2/25/2008	
			RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/L	10.1/-	ND < 0.30	*
Biochemical Oxygen Demand (BOD 5 day)	mg/L	-/-	4.1	--
Chloride	mg/L	150/-	35	*
Fluoride	mg/L	1.6/-	0.28	*
Nitrate + Nitrite as Nitrogen (N)	mg/L	8.0/-	0.79	*
Nitrate as Nitrogen (N)	mg/L	8.0/-	0.79	*
Nitrite-N	mg/L	1.0/-	ND < 0.090	*
Oil & Grease	mg/L	15/-	1.9	J* (DNQ)
Perchlorate	ug/L	6.0/-	ND < 1.5	*
pH (Field)	pH units	6.5-8.5/-	8.0	*
Total Settleable Solids	ml/L	0.3/-	ND < 0.10	*
Sulfate	mg/L	300/-	9.0	*
Temperature	deg. F	86/-	50	*
Total Cyanide	ug/L	-/-	ND < 2.2	*
Total Dissolved Solids	mg/L	950/-	150	*
Hardness	mg/L	-/-	23	--
Hardness, dissolved	mg/L	-/-	23	--
Total Suspended Solids	mg/L	45/-	ND < 10	*
Turbidity	NTU	-/-	5.9	--
Volume Discharged	MGD	-/-	NR	*
<b>METALS</b>				
Antimony	ug/L	-/-	0.65	J (DNQ)
Antimony, dissolved	ug/L	-/-	0.76	J (DNQ)
Arsenic	ug/L	-/-	ND < 7.0	U
Arsenic, dissolved	ug/L	-/-	7.6	J (DNQ)
Beryllium	ug/L	-/-	ND < 0.90	U
Beryllium, dissolved	ug/L	-/-	ND < 0.90	U
Boron	mg/L	1.0/-	ND < 0.020	U
Boron, dissolved	mg/L	-/-	ND < 0.020	U
Cadmium	ug/L	3.1/-	ND < 2.0	UJ (B)
Cadmium, dissolved	ug/L	-/-	0.40	J (DNQ)
Calcium	mg/L	-/-	7.6	--
Calcium, Dissolved	mg/L	-/-	7.5	--
Chromium	ug/L	-/-	ND < 2.0	U
Chromium, dissolved	ug/L	-/-	ND < 2.0	U
Copper	ug/L	13.5/-	2.0	J (DNQ)
Copper, dissolved	ug/L	-/-	1.5	J (DNQ)
Lead	ug/L	5.2/-	ND < 0.60	U
Lead, dissolved	ug/L	-/-	ND < 0.30	U
Magnesium	mg/L	-/-	0.96	--
Magnesium, Dissolved	mg/L	-/-	1.0	--
Mercury	ug/L	0.10/-	ND < 0.050	U
Mercury, dissolved	ug/L	-/-	ND < 0.050	U
Nickel	ug/L	-/-	ND < 2.0	U
Nickel, dissolved	ug/L	-/-	ND < 2.0	U

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ANALYTE	UNITS	Benchmark Limit Daily Max/Monthly Avg	2/25/2008	
			RESULT	VALIDATION QUALIFIER
Selenium	ug/L	-/-	ND < 0.60	U
Selenium, dissolved	ug/L	-/-	ND < 2.0	UJ (B)
Silver	ug/L	-/-	ND < 0.60	U
Silver, dissolved	ug/L	-/-	ND < 0.30	U
Thallium	ug/L	-/-	ND < 0.40	U
Thallium, dissolved	ug/L	-/-	ND < 0.20	U
Zinc	ug/L	159/-	ND < 40	UJ (B)
Zinc, dissolved	ug/L	-/-	30	--
<b>ORGANICS</b>				
Benzene	ug/L	-/-	ND < 0.28	U
Carbon Tetrachloride	ug/L	-/-	ND < 0.28	U
Chloroform	ug/L	-/-	ND < 0.33	U
1,1-Dichloroethane	ug/L	-/-	ND < 0.27	U
1,2-Dichloroethane	ug/L	-/-	ND < 0.28	U
1,1-Dichloroethene	ug/L	-/-	ND < 0.42	U
1,4-Dioxane	ug/L	3/-	ND < 1.0	*
Ethylbenzene	ug/L	-/-	ND < 0.25	U
Tetrachloroethene	ug/L	-/-	ND < 0.32	U
Toluene	ug/L	-/-	ND < 0.36	U
Xylenes (Total)	ug/L	-/-	ND < 0.90	U
1,1,1-Trichloroethane	ug/L	-/-	ND < 0.30	U
1,1,2-Trichloroethane	ug/L	-/-	ND < 0.30	U
Trichloroethene	ug/L	-/-	1.4	--
Trichlorofluoromethane	ug/L	-/-	ND < 0.34	U
Trichlorotrifluoroethane (Freon 113)	ug/L	-/-	ND < 0.50	U
Vinyl chloride	ug/L	-/-	ND < 0.30	U
<b>TPH</b>				
EFH (C13 - C22)	mg/L	0.1/-	ANR	ANR
DRO (C13-C22)	mg/L	0.1/-	0.061	J* (DNQ)
GRO (C4 - C12)	mg/L	0.1/-	ND < 0.030	*
<b>ADDITIONAL ANALYTES</b>				
2,4,5-Trichlorophenol	ug/L	-/-	ND < 2.9	*
1,1,2,2-Tetrachloroethane	ug/L	-/-	ND < 0.24	U
1,2,4-Trichlorobenzene	ug/L	-/-	ND < 2.4	*
1,2,3-Trichloropropane	ug/L	-/-	ND < 0.40	U
1,2-Dibromoethane (EDB)	ug/L	50/-	ND < 0.40	U
1,2-Dichlorobenzene	ug/L	-/-	ND < 2.9	*
1,2-Dichlorobenzene	ug/L	-/-	ND < 0.32	U
1,2-Dichloropropane	ug/L	-/-	ND < 0.35	U
1,2-Diphenylhydrazine/Azobenzene	ug/L	-/-	ND < 2.4	*
1,3-Dichlorobenzene	ug/L	-/-	ND < 0.35	U
1,3-Dichlorobenzene	ug/L	-/-	ND < 2.9	*
1,4-Dichlorobenzene	ug/L	-/-	ND < 0.37	U
1,4-Dichlorobenzene	ug/L	-/-	ND < 2.4	*
2,4,6-Trichlorophenol	ug/L	-/-	ND < 4.3	*
2,4-Dichlorophenol	ug/L	-/-	ND < 3.3	*





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<b>ANALYTE</b>	<b>UNITS</b>	<b>Benchmark Limit Daily Max/Monthly Avg</b>
bis (2-ethylhexyl) Phthalate	ug/L	-/-
bis(2-Chloroethoxy) methane	ug/L	-/-
bis(2-Chloroisopropyl) ether	ug/L	-/-
Bromodichloromethane	ug/L	-/-
Bromoform	ug/L	-/-
Bromomethane	ug/L	-/-
Butylbenzylphthalate	ug/L	-/-
Chlordane	ug/L	-/-
Chlorobenzene	ug/L	-/-
Chloroethane	ug/L	-/-
Chloromethane	ug/L	-/-
Chrysene	ug/L	-/-
cis-1,3-Dichloropropene	ug/L	-/-
delta-BHC	ug/L	-/-
Dibenzo(a,h)anthracene	ug/L	-/-
Dibenzofuran	ug/L	-/-
Dibromochloromethane	ug/L	-/-
Dieldrin	ug/L	-/-
Diethylphthalate	ug/L	-/-
Diisopropyl ether	ug/L	-/-
Dimethylphthalate	ug/L	-/-
Di-n-butylphthalate	ug/L	-/-

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Nitrobenzene	ug/L	-/-	ND < 2.4	*
n-Nitrosodimethylamine	ug/L	-/-	ND < 2.4	*
n-Nitroso-di-n-propylamine	ug/L	-/-	ND < 3.3	*
n-Nitrosodiphenylamine	ug/L	-/-	ND < 1.9	*
o-Nitroaniline	ug/L	-/-	ND < 1.9	*
p-Cresol	ug/L	-/-	ND < 2.9	*
Pentachlorophenol	ug/L	-/-	ND < 3.3	*
Phenanthrene	ug/L	-/-	ND < 3.3	*
Phenol	ug/L	-/-	ND < 1.9	*
p-Nitroaniline	ug/L	-/-	ND < 3.8	*
Pyrene	ug/L	-/-	ND < 3.8	*
tertiary Butyl Alcohol	ug/L	12/-	ND < 4.9	U
Toxaphene	ug/L	-/-	ND < 0.066	*
trans-1,2-Dichloroethene	ug/L	-/-	ND < 0.27	U
trans-1,3-Dichloropropene	ug/L	-/-	ND < 0.32	U

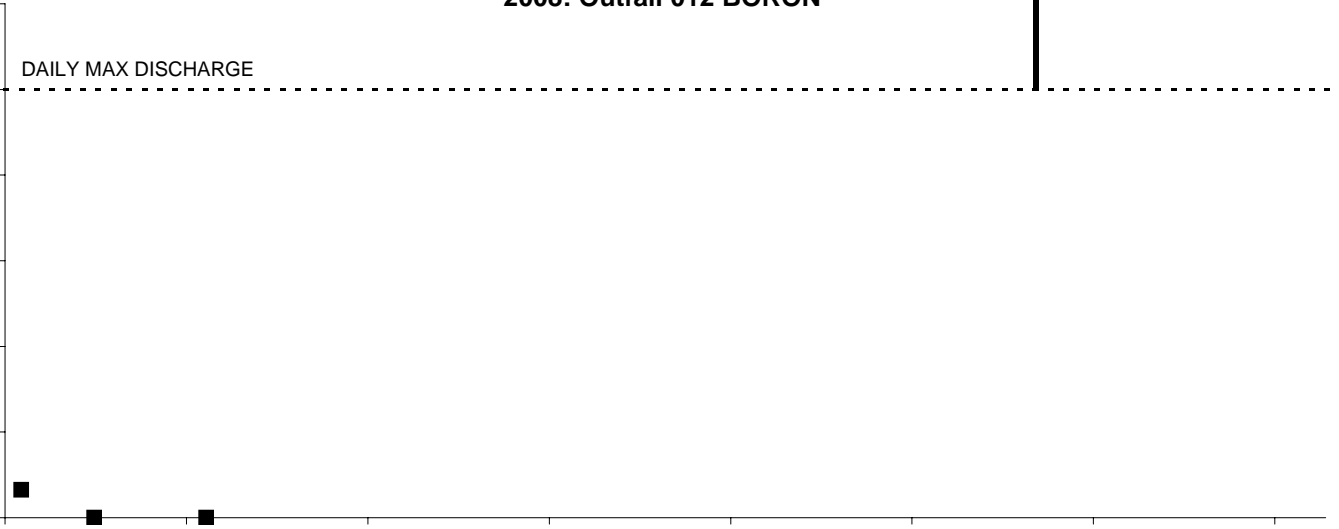




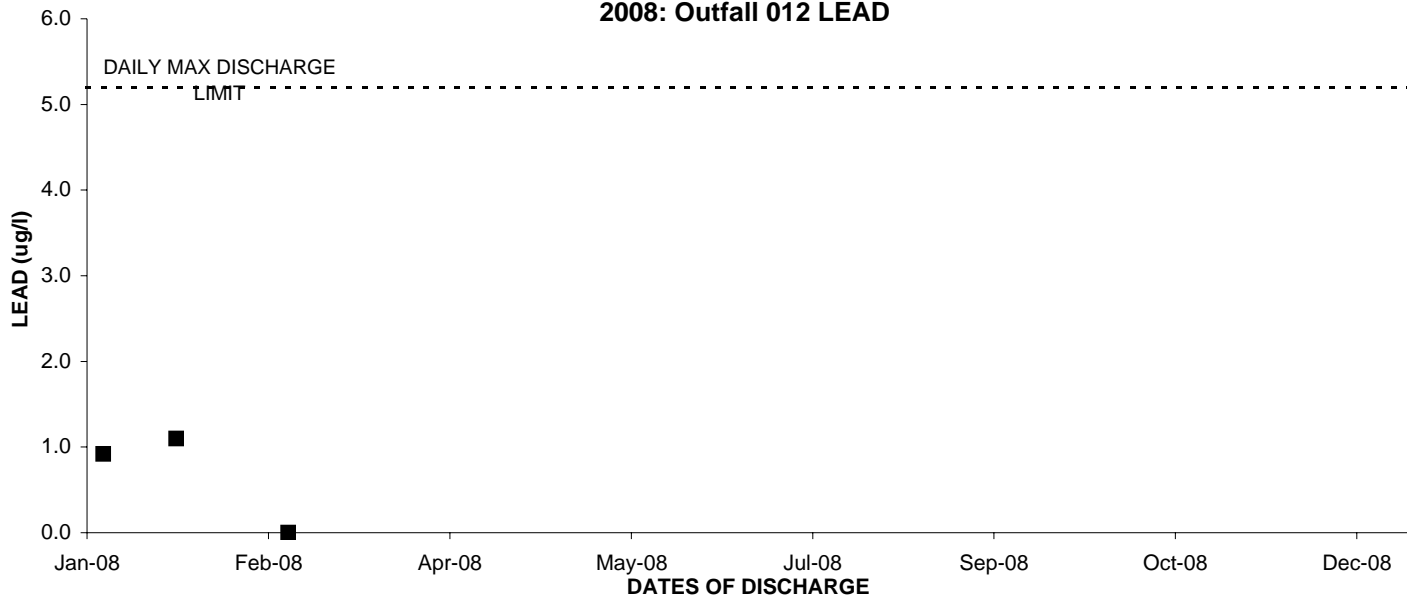


2008: Outfall 012 BORON

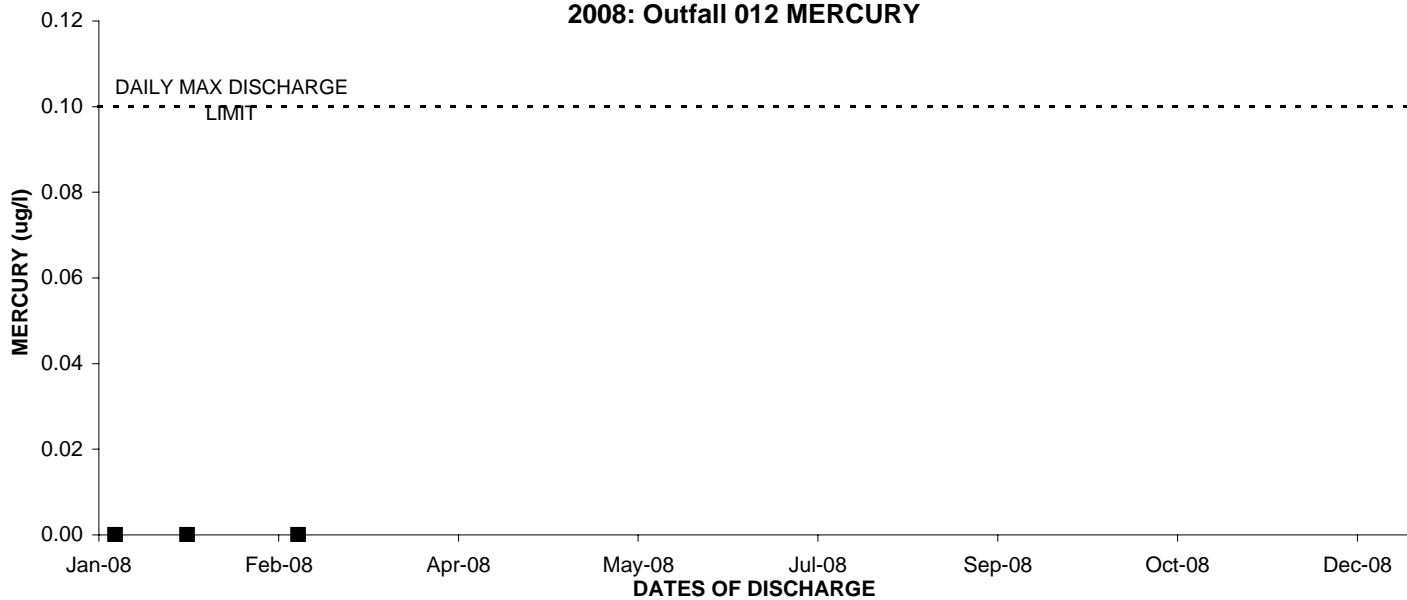
DAILY MAX DISCHARGE



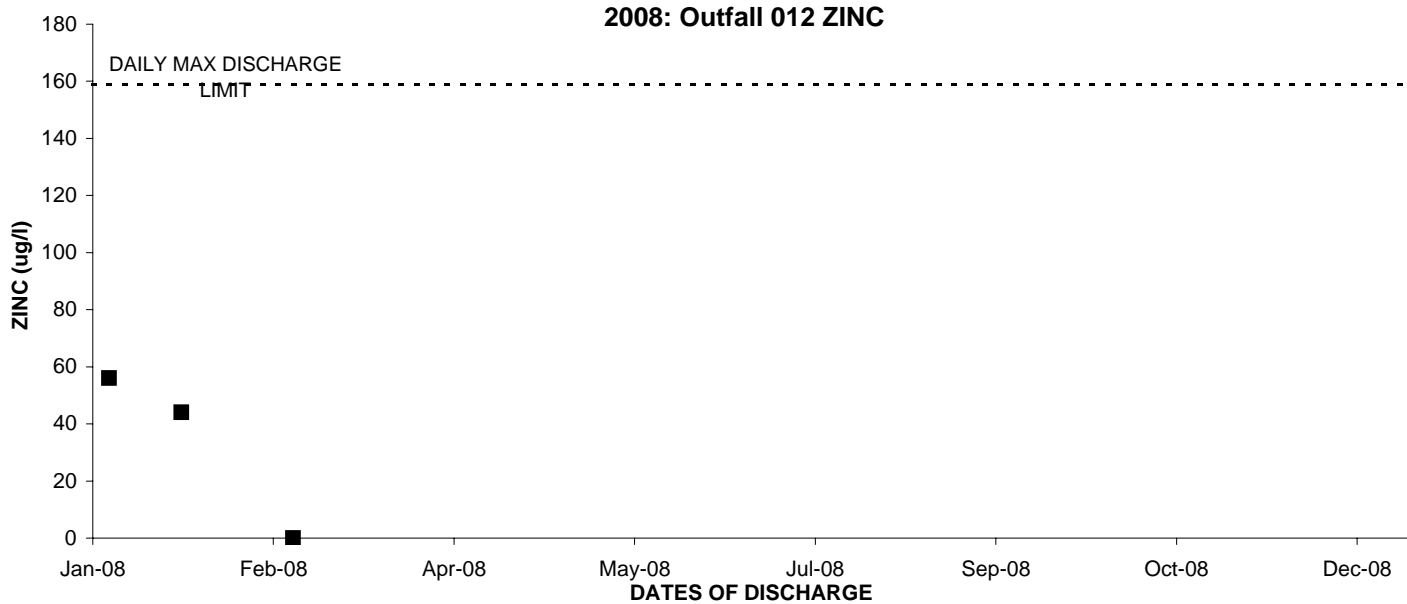
### 2008: Outfall 012 LEAD



### 2008: Outfall 012 MERCURY



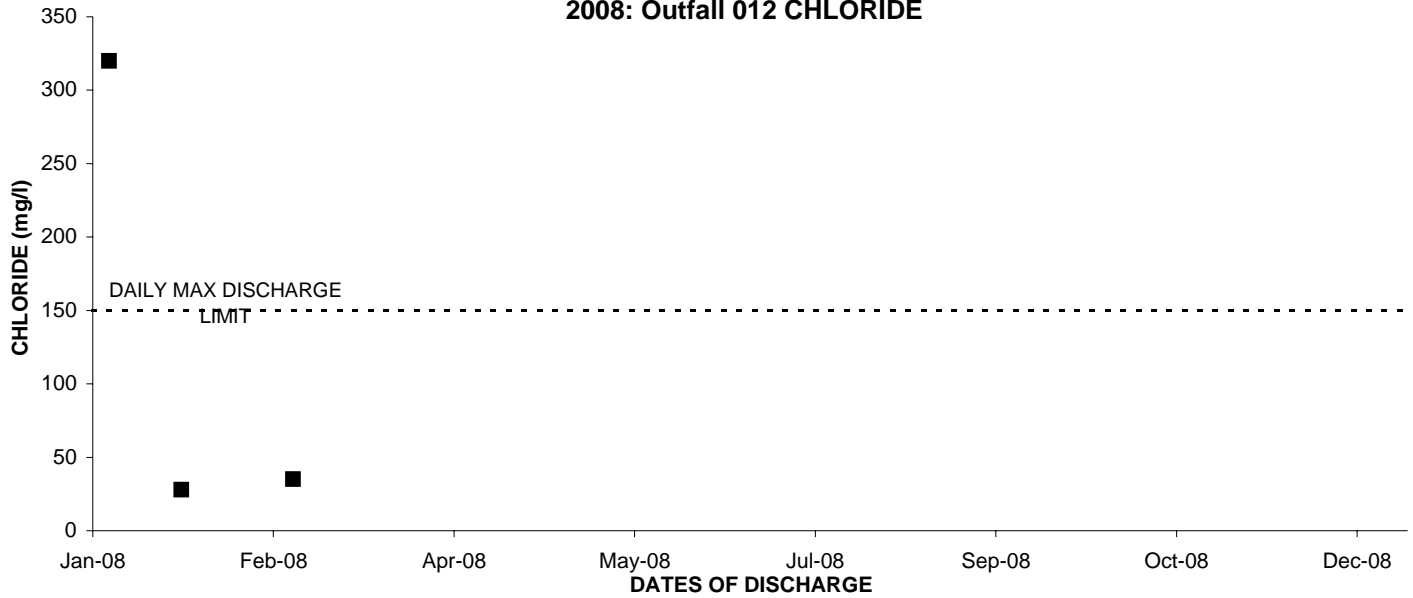
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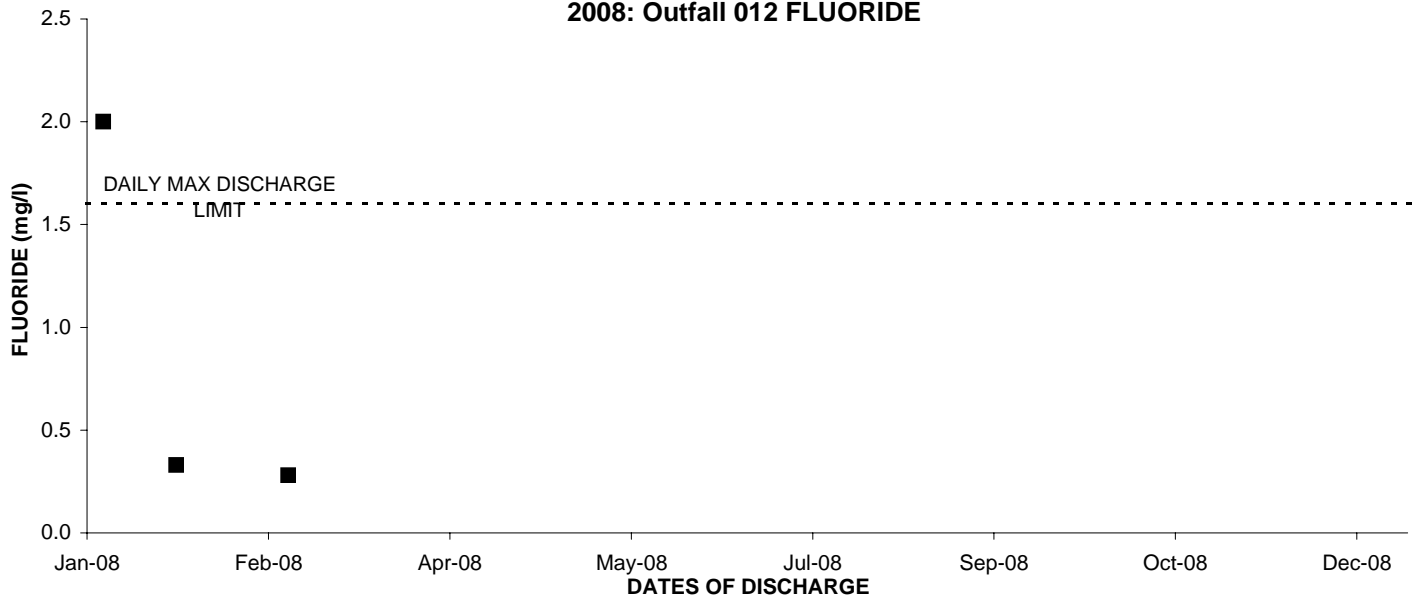




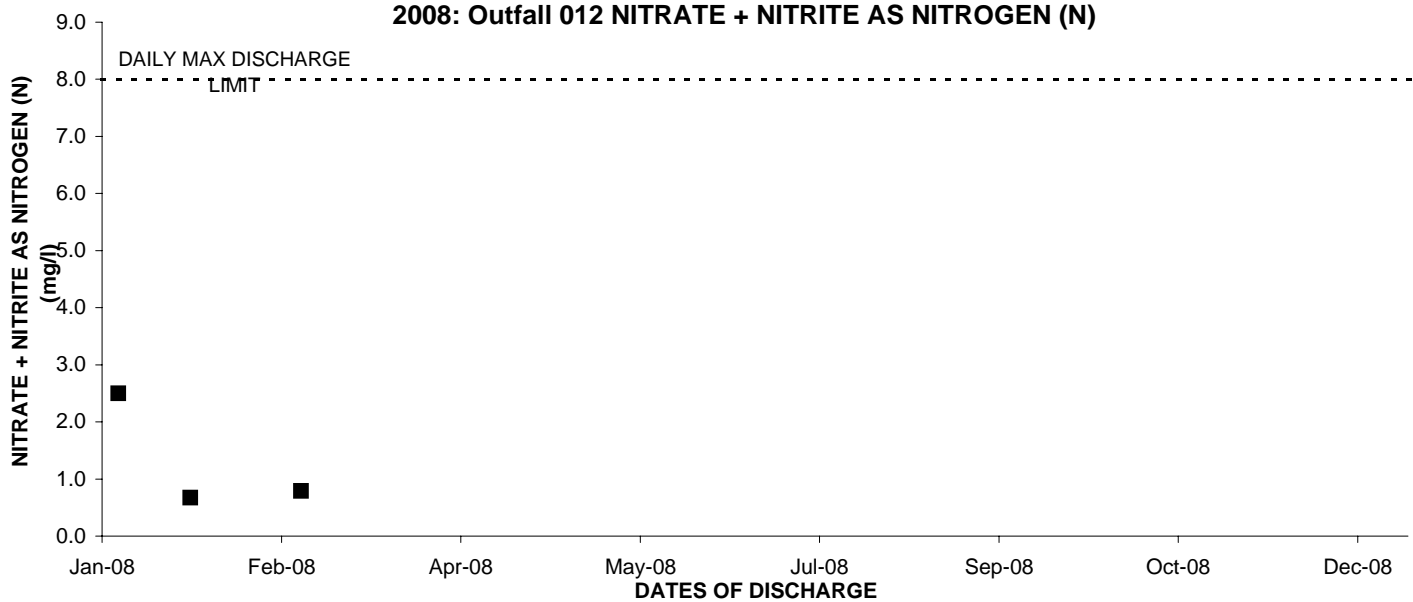
### 2008: Outfall 012 CHLORIDE



### 2008: Outfall 012 FLUORIDE



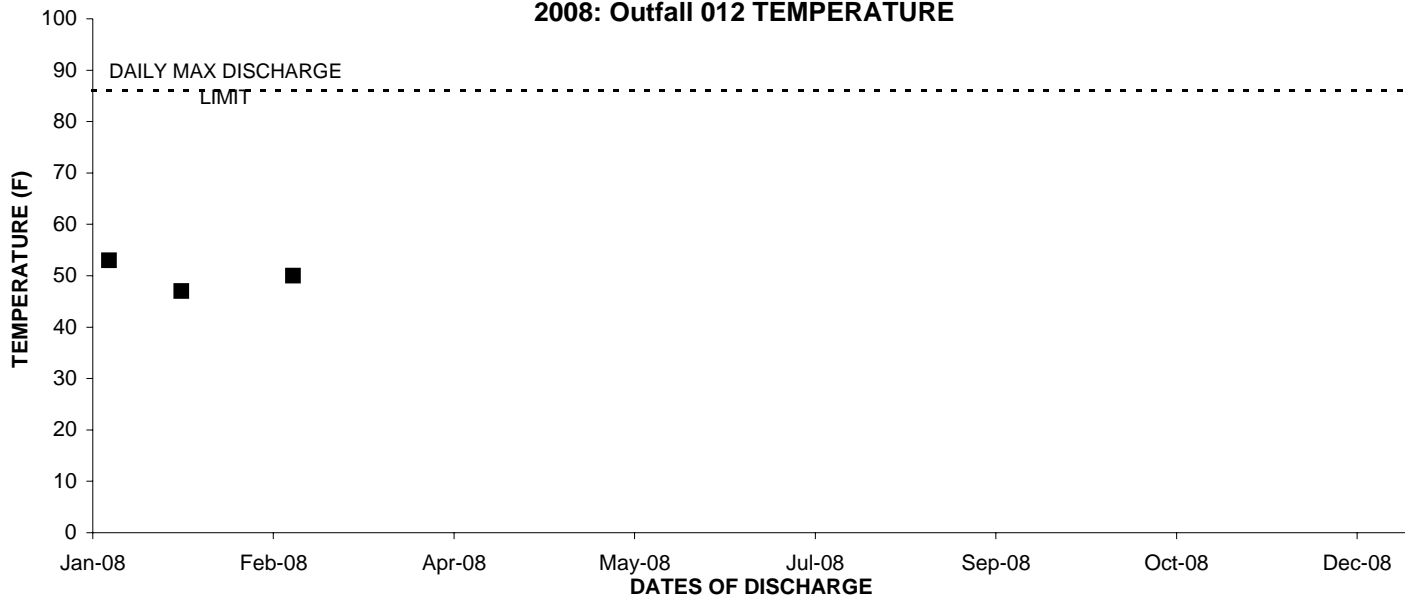
### 2008: Outfall 012 NITRATE + NITRITE AS NITROGEN (N)



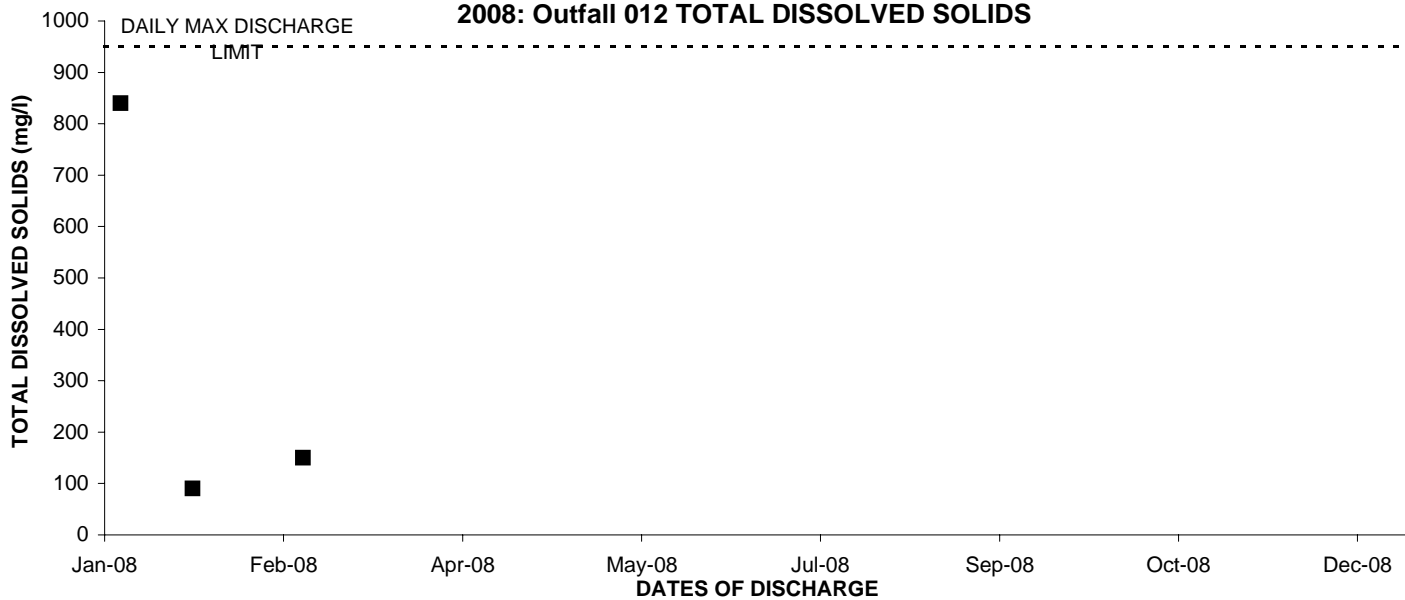




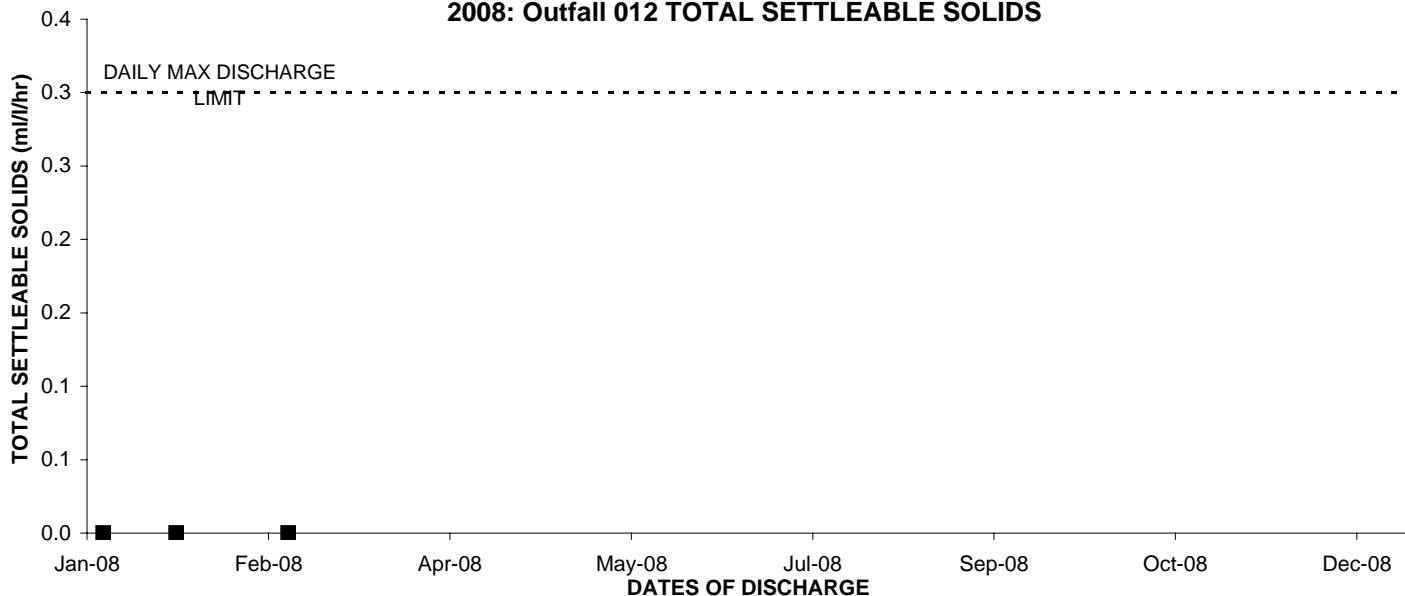
### 2008: Outfall 012 TEMPERATURE



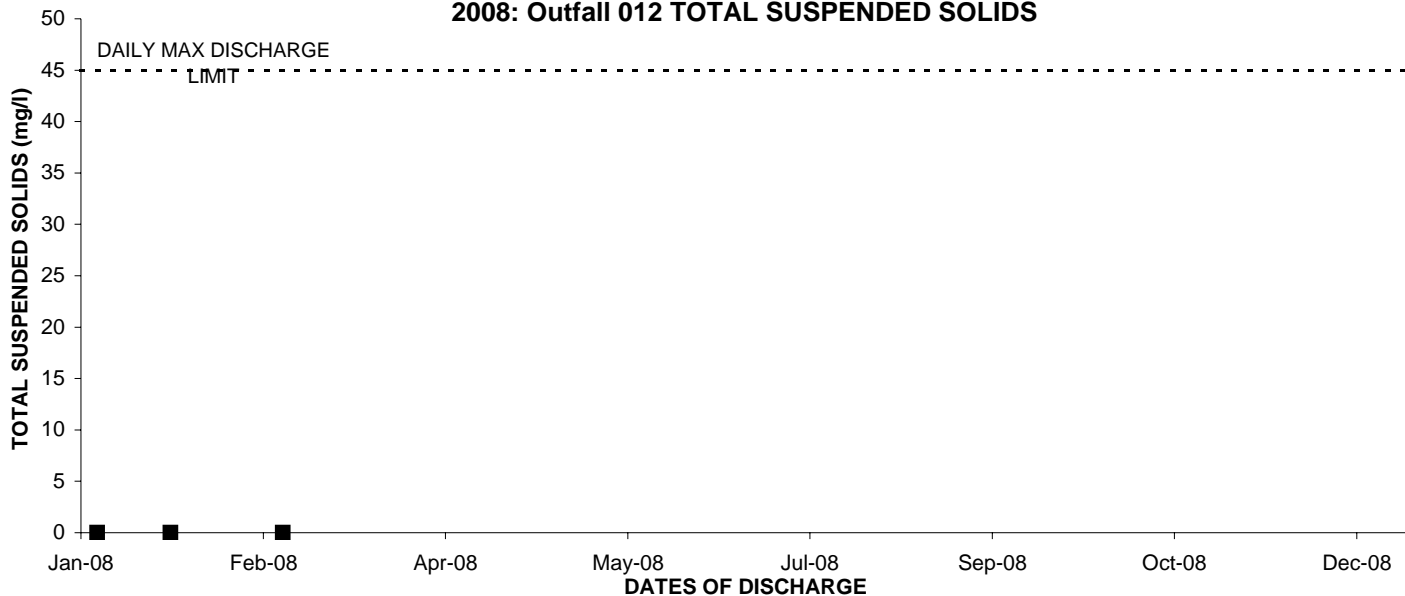
### 2008: Outfall 012 TOTAL DISSOLVED SOLIDS



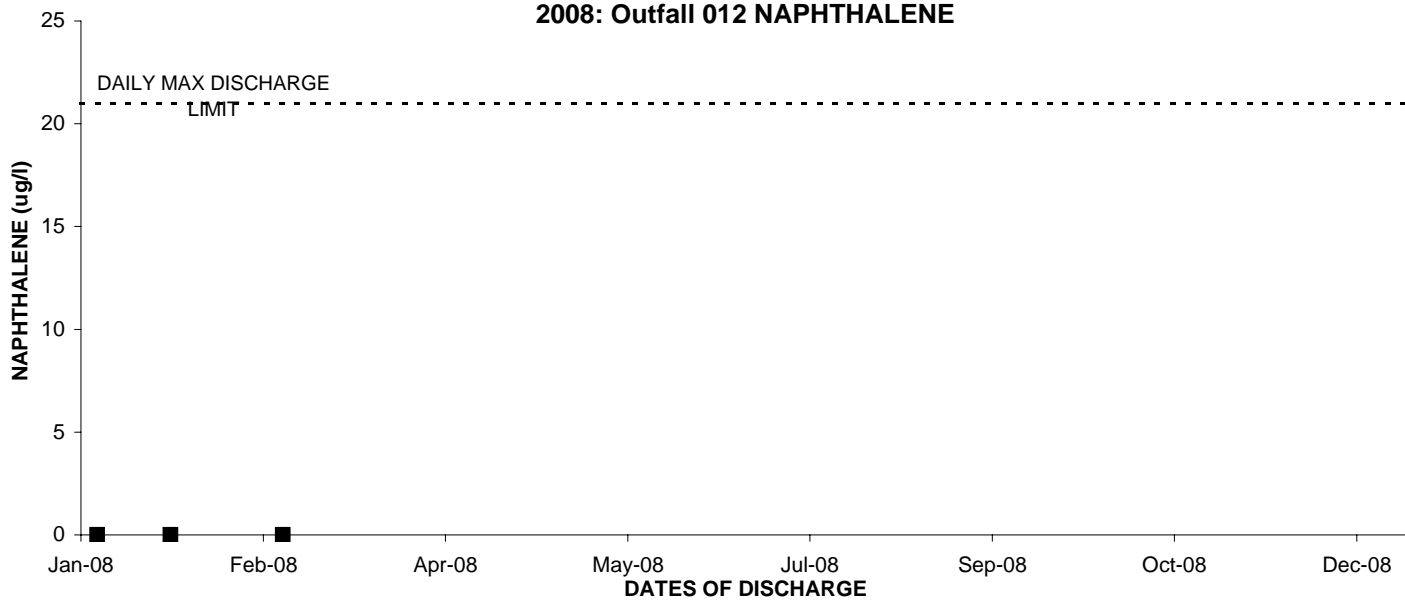
### 2008: Outfall 012 TOTAL SETTLEABLE SOLIDS



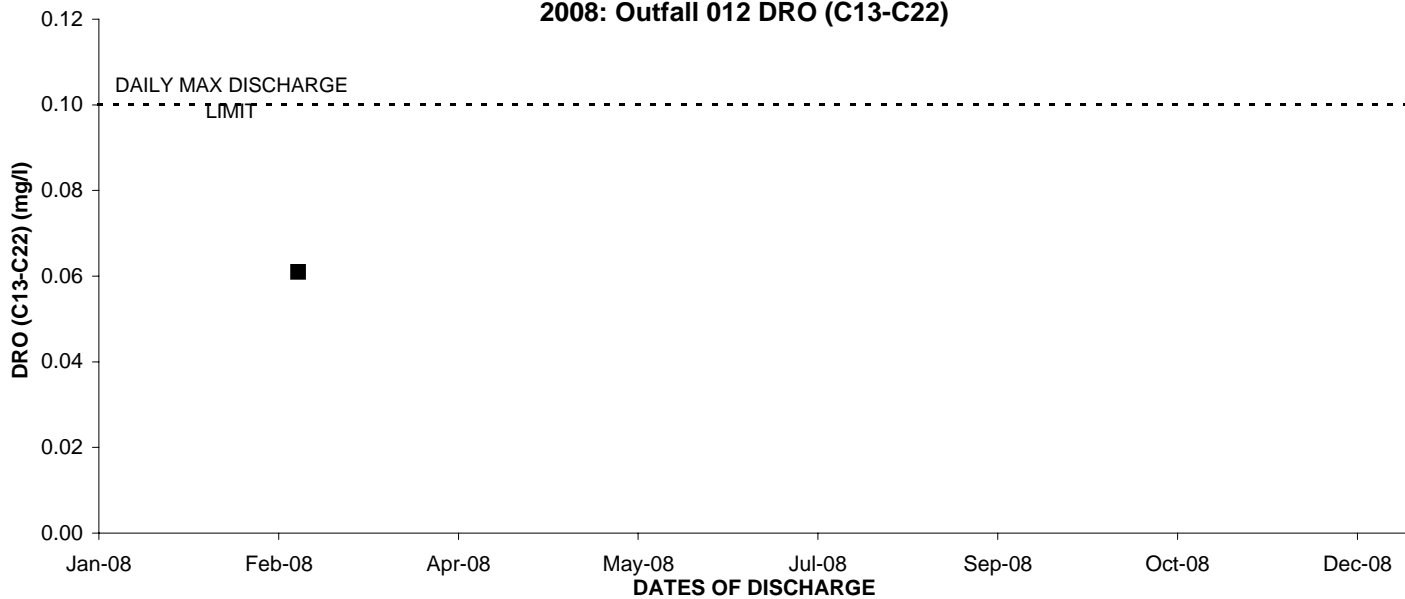
### 2008: Outfall 012 TOTAL SUSPENDED SOLIDS



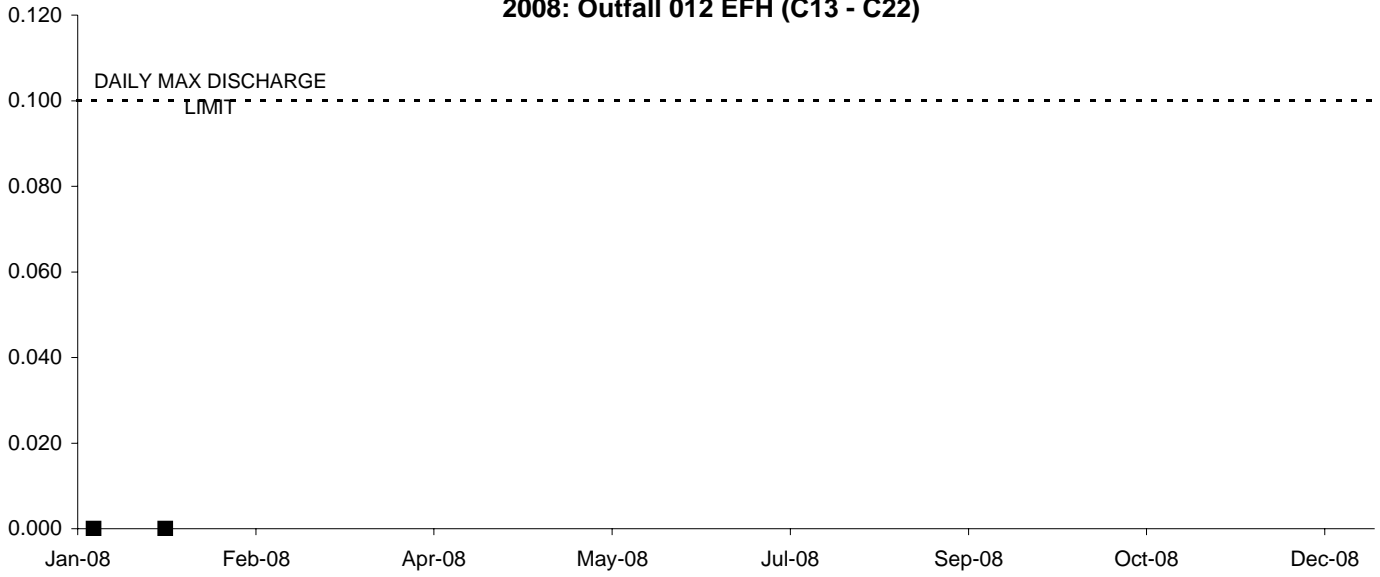
### 2008: Outfall 012 NAPHTHALENE



### 2008: Outfall 012 DRO (C13-C22)



2008: Outfall 012 EFH (C13 - C22)



2008: Outfall 012 TERTIARY BUTYL ALCOHOL

