

## OUTFALL 007 (Building 100)

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

January 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2008	
			RESULT	VALIDATION QUALIFIER
Chloride	mg/L	150/-	13	*
Fluoride	mg/L	1.6/-	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	mg/L	10/-	ND < 0.15	*
Oil & Grease	mg/L	15/-	ND < 1.3	*
Perchlorate	ug/L	6.0/-	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	7.3	*
Sulfate	mg/L	250/-	15	*
Temperature	deg. F	86/-	46	*
Total Cyanide	ug/L	-/-	ANR	ANR
Total Dissolved Solids	mg/L	850/-	160	*
Total Suspended Solids	mg/L	-/-	ANR	ANR
Volume Discharged	MGD	17.8/-	0.25	ANR
<b>METALS</b>				
Aluminum	ug/L	-/-	ANR	ANR
Antimony	ug/L	6.0/-	2.1	--
Antimony, dissolved	ug/L	-/-	2.3	--
Arsenic	ug/L	-/-	ANR	ANR
Beryllium	ug/L	-/-	ANR	ANR
Boron	mg/L	1.0/-	ANR	ANR
Cadmium	ug/L	4.0/-	0.12	J (DNQ)
Cadmium, dissolved	ug/L	-/-	ND < 0.11	U
Chromium	ug/L	-/-	ANR	ANR
Copper	ug/L	14.0/-	2.0	--
Copper, dissolved	ug/L	-/-	ND < 0.75	U
Lead	ug/L	5.2/-	2.3	--
Lead, dissolved	ug/L	-/-	ND < 0.30	U
Mercury	ug/L	0.13/-	ND < 0.050	U
Mercury, dissolved	ug/L	-/-	ND < 0.050	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	U
Thallium, dissolved	ug/L	-/-	ND < 0.20	U
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

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			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

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2008	
			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,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	-/-	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

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ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2008	
			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 007 (Building 100)**

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

Sample Date January 25, 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	1.06E-05	J (DNQ)	0.01	1.06E-07	ND
1,2,3,4,6,7,8-HpCDF	2.88E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8,9-HpCDF	1.02E-06	2.50E-05	ND	U	0.01	ND	ND
1,2,3,4,7,8-HxCDD	2.41E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,4,7,8-HxCDF	7.09E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDD	2.49E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,6,7,8-HxCDF	7.93E-07	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDD	2.35E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8,9-HxCDF	1.15E-06	2.50E-05	ND	U	0.1	ND	ND
1,2,3,7,8-PeCDD	8.99E-07	2.50E-05	ND	U	1	ND	ND
1,2,3,7,8-PeCDF	1.03E-06	2.50E-05	ND	U	0.05	ND	ND
2,3,4,6,7,8-HxCDF	9.49E-07	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	1.15E-06	5.00E-06	ND	U	1	ND	ND
2,3,7,8-TCDF	9.58E-07	5.00E-06	ND	U	0.1	ND	ND
OCDD	0.00E+00	5.00E-05	1.26E-04	--	0.0001	1.26E-08	1.26E-08
OCDF	0.00E+00	5.00E-05	8.49E-06	J (DNQ)	0.0001	8.49E-10	ND

<b>TCDD TEQ w/ DNQ Values</b>	<b>1.19E-07</b>	
<b>TCDD TEQ w/out DNQ Values</b>		<b>1.26E-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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NPDES PERMIT CA0001309**

January 1 through December 31, 2008

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2008		
			RESULT	MDA	VALIDATION QUALIFIER
<b>RADIOACTIVITY</b>					
Gross Alpha	pCi/L	15/-	1.37 ± 0.98	1.4	UJ (R)
Gross Beta	pCi/L	50/-	10.9 ± 0.87	0.94	--
Strontium-90	pCi/L	8.0/-	0.026 ± 0.39	0.91	UJ (H)
Total Combined Radium-226 & Radium 228	pCi/L	5.0/-	0.360 ± 0.533	1.42	UJ (H)
Tritium	pCi/L	20000/-	-16.1 ± 93	160	U
Cs-137 (G)	pCi/L	----	ND < 1.8	1.8	UJ (H)
K-40 (G)	pCi/L	----	ND < 47	47	UJ (H)
Uranium, Total	pCi/L	20/-	0.140 ± 0.018	0.022	J (H)

**OUTFALL 007 (Building 100)**

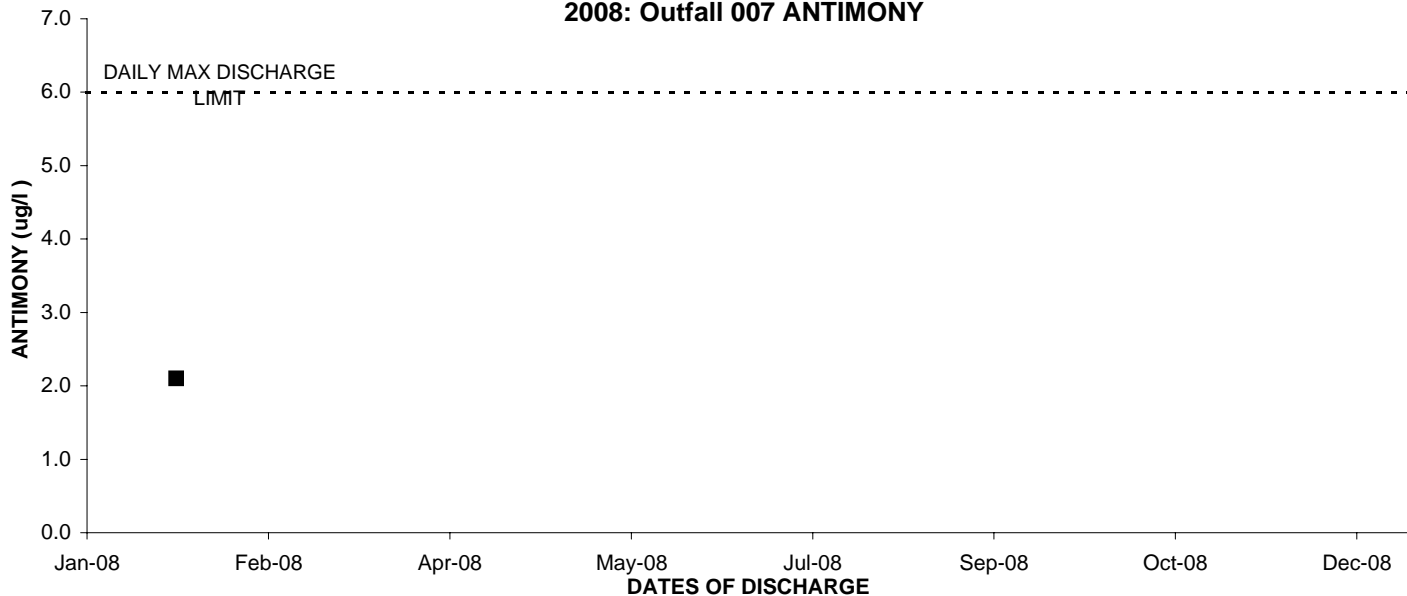
**ANNUAL 2008 REPORTING SUMMARY  
THE BOEING COMPANY  
SANTA SUSANA FIELD LABORATORY  
NPDES PERMIT CA0001309**

**January 1 through December 31, 2008**

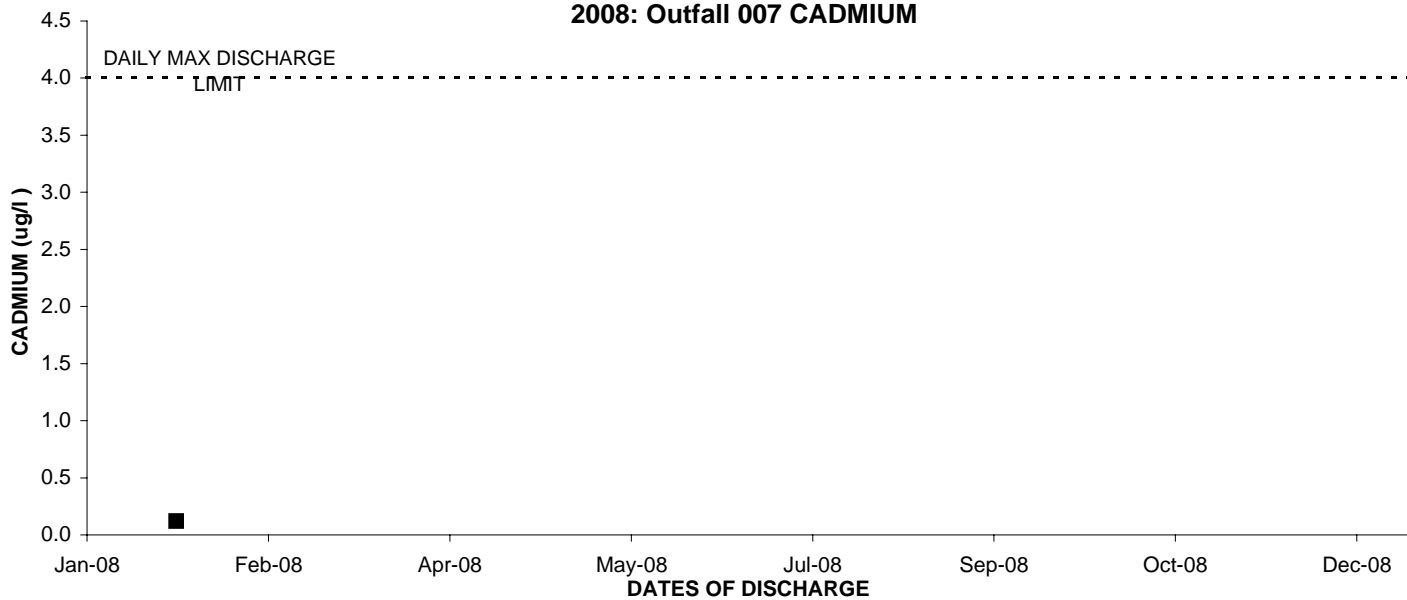
ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/25/2008	
			Result	CONCENTRATION RESULT VALIDATION QUALIFIER
Chloride	LBS/DAY	22,268/-	1929.88	*
Fluoride	LBS/DAY	238/-	ANR	ANR
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	ND	*
Oil & Grease	LBS/DAY	2,227/-	ND	*
Perchlorate	LBS/DAY	0.89/-	ANR	ANR
Sulfate	LBS/DAY	37,113/-	2226.78	*
Total Dissolved Solids	LBS/DAY	126,184/-	23,752.32	*
Antimony	LBS/DAY	0.89/-	0.31	--
Boron	LBS/DAY	148/-	ANR	ANR
Cadmium	LBS/DAY	0.59/-	0.02	J (DNQ)
Copper	LBS/DAY	2.08/-	0.30	--
Lead	LBS/DAY	0.77/-	0.34	--
Mercury	LBS/DAY	0.02/-	ND	U
Nickel	LBS/DAY	14.9/-	ANR	ANR
Thallium	LBS/DAY	0.3/-	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	4.2E-09/-	1.87E-09	--

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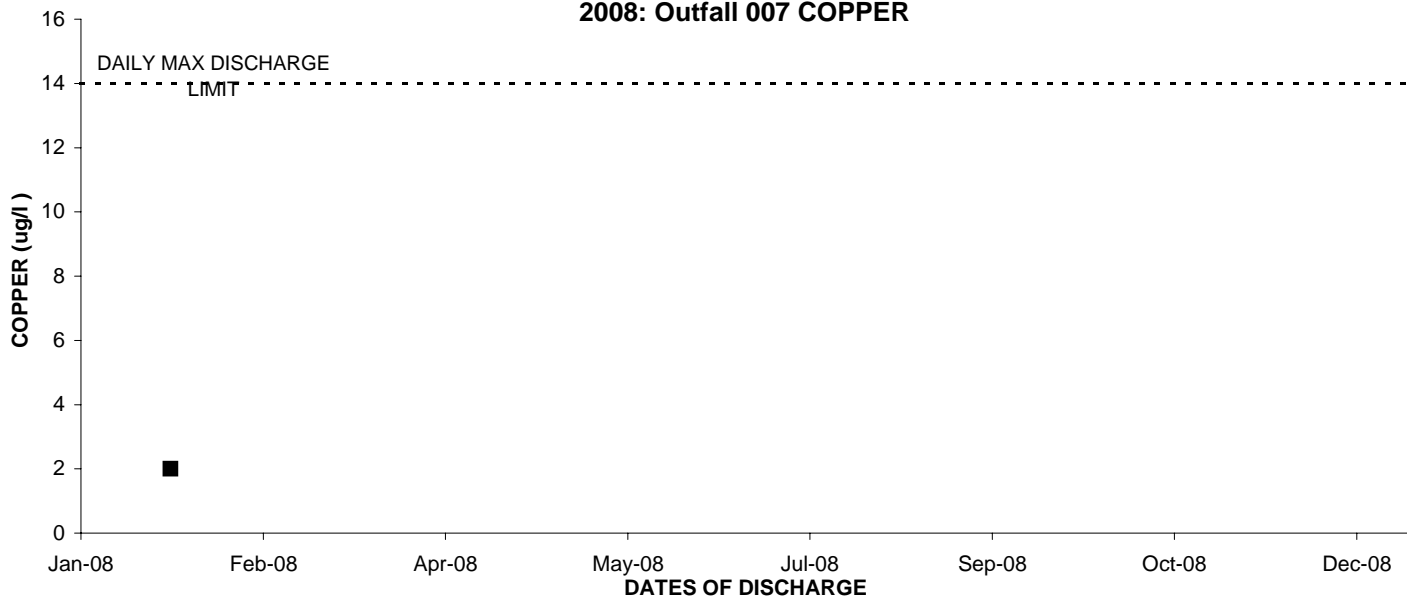
### 2008: Outfall 007 ANTIMONY



### 2008: Outfall 007 CADMIUM

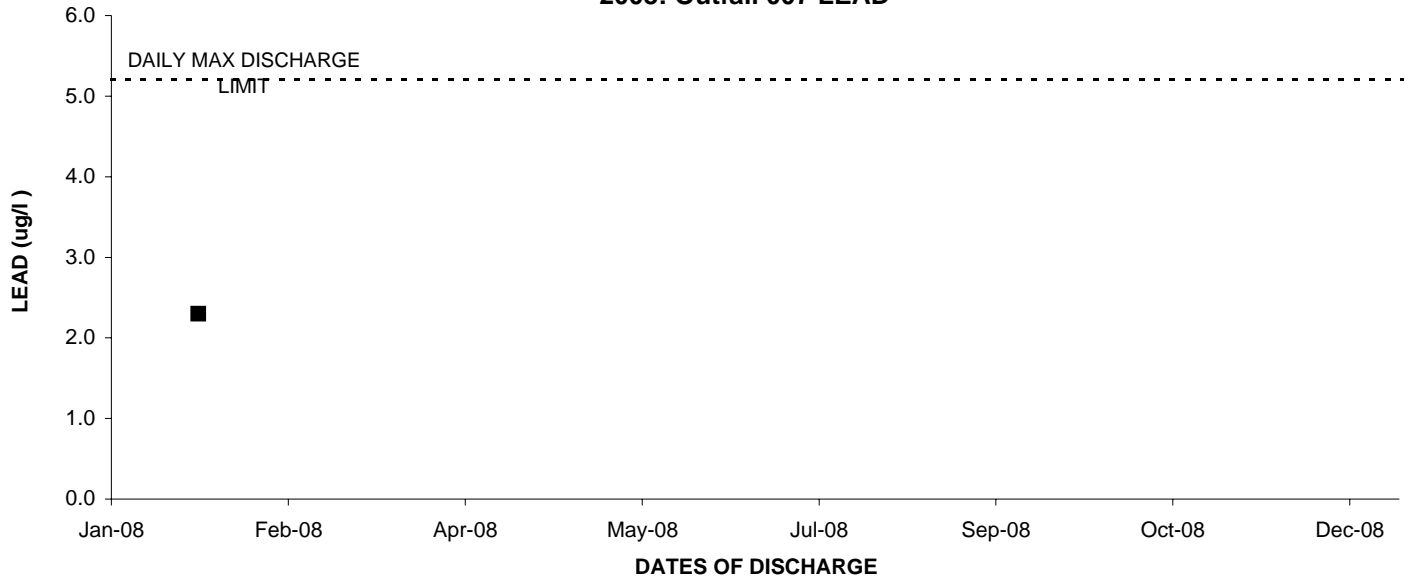


### 2008: Outfall 007 COPPER

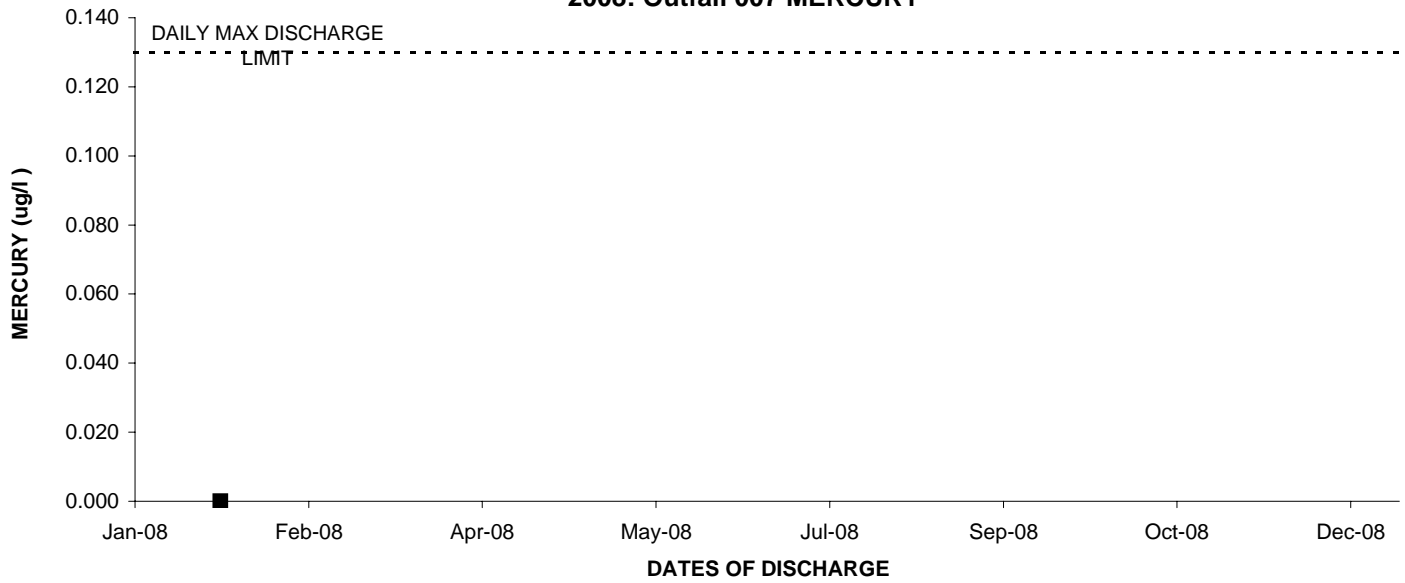




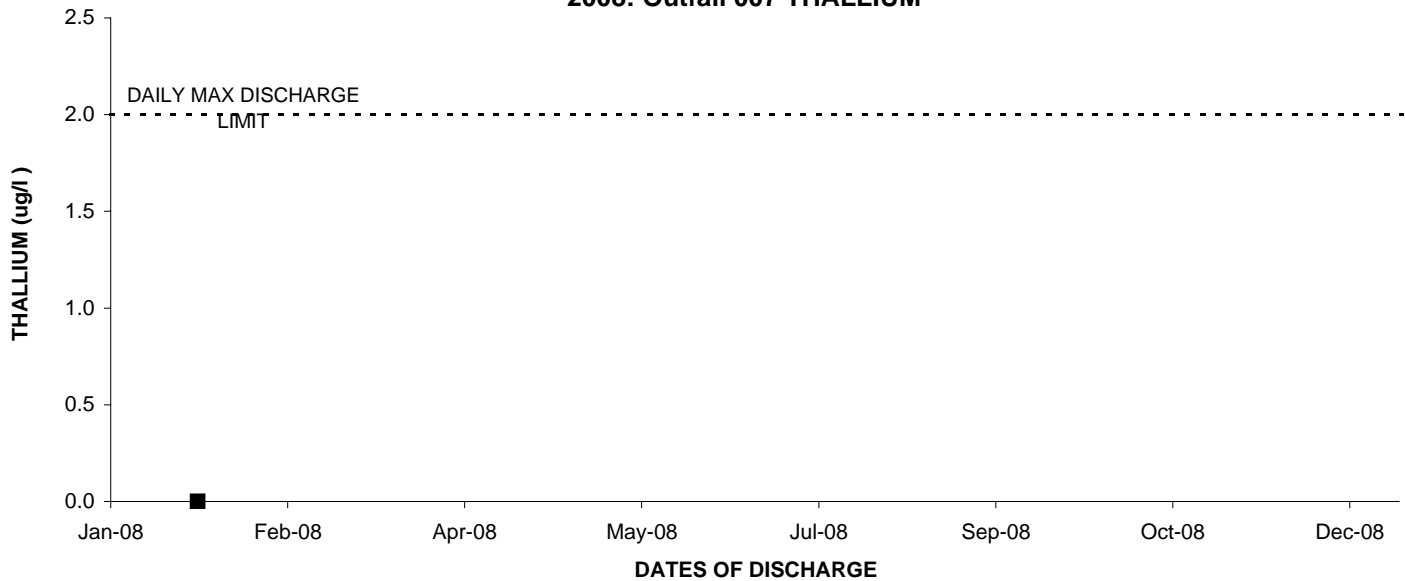
### 2008: Outfall 007 LEAD



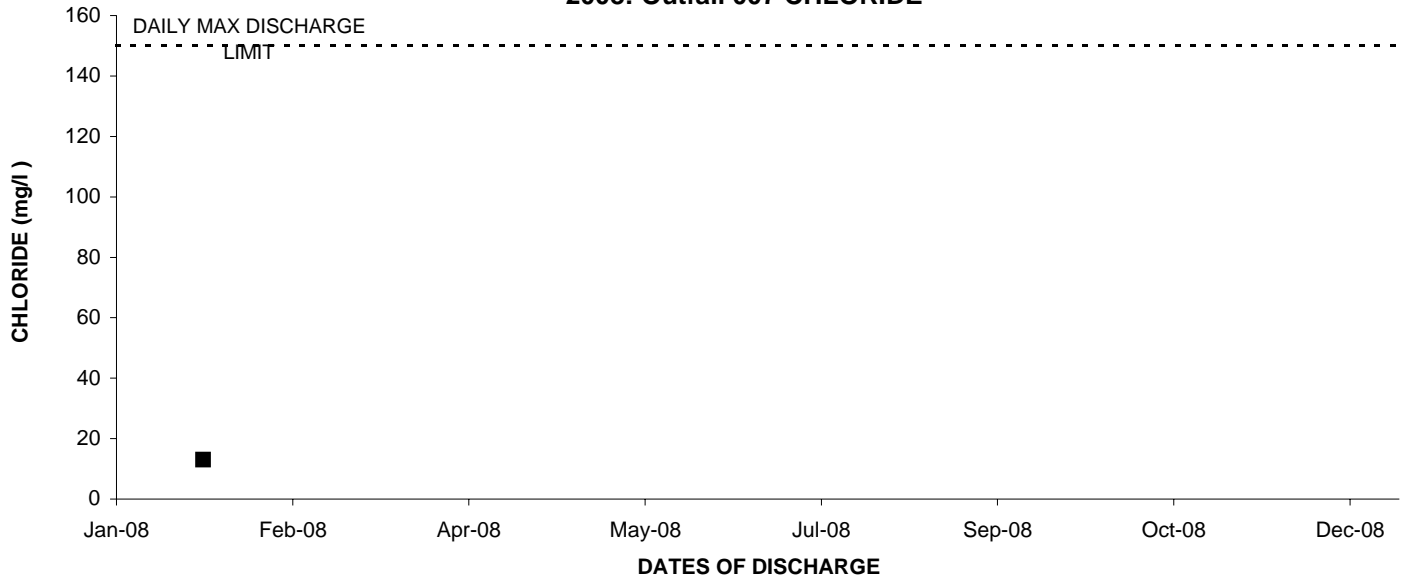
### 2008: Outfall 007 MERCURY



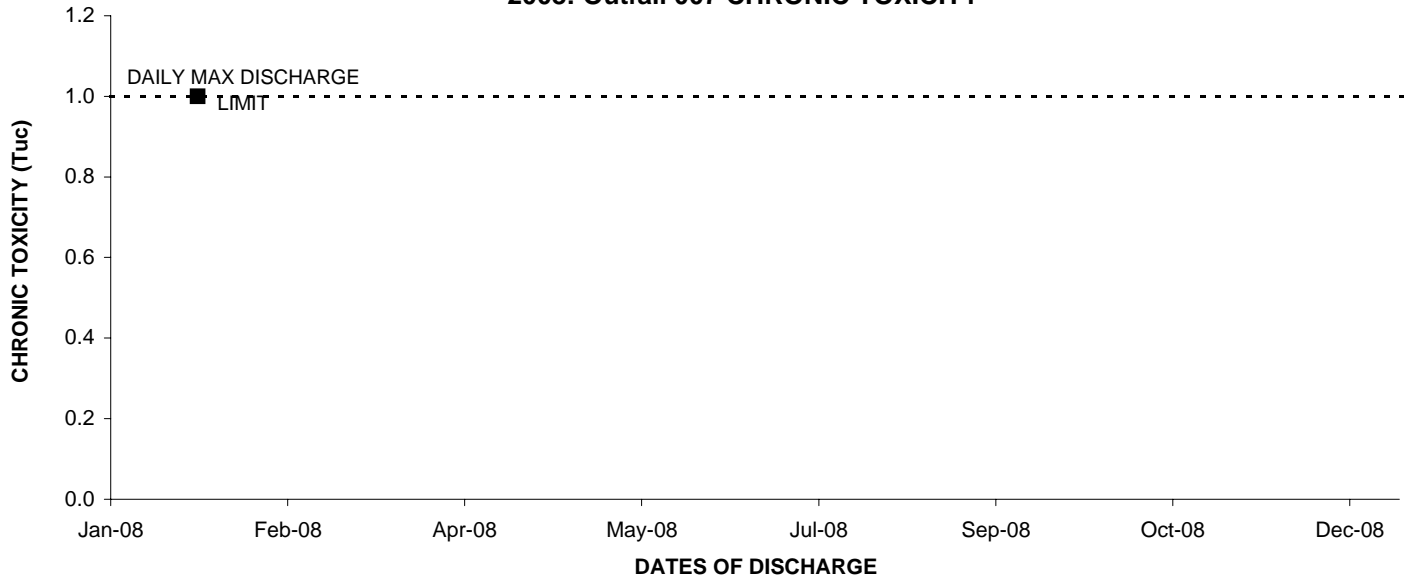
### 2008: Outfall 007 THALLIUM



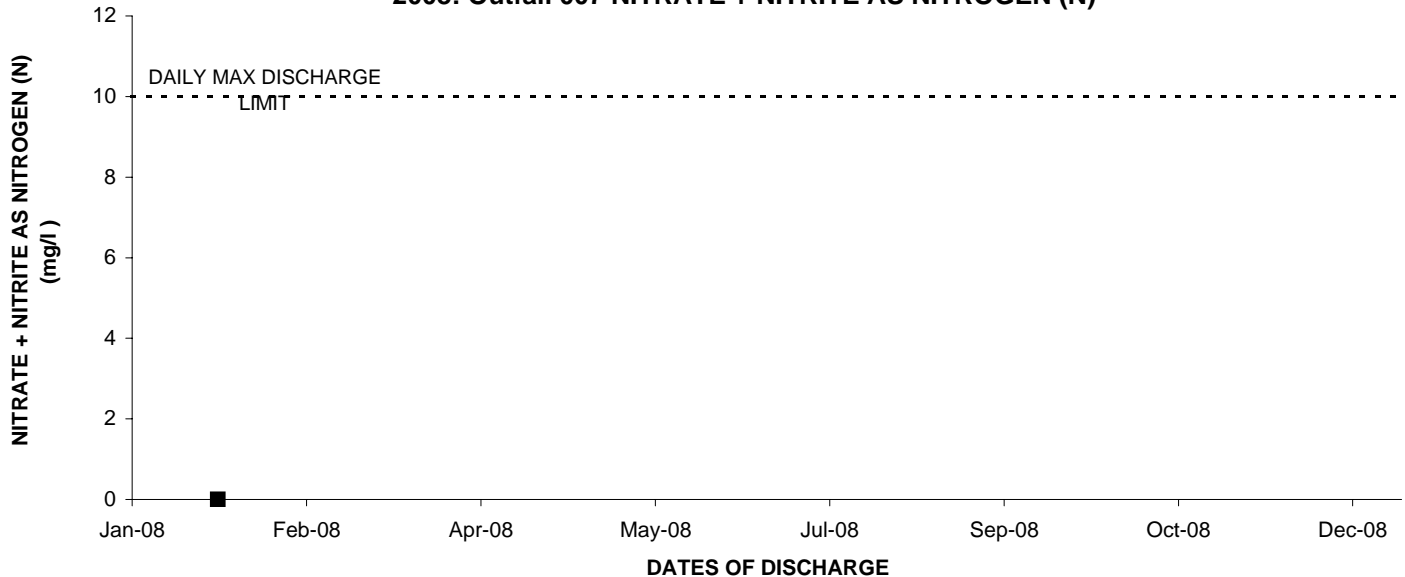
### 2008: Outfall 007 CHLORIDE



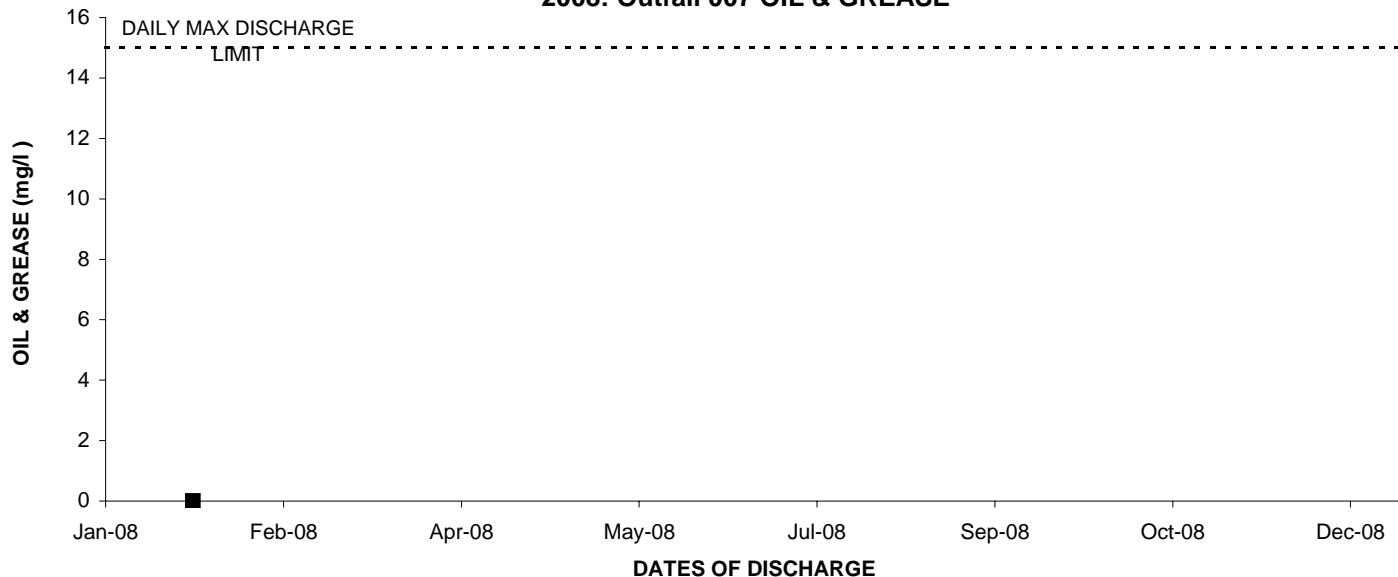
### 2008: Outfall 007 CHRONIC TOXICITY



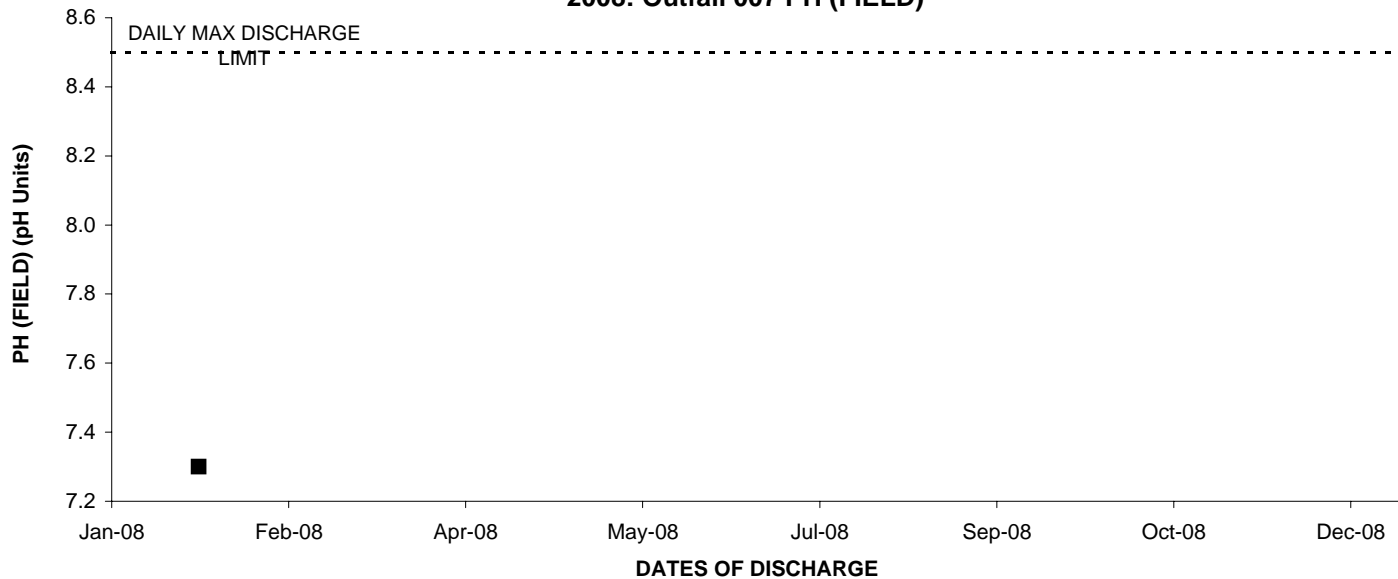
### 2008: Outfall 007 NITRATE + NITRITE AS NITROGEN (N)



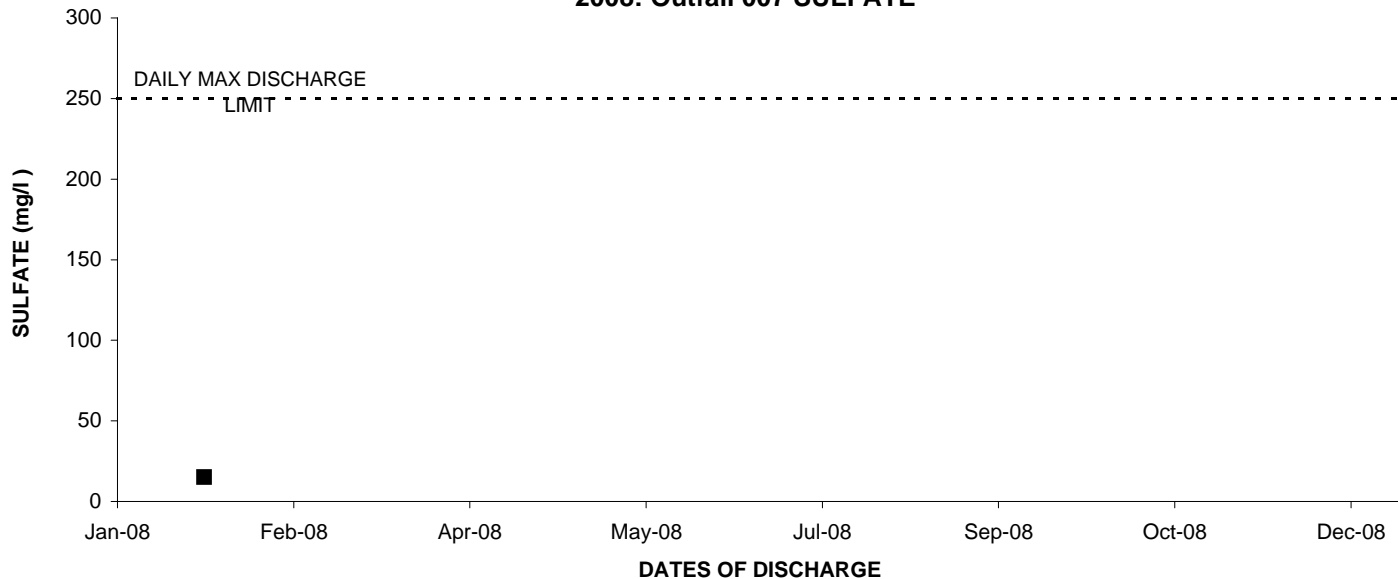
### 2008: Outfall 007 OIL & GREASE



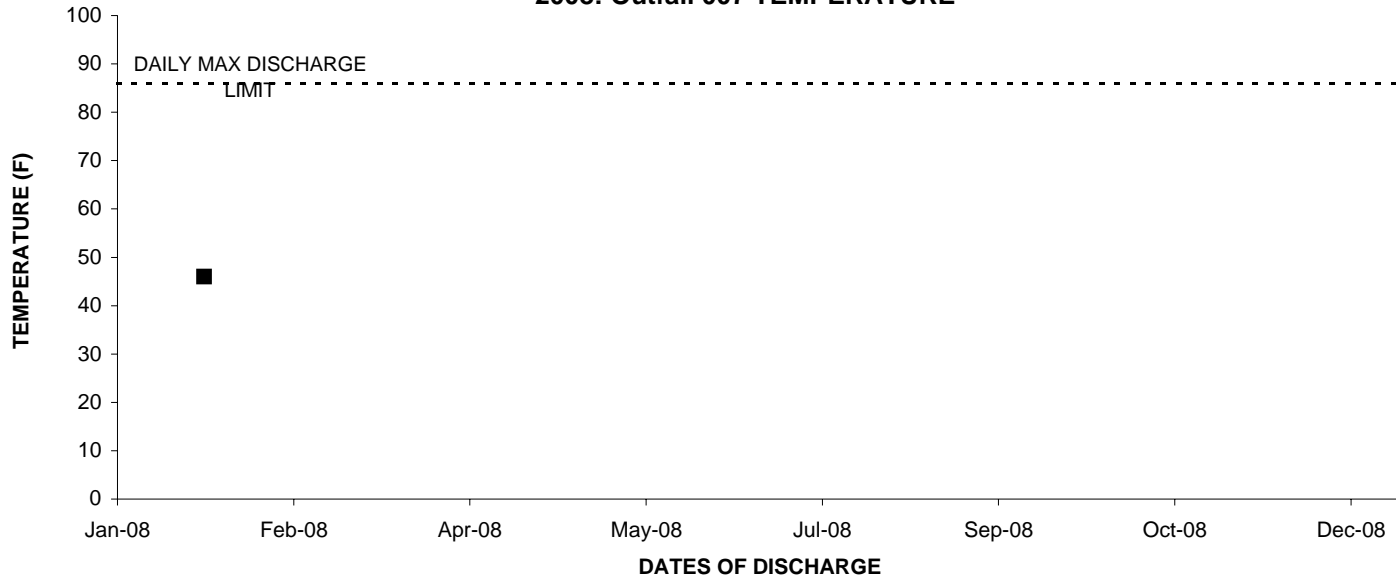
### 2008: Outfall 007 PH (FIELD)



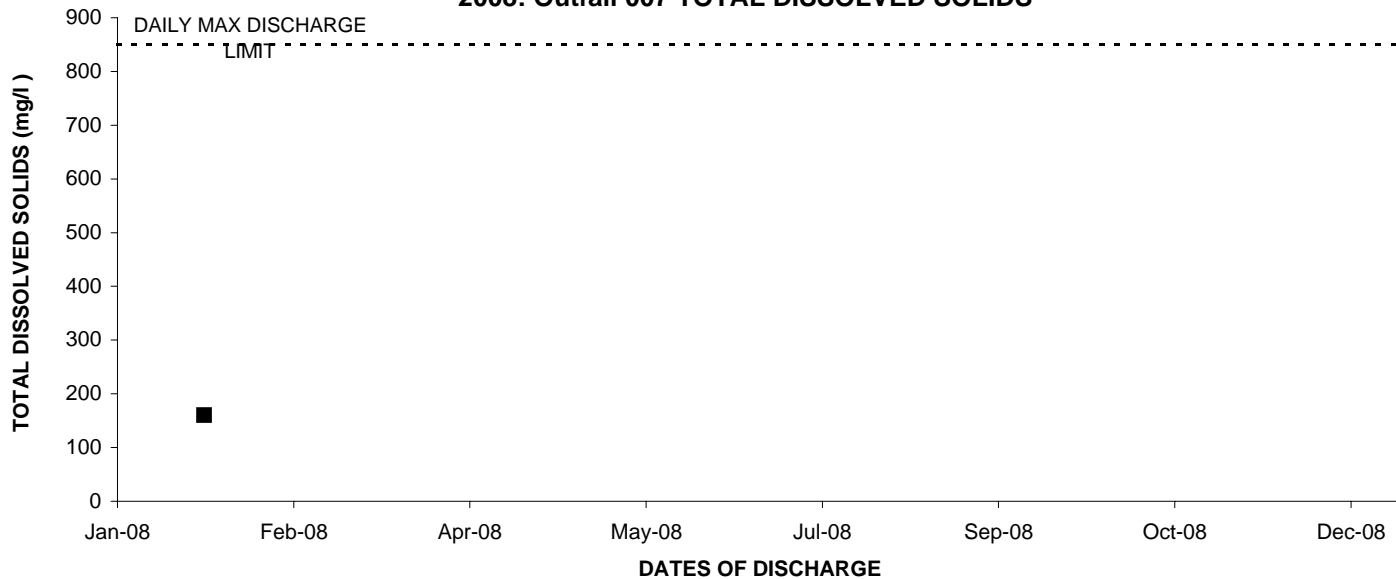
### 2008: Outfall 007 SULFATE



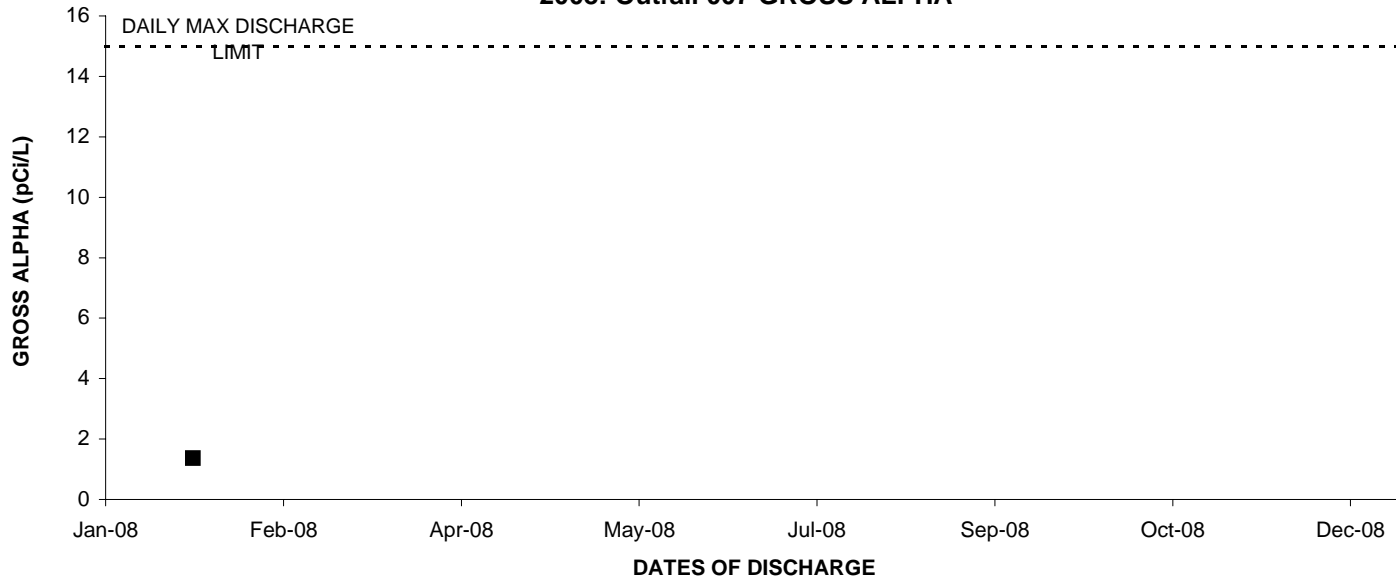
### 2008: Outfall 007 TEMPERATURE



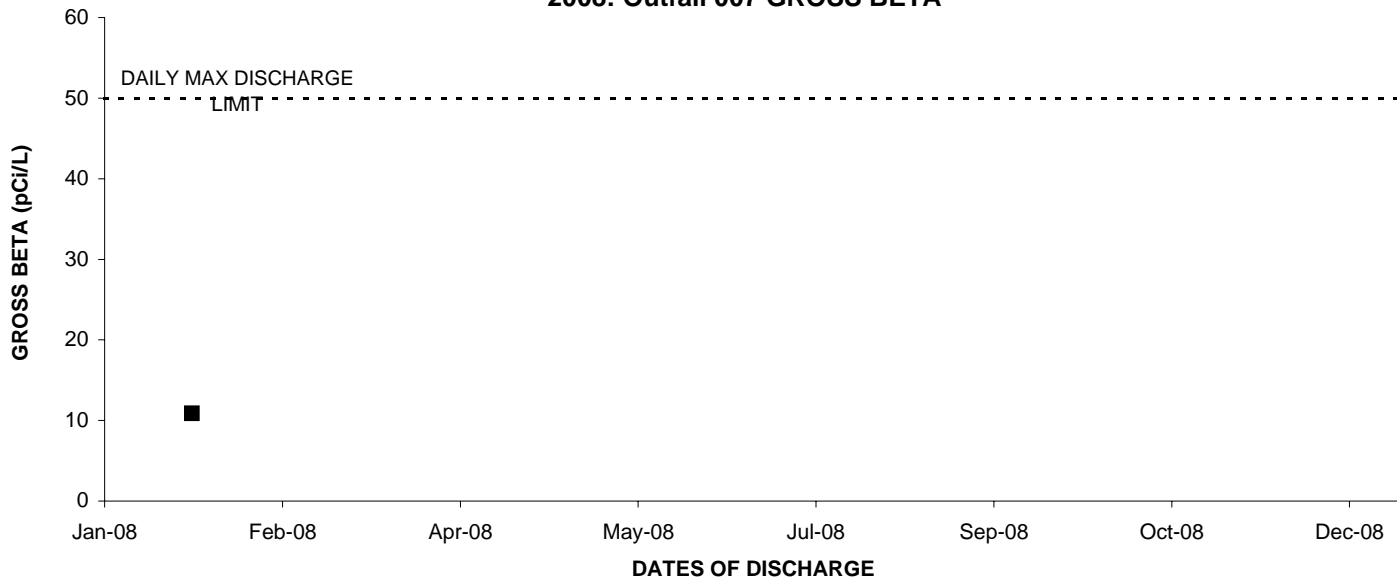
### 2008: Outfall 007 TOTAL DISSOLVED SOLIDS



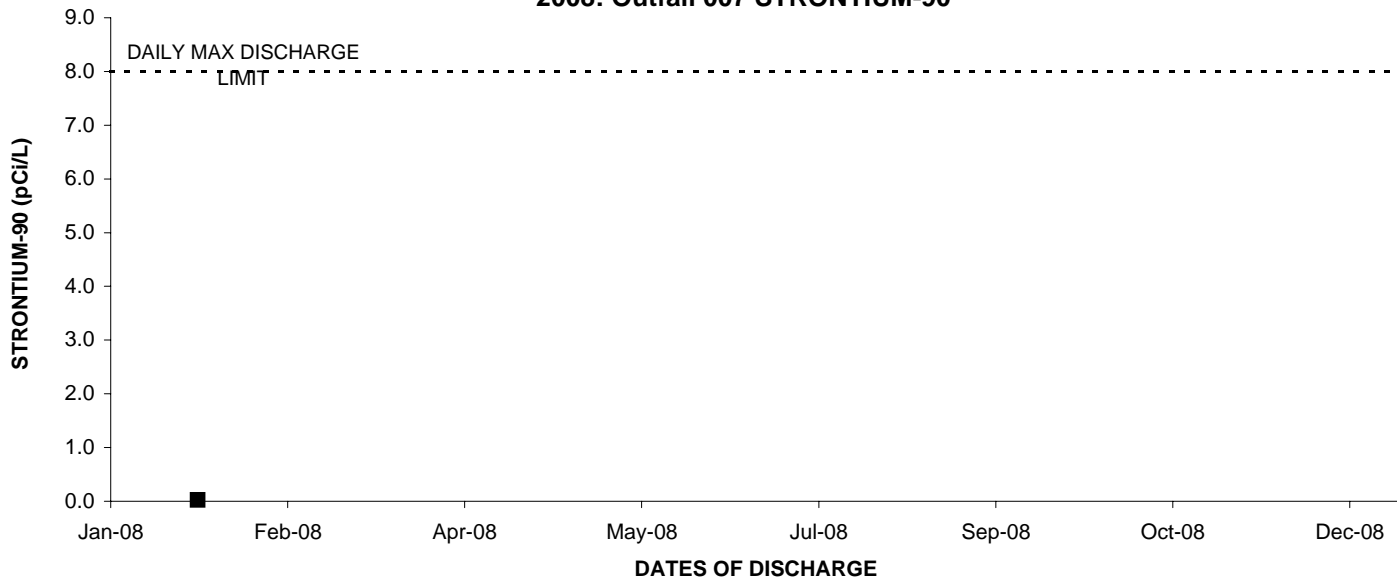
### 2008: Outfall 007 GROSS ALPHA



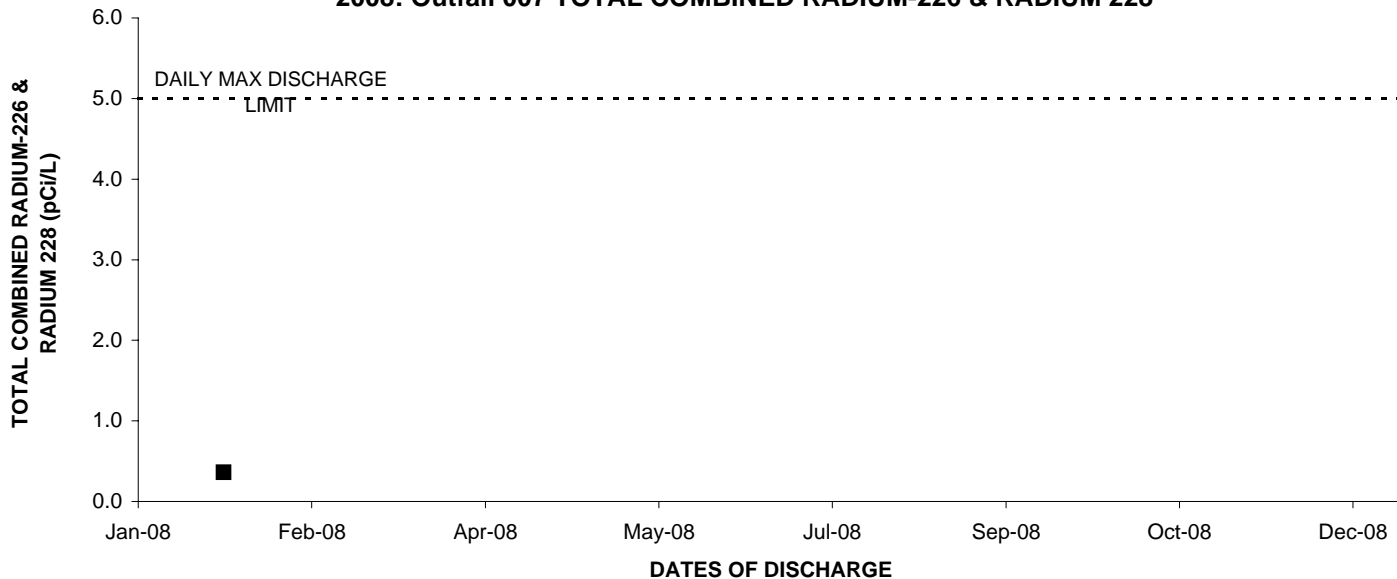
### 2008: Outfall 007 GROSS BETA



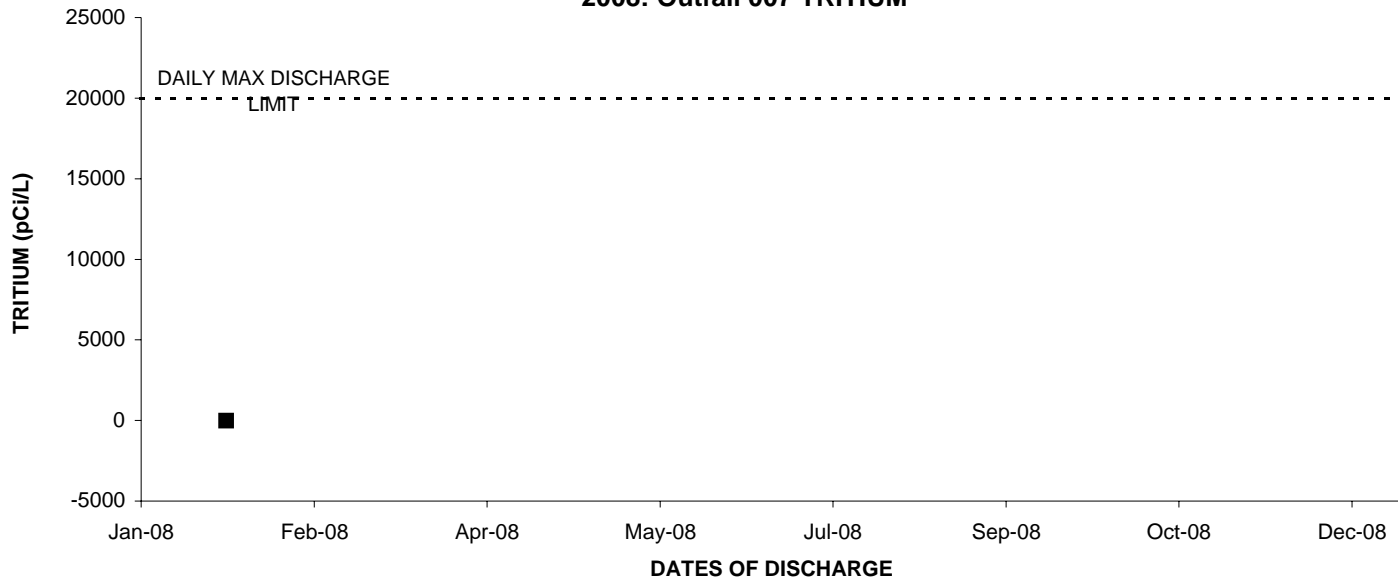
### 2008: Outfall 007 STRONTIUM-90



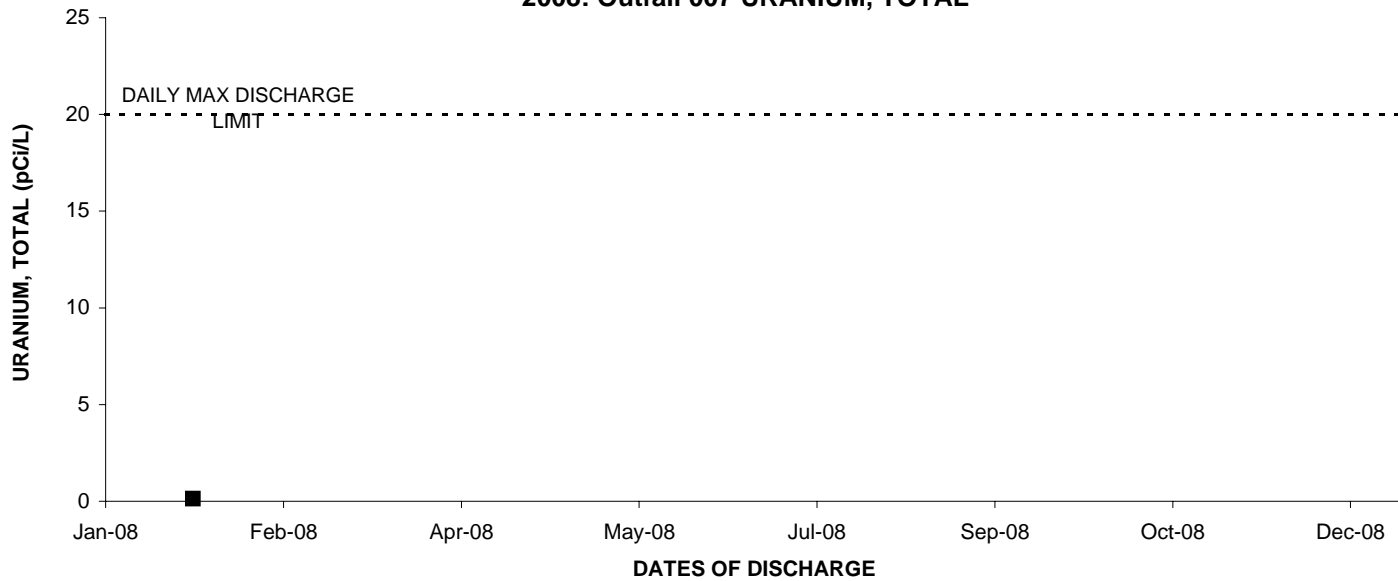
### 2008: Outfall 007 TOTAL COMBINED RADIUM-226 & RADIUM 228



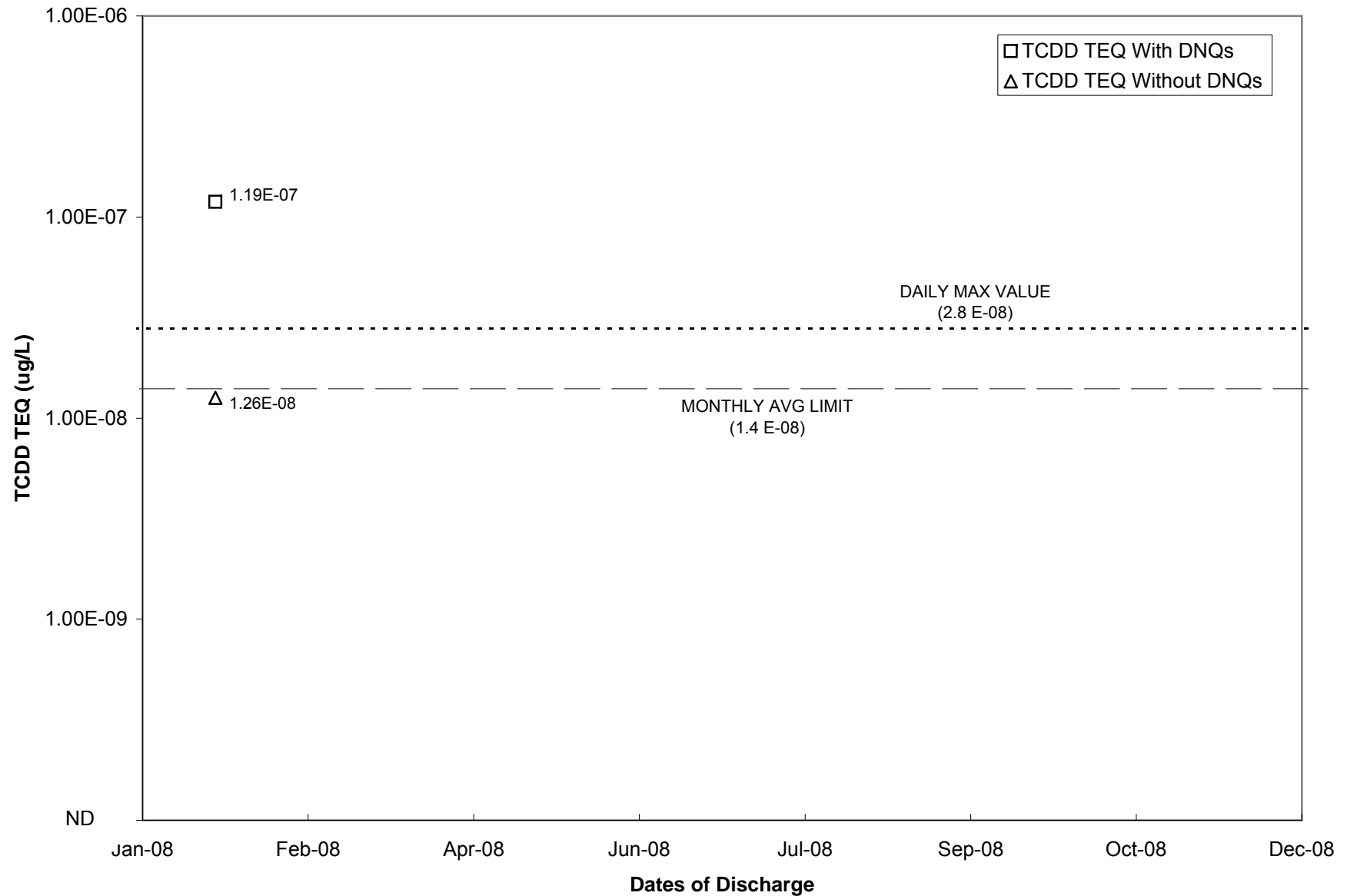
### 2008: Outfall 007 TRITIUM



### 2008: Outfall 007 URANIUM, TOTAL



### 2008: Outfall 007 TCDD



Note: Only TCDD TEQ Without DNQs (  $\Delta$  ) are used for compliance purposes and if greater than the daily max value, are a permit limit exceedance. TCDD TEQ With DNQ values are shown for information purposes only.