

SECTION 3

OUTFALL 003 (RMHF)  
ANNUAL 2010 REPORTING SUMMARY

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**OUTFALL 003 (RMHF)**

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

**OUTFALL 003 (RMHF)**

**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	1/21/2010-1/22/2010			2/6/2010-2/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Anthracene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	U
Aroclor-1016	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Aroclor-1221	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Aroclor-1232	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Aroclor-1242	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Aroclor-1248	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Aroclor-1254	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Aroclor-1260	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.24	U
Benidine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 9.6	UJ (C, *III)
Benzo(a)anthracene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	U
Benzo(a)pyrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Benzo(b)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.9	U
Benzo(g,h,i)perylene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.8	U
Benzo(k)fluoranthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	U
Benzoic acid	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 9.6	UJ (C, *III)
Benzyl alcohol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	UJ (C)
beta-BHC	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0038	U
bis (2-Chloroethyl) ether	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
bis (2-ethylhexyl) Phthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.8	U
bis(2-Chloroethoxy) methane	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
bis(2-Chloroisopropyl) ether	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	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	Comp	ND < 3.8	U
Chlordane	ug/L	-/-	ANR	ANR	ANR	Comp	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
Chlorpyrifos	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.0	U
Chronic Toxicity	TUC	1.0/-	Comp	1.0	*	Comp	1.0	*
Chrysene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	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
delta-BHC	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0033	U
Diazinon	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.25	U
Dibenzo(a,h)anthracene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Dibenzofuran	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.8	U
Dibromochloromethane	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.40	U
Dieldrin	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0019	U
Diethylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	U
Dimethylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	U
Di-n-butylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Di-n-octylphthalate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	U
Endosulfan I	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0019	U
Endosulfan II	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0028	UJ (C)
Endosulfan sulfate	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0028	U
Endrin	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0019	UJ (C)
Endrin aldehyde	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0019	U
Endrin ketone	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0028	UJ (C)
Fluoranthene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Fluorene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Heptachlor	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0028	UJ (C)
Heptachlor epoxide	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0024	U
Hexachlorobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Hexachlorobutadiene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.8	U
Hexachlorocyclopentadiene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 4.8	UJ (C)

See attached notes for abbreviations, definitions,

**OUTFALL 003 (RMHF)**

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NPDES PERMIT CA0001309**

January 1, 2010 through July 18, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	1/21/2010-1/22/2010			2/6/2010-2/7/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Hexachloroethane	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	U
Indeno(1,2,3-cd)pyrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	U
Isophorone	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Lindane (gamma-BHC)	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0028	U
Methoxychlor	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 0.0033	U
Methylene Chloride	ug/L	-/-	ANR	ANR	ANR	Grab	ND < 0.95	U
m-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Naphthalene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Nitrobenzene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
n-Nitrosodimethylamine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.4	U
n-Nitroso-di-n-propylamine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	U
n-Nitrosodiphenylamine	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.9	UJ (C)
o-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.9	U
p-Cresol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 2.9	U
Pentachlorophenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	UJ (C)
Phenanthrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.4	U
Phenol	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 1.9	U
p-Nitroaniline	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.8	U
Pyrene	ug/L	-/-	ANR	ANR	ANR	Comp	ND < 3.8	U
Toxaphene	ug/L	-/-	ANR	ANR	ANR	Comp	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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**Sample Type: Composite**

**Sample Date: January 21-22, 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	1.20E-05	4.90E-05	4.00E-05	J (DNQ)	0.01	ND
1,2,3,4,6,7,8-HpCDF	7.30E-06	7.30E-06	ND	UJ (*III)	0.01	ND
1,2,3,4,7,8,9-HpCDF	1.30E-05	4.90E-05	ND	U	0.01	ND
1,2,3,4,7,8-HxCDD	9.60E-06	4.90E-05	ND	U	0.1	ND
1,2,3,4,7,8-HxCDF	6.10E-06	4.90E-05	ND	U	0.1	ND
1,2,3,6,7,8-HxCDD	8.10E-06	4.90E-05	ND	U	0.1	ND
1,2,3,6,7,8-HxCDF	5.40E-06	4.90E-05	ND	U	0.1	ND
1,2,3,7,8,9-HxCDD	7.00E-06	4.90E-05	ND	U	0.1	ND
1,2,3,7,8,9-HxCDF	6.70E-06	4.90E-05	ND	U	0.1	ND
1,2,3,7,8-PeCDD	1.30E-05	4.90E-05	ND	U	1	ND
1,2,3,7,8-PeCDF	9.00E-06	4.90E-05	ND	U	0.05	ND
2,3,4,6,7,8-HxCDF	5.60E-06	4.90E-05	ND	U	0.1	ND
2,3,4,7,8-PeCDF	1.20E-05	4.90E-05	ND	U	0.5	ND
2,3,7,8-TCDD	5.50E-06	9.80E-06	ND	U	1	ND
2,3,7,8-TCDF	3.50E-06	9.80E-06	ND	U	0.1	ND
OCDD	3.50E-05	9.80E-05	2.80E-04	--	0.0001	2.80E-08
OCDF	2.10E-05	9.80E-05	1.60E-05	J (DNQ)	0.0001	ND

<b>TCDD TEQ w/out DNQ Values</b>	<b>2.80E-08</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.





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January 1, 2010 through July 18, 2010

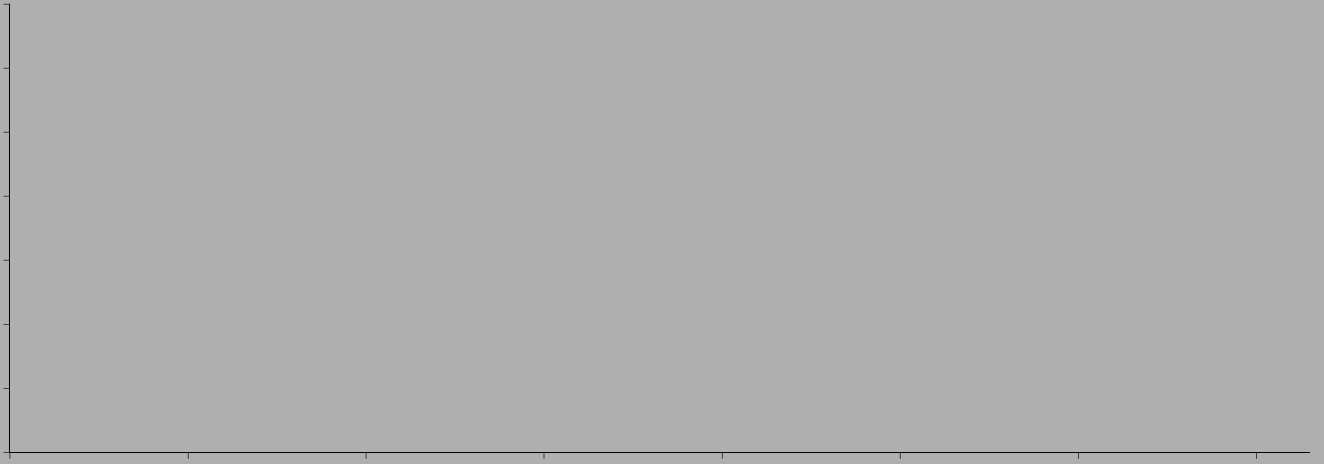
ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	01/21/2010-01/22/2010			02/06/2010-02/07/2010		
			Sample Type	Result	Concentration Result Validation Qualifier	Sample Type	Result	Concentration Result Validation Qualifier
Max discharge for event	MGD	17.8	Meas	0.016715	*	Meas	0.00442	*
Chloride	LBS/DAY	22,268/-	Comp	0.91	*	Comp	0.21	--
Fluoride	LBS/DAY	238/-	ANR	ANR	ANR	Comp	0.01	--
Nitrate + Nitrite as Nitrogen (N)	LBS/DAY	1,485/-	Comp	0.21	*	Comp	0.03	--
Oil & Grease	LBS/DAY	2,227/-	Grab	ND	*	Grab	ND	U
Perchlorate	LBS/DAY	0.89/-	ANR	ANR	ANR	Comp	ND	U
Sulfate	LBS/DAY	37,113/-	Comp	1.25	*	Comp	0.48	--
Total Dissolved Solids	LBS/DAY	126,184/-	Comp	19.52	*	Comp	7.00	--
Antimony	LBS/DAY	0.89/-	Comp	ND	*	Comp	ND	UJ (B)
Boron	LBS/DAY	148/-	ANR	ANR	ANR	Comp	ND	U (B)
Cadmium	LBS/DAY	0.59/-	Comp	0.00017	Ja* (DNQ)	Comp	ND	UJ (R, B)
Copper	LBS/DAY	2.08/-	Comp	0.00053	B*	Comp	0.00010	J (*III)
Lead	LBS/DAY	0.77/-	Comp	0.00031	B*	Comp	0.000032	J (DNQ)
Mercury	LBS/DAY	0.02/-	Comp	0.000018	J (DNQ)	Comp	ND	U
Nickel	LBS/DAY	14.9/-	ANR	ANR	ANR	Comp	ND	UJ (R)
Thallium	LBS/DAY	0.3/-	Comp	ND	*	Comp	ND	U
TCDD TEQ_NoDNQ	LBS/DAY	4.20E-09/-	Comp	3.90E-12	--	Comp	ND	--

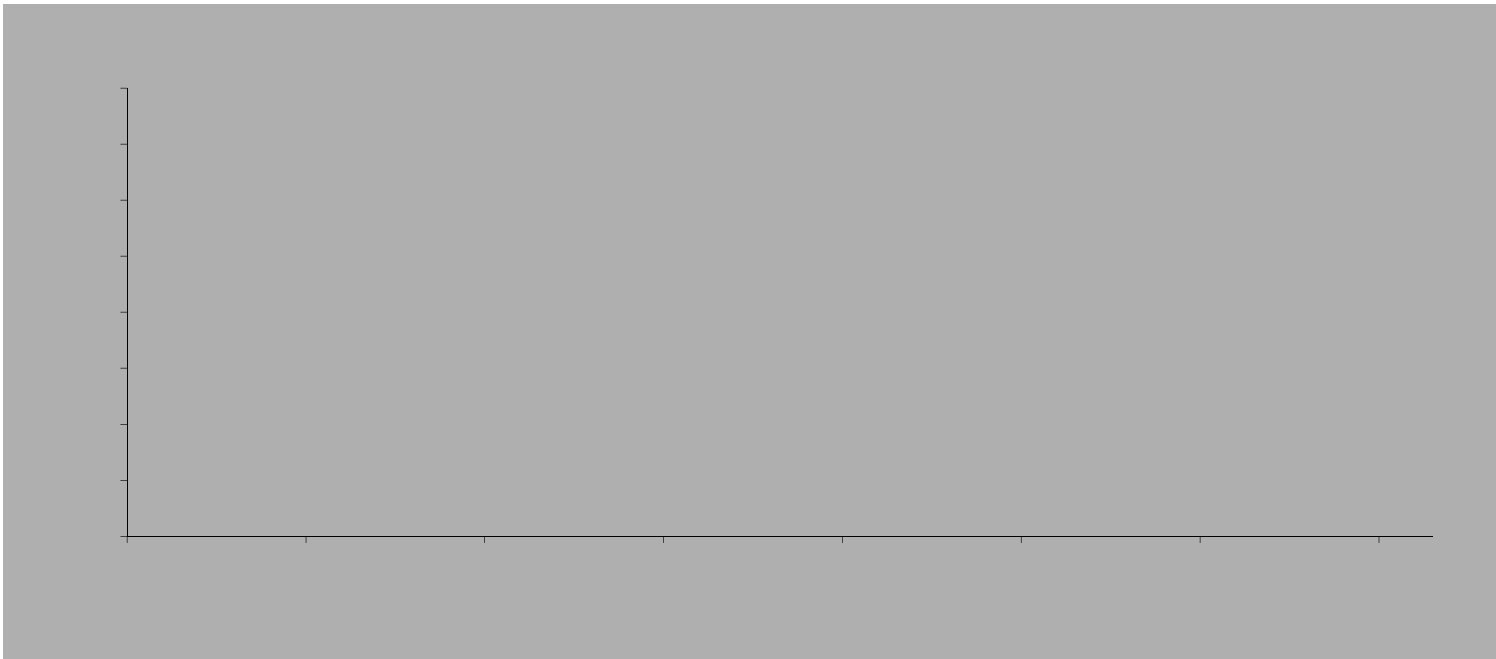
**BMP EFFECTIVENESS  
OUTFALL 003 (RMHF)**

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

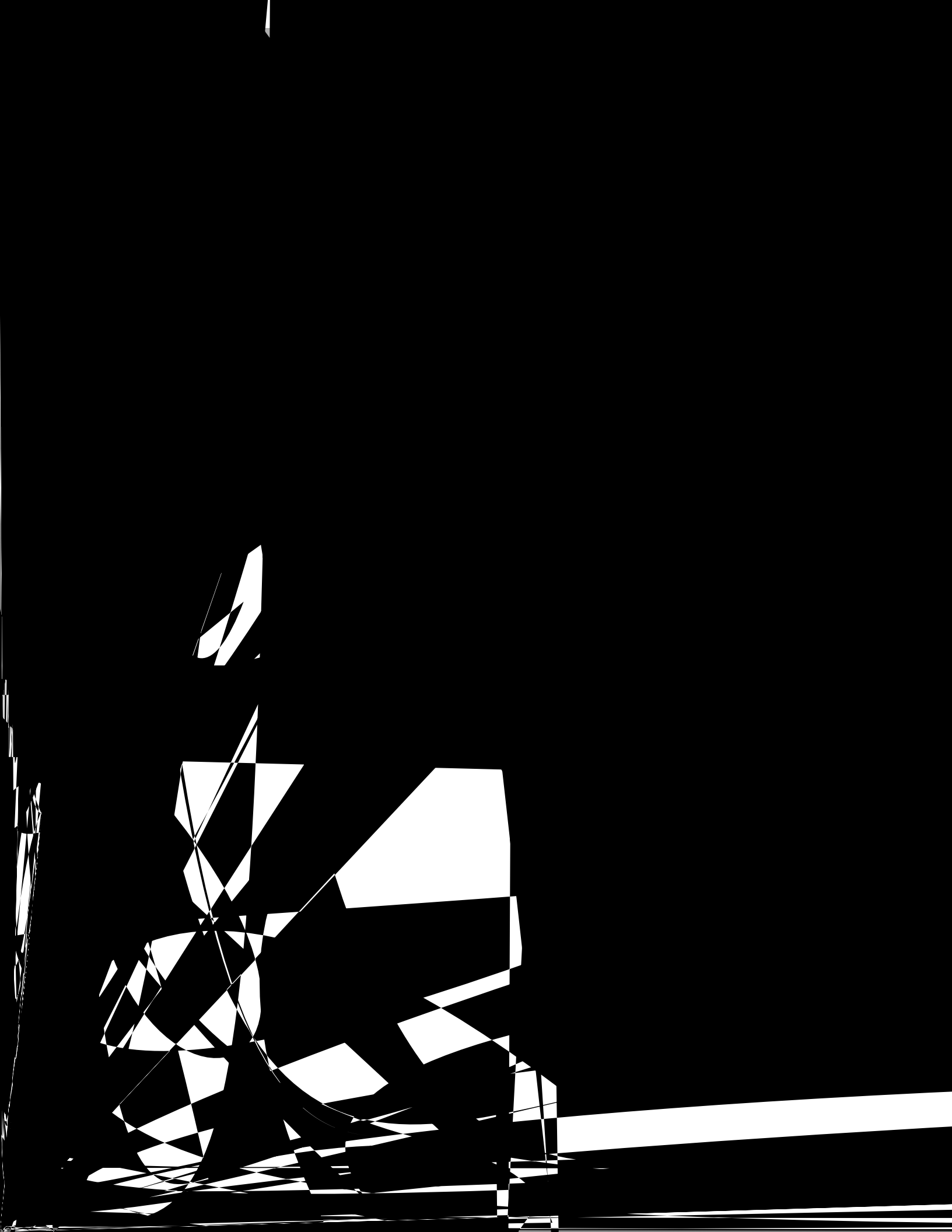
<b>SAMPLE NAME</b>	<b>SAMPLE DATE</b>	<b>ANALYTE</b>	<b>UNITS</b>	<b>RESULT</b>
003 EFF-1	01/21/10	Density	g/cc	1.0*
003 EFF-1	01/21/10	Sediment	mg/L	23*
003 EFF-1	02/07/10	Density	g/cc	1.0*
003 EFF-1	02/07/10	Sediment	mg/L	25*





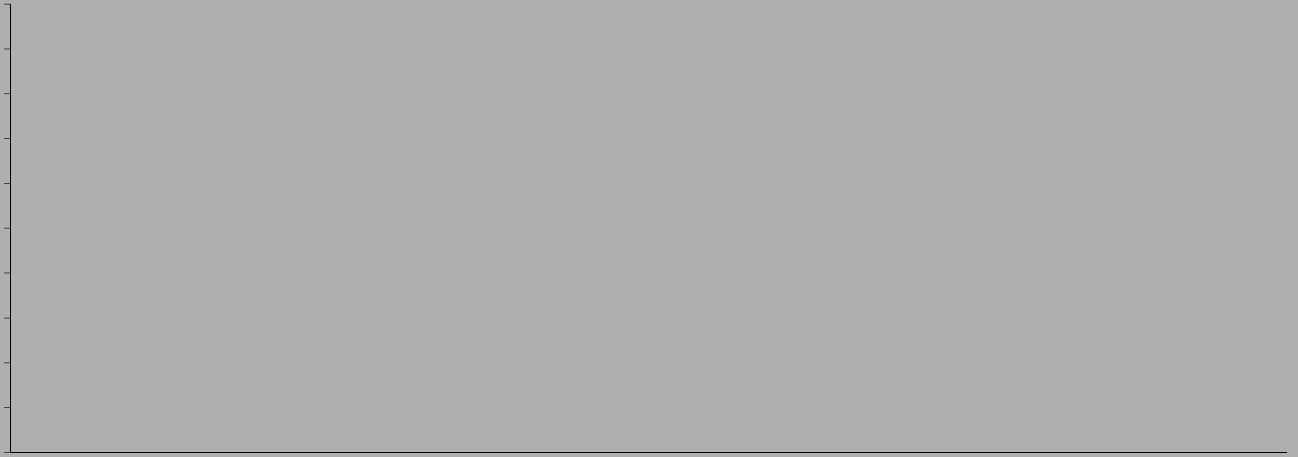








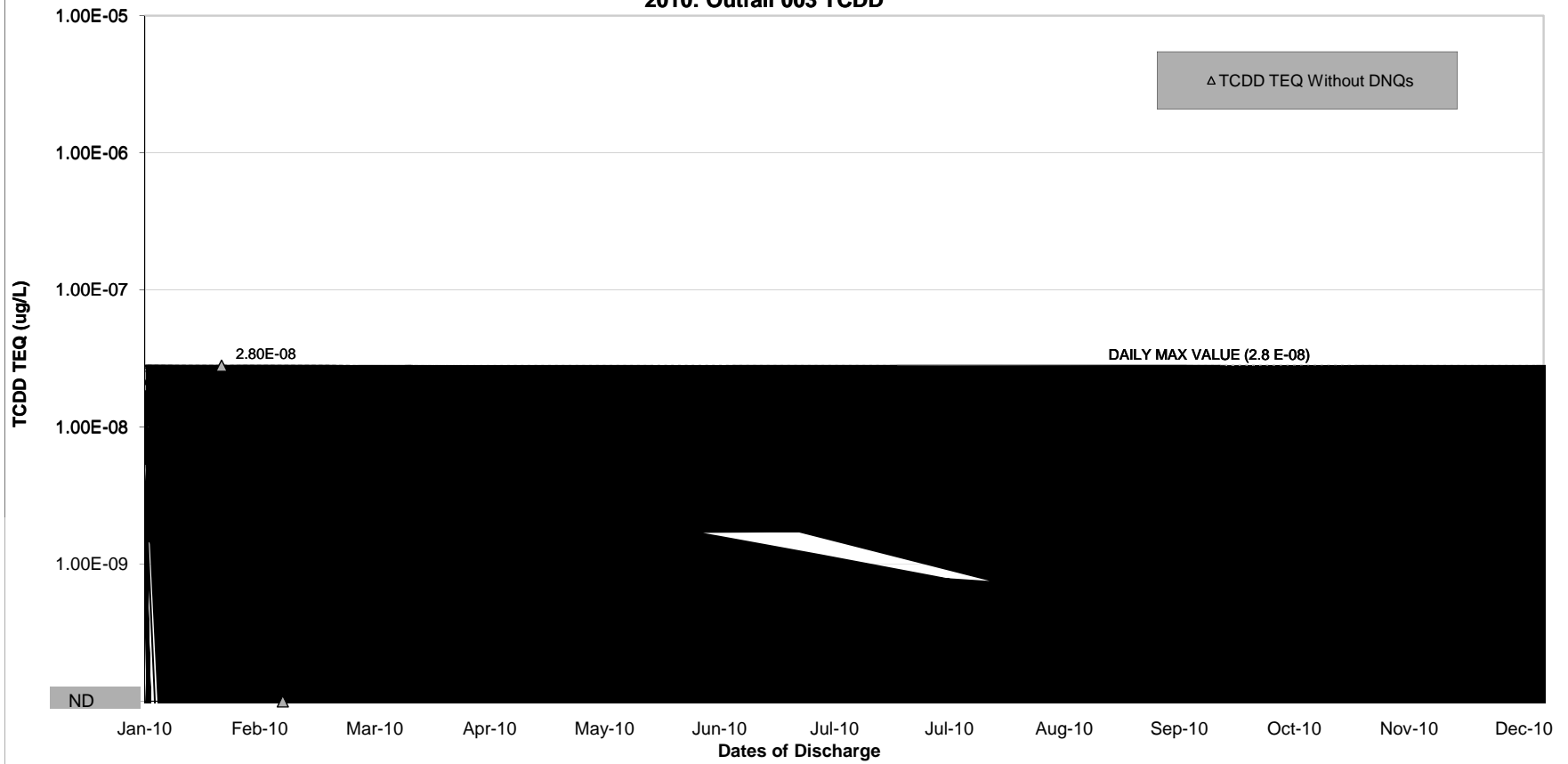








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