

SECTION 10

ARROYO SIMI (FRONTIER PARK RECEIVING WATER)  
ANNUAL 2010 REPORTING SUMMARY

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**ARROYO SIMI (Frontier Park Receiving Water)**

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

January 1 through December 31, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	2/11/2010			5/12/2010		8/5/2010	
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
Water Velocity	ft/sec	-/-	Meas	0.12	*	0.05	*	0.05	*
pH (Field)	pH Units	6.5-8.5/-	Grab	7.41	*	7.6	*	7.6	*
Temperature	F	-/-	Grab	58.3	*	70	*	75	*
Hardness	mg/L	-/-	Grab	880	--	850	--	710	--
Calcium	mg/L	-/-	Grab	230	--	230	--	190	--
Magnesium	mg/L	-/-	Grab	74	--	70	J (C)	60	--
4,4'-DDD	ug/L	0.0014/-	Grab	ND < 0.0019	*	ND < 0.0019	C*	ND < 0.0019	C-1*
4,4'-DDE	ug/L	0.001/-	Grab	ND < 0.0029	*	ND < 0.0028	*	ND < 0.0028	*
4,4'-DDT	ug/L	0.001/-	Grab	ND < 0.0038	*	ND < 0.0038	*	ND < 0.0038	C-2*
Aroclor-1016	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Aroclor-1221	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Aroclor-1232	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Aroclor-1242	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Aroclor-1248	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Aroclor-1254	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Aroclor-1260	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*
Chlordane	ug/L	0.001/-	Grab	ND < 0.038	*	ND < 0.053	*	ND < 0.053	*
Chlorpyrifos	ug/L	0.02/-	Grab	ND < 0.10	U	ND < 0.010	U	ND < 0.010	U
Diazinon	ug/L	0.16/-	Grab	ND < 0.10	U	ND < 0.10	UJ (H)	ND < 0.10	U
Dieldrin	ug/L	0.0002/-	Grab	ND < 0.0019	*	ND < 0.0019	*	ND < 0.0019	*
Toxaphene	ug/L	0.0003/-	Grab	ND < 0.24	*	ND < 0.24	*	ND < 0.24	*

**ARROYO SIMI (Frontier Park Receiving Water)**

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

**January 1 through December 31, 2010**

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	SAMPLE TYPE	11/10/2010	
				RESULT	VALIDATION QUALIFIER
Water Velocity	ft/sec	-/-	Meas	0.03	*
pH (Field)	pH Units	6.5-8.5/-	Grab	7.4	*
Temperature	F	-/-	Grab	59	*
Hardness	mg/L	-/-	Grab	720	--
Calcium	mg/L	-/-	Grab	190	--
Magnesium	mg/L	-/-	Grab	58	--
4,4'-DDD	ug/L	0.0014/-	Grab	ND < 0.0038	*
4,4'-DDE	ug/L	0.001/-	Grab	ND < 0.0028	*
4,4'-DDT	ug/L	0.001/-	Grab	ND < 0.0038	*
Aroclor-1016	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor-1221	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor-1232	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor-1242	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor-1248	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor-1254	ug/L	0.0003/-	Grab	ND < 0.24	*
Aroclor-1260	ug/L	0.0003/-	Grab	ND < 0.24	*
Chlordane	ug/L	0.001/-	Grab	ND < 0.075	*
Chlorpyrifos	ug/L	0.02/-	Grab	ND < 0.010	U
Diazinon	ug/L	0.16/-	Grab	ND < 0.10	U
Dieldrin	ug/L	0.0002/-	Grab	ND < 0.0019	*
Toxaphene	ug/L	0.0003/-	Grab	ND < 0.24	*

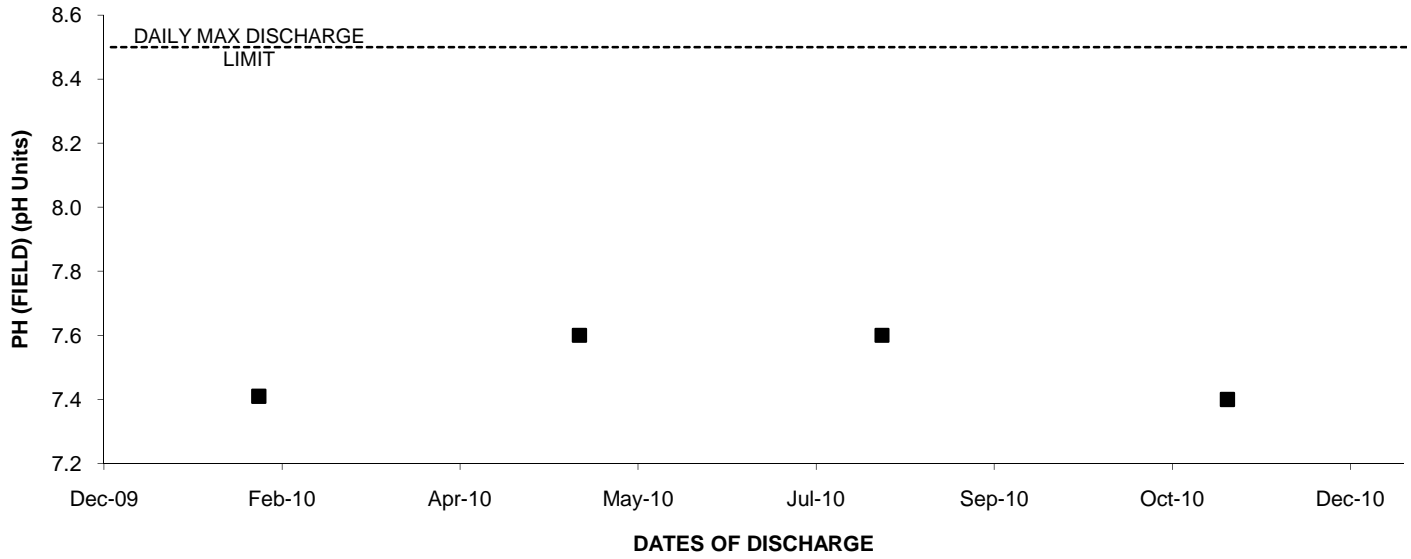
**ARROYO SIMI SEDIMENT (Frontier Park Receiving Water)**

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

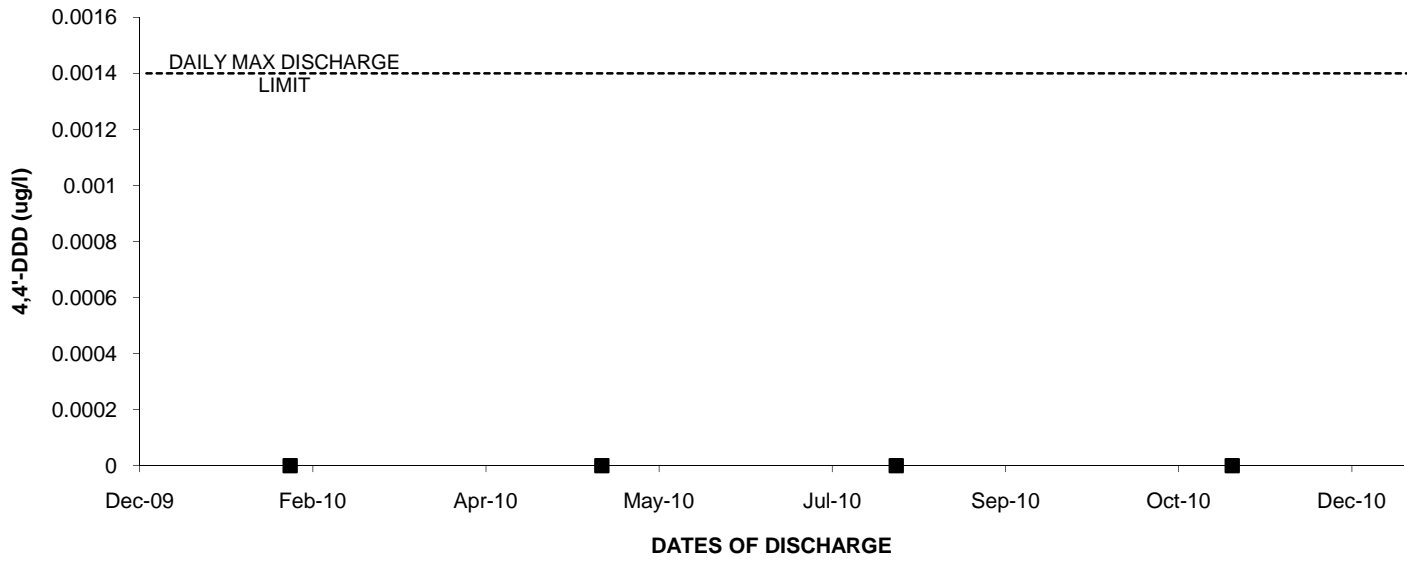
January 1 through December 31, 2010

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	2/11/2010		
			SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
Water Velocity	ft/sec	-/-	Meas	0.12	*
pH (Field)	pH Units	-/-	Grab	7.41	*
Conductivity (Field)	umhos/cm	-/-	Grab	2.19	*
Dissolved Oxygen (Field)	mg/L	-/-	Grab	4.89	*
Temperature	deg F	-/-	Grab	58.3	*
Ammonia as Nitrogen (N)	mg/kg	-/-	Grab	ND < 2.0	--
Total Organic Carbon	mg/L	-/-	Grab	ND < 1700	*
Percent Moisture	%	-/-	Grab	30	*
4,4'-DDD	ug/kg	14/-	Grab	ND < 1.5	*
4,4'-DDE	ug/kg	170/-	Grab	ND < 1.5	*
4,4'-DDT	ug/kg	25/-	Grab	ND < 1.5	C-2*
Aroclor-1016	ug/kg	25700/-	Grab	ND < 6.7	*
Aroclor-1221	ug/kg	25700/-	Grab	ND < 6.7	*
Aroclor-1232	ug/kg	25700/-	Grab	ND < 6.7	*
Aroclor-1242	ug/kg	25700/-	Grab	ND < 6.7	*
Aroclor-1248	ug/kg	25700/-	Grab	ND < 6.7	*
Aroclor-1254	ug/kg	25700/-	Grab	ND < 6.7	*
Aroclor-1260	ug/kg	25700/-	Grab	ND < 6.7	*
Chlordane	ug/kg	3.3/-	Grab	ND < 10	*
Dieldrin	ug/kg	1.1/-	Grab	ND < 1.5	*
Toxaphene	ug/kg	230/-	Grab	ND < 50	*
Sediment toxicity	%	-/-	Grab	94	*
Bivalve Embryo toxicity	%	-/-	Grab	100	*
<b>PARTICLE SIZE DISTRIBUTION</b>					
Gravel	%	-/-	Grab	0.9	*
Coarse Sand	%	-/-	Grab	0.5	*
Medium Sand	%	-/-	Grab	11.5	*
Fine Sand	%	-/-	Grab	28.8	*
Silt	%	-/-	Grab	25.5	*
Clay	%	-/-	Grab	32.9	*

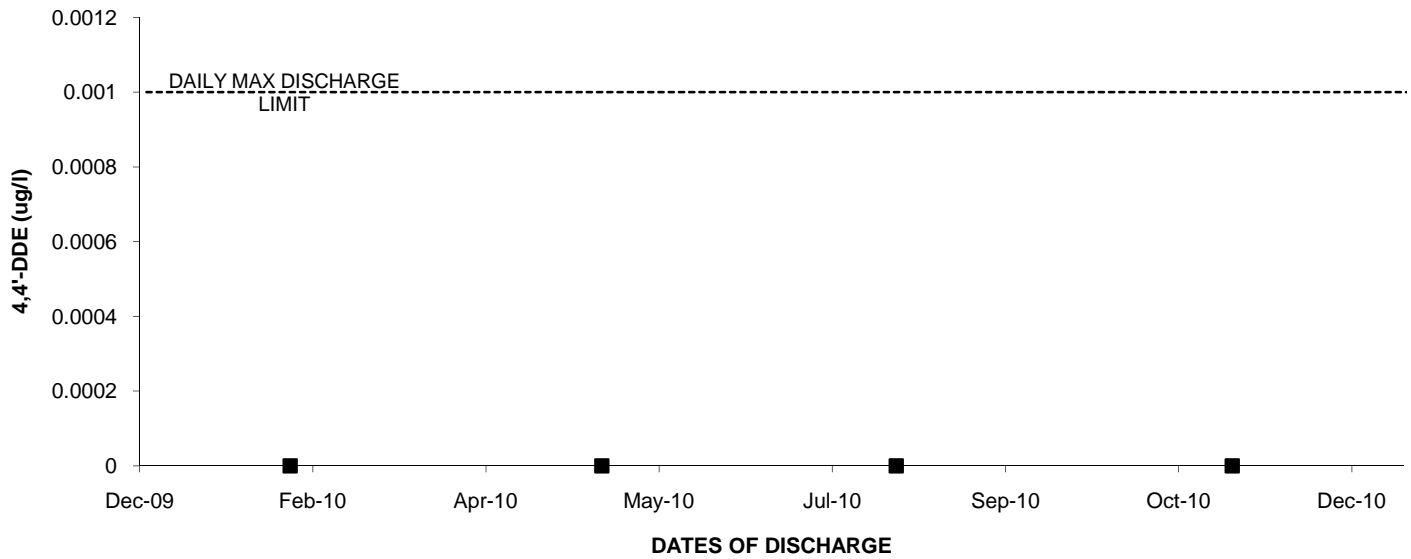
### 2010: Arroyo Simi PH (FIELD)



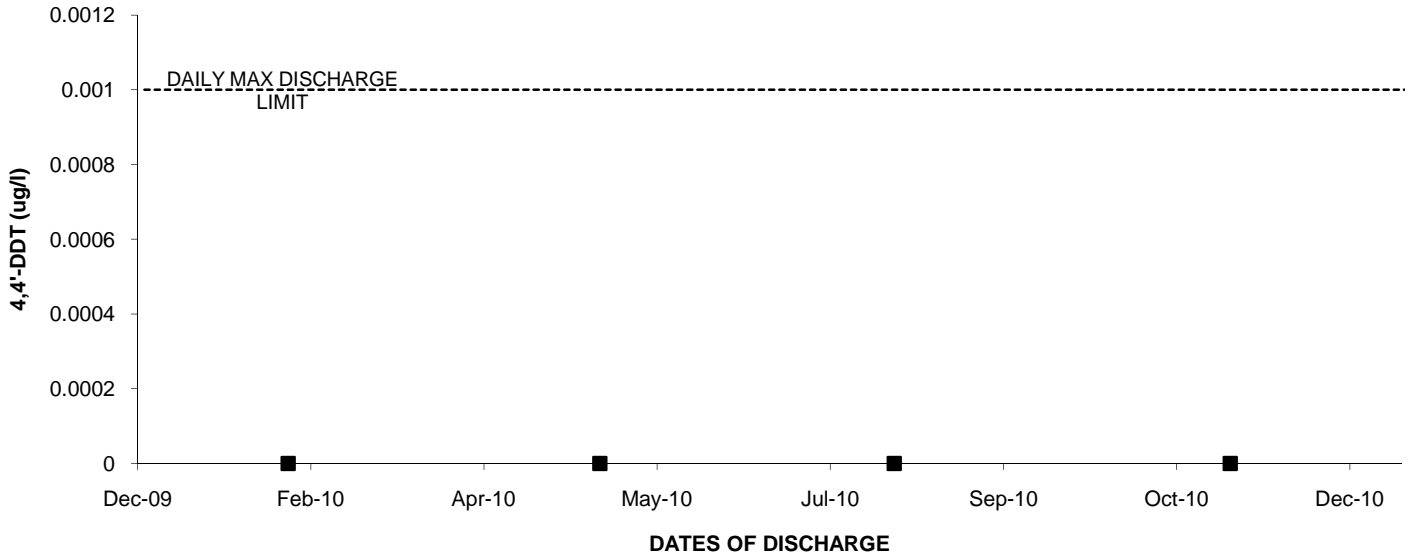
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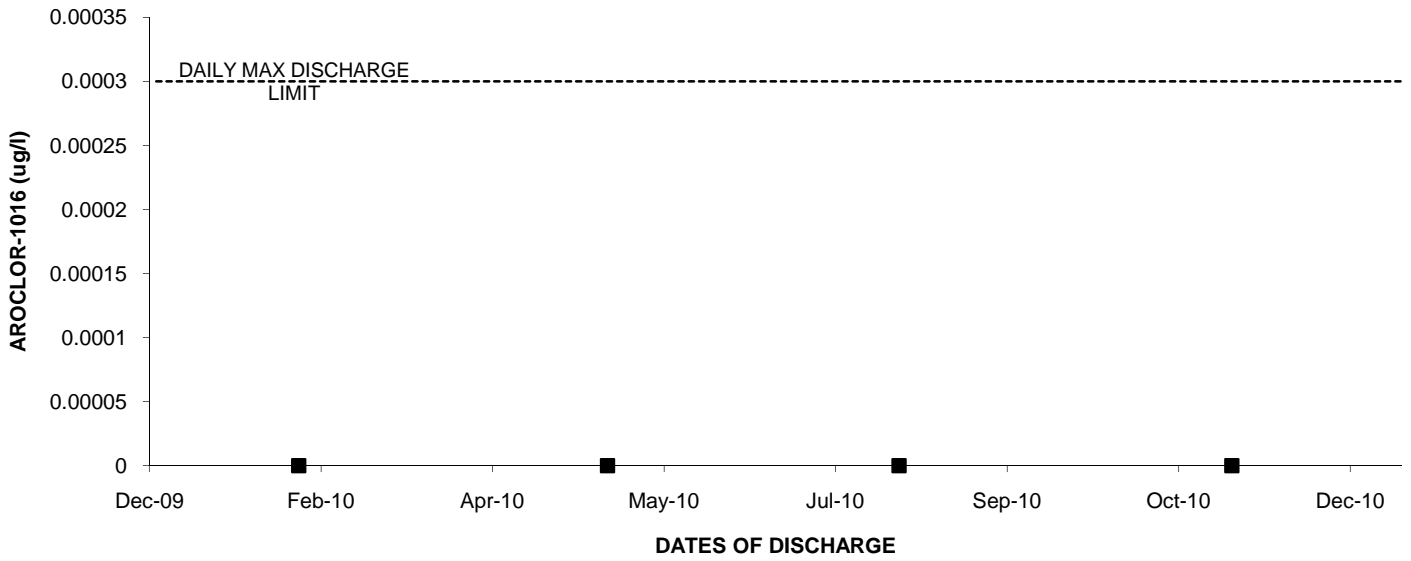
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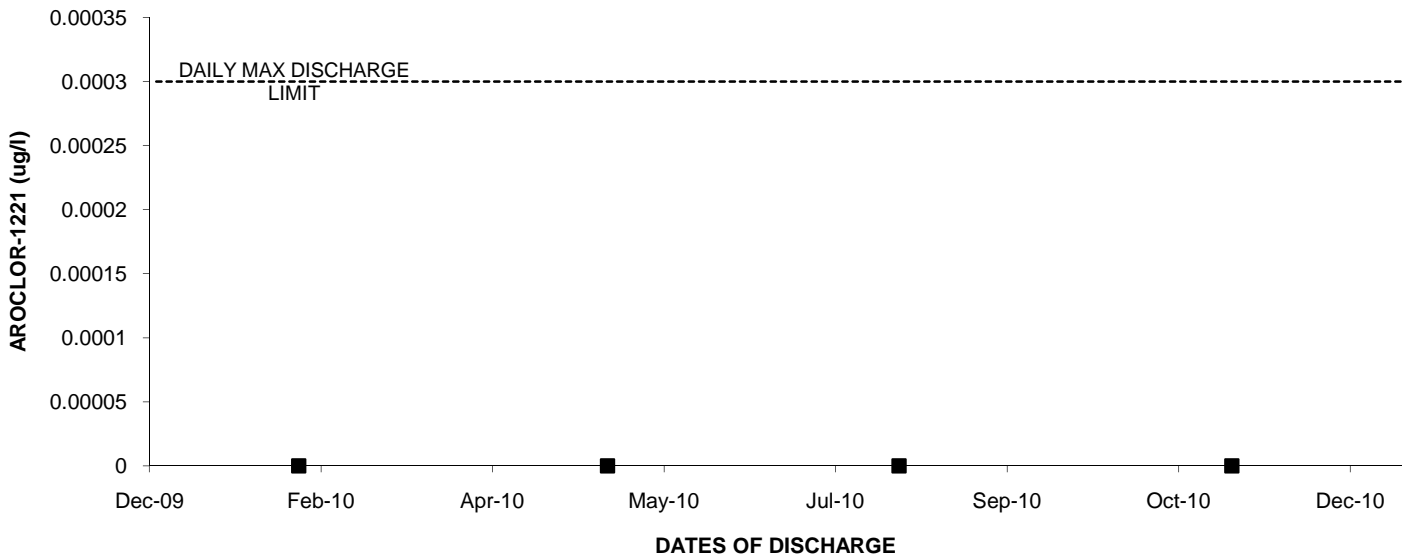
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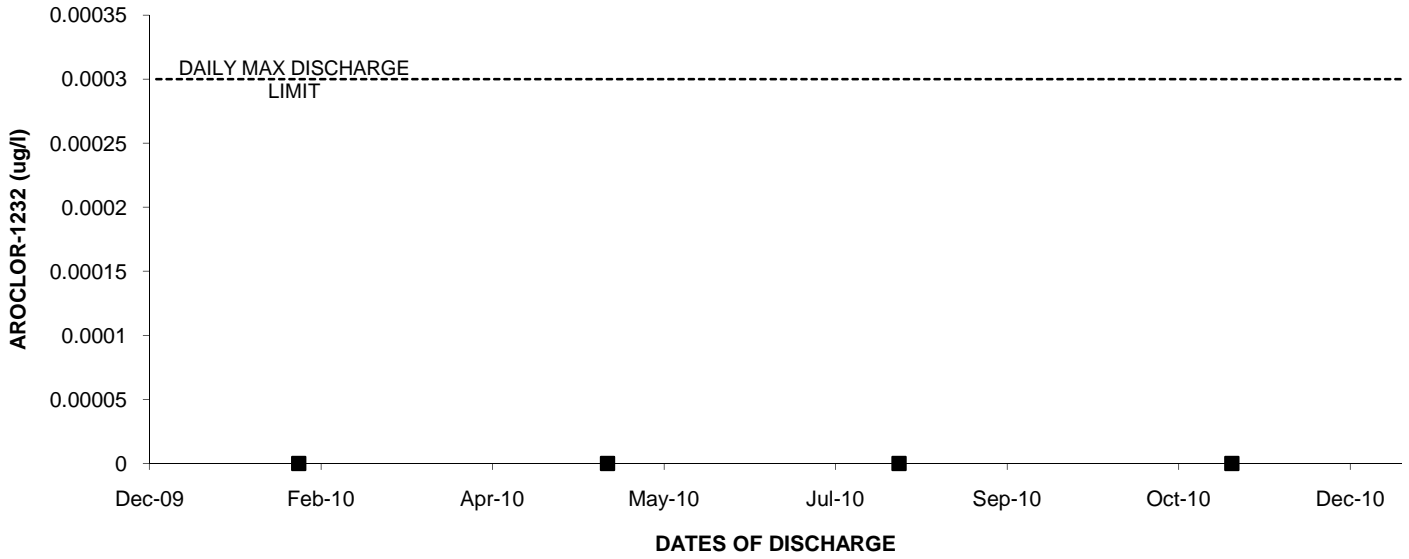
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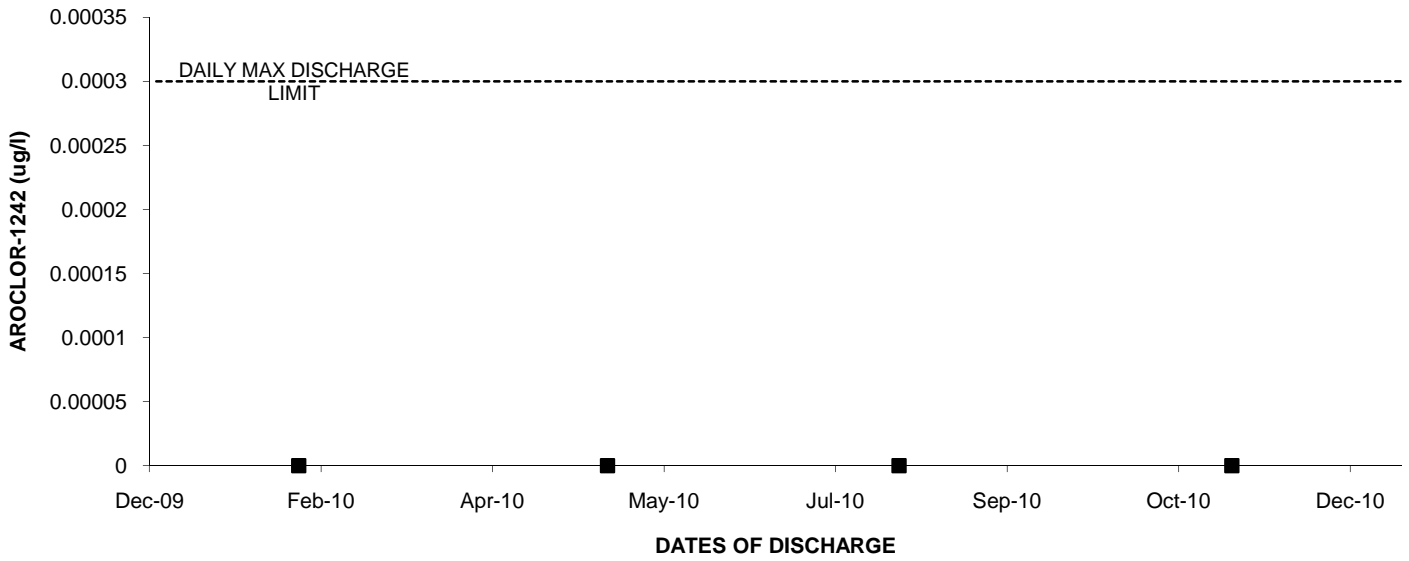
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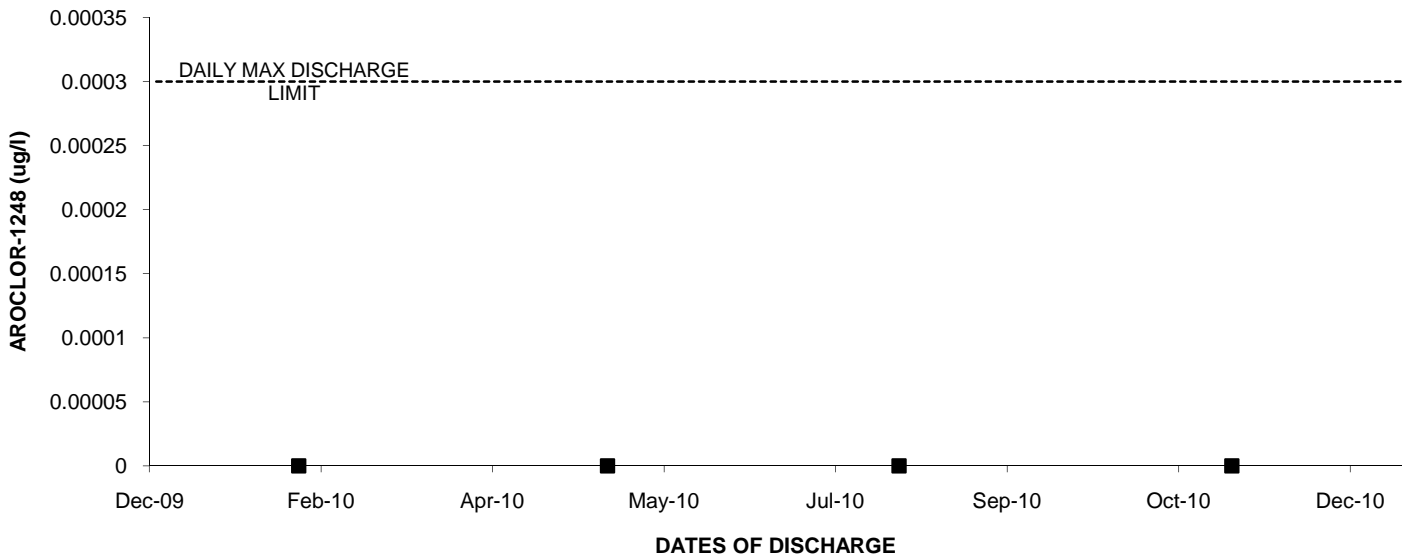
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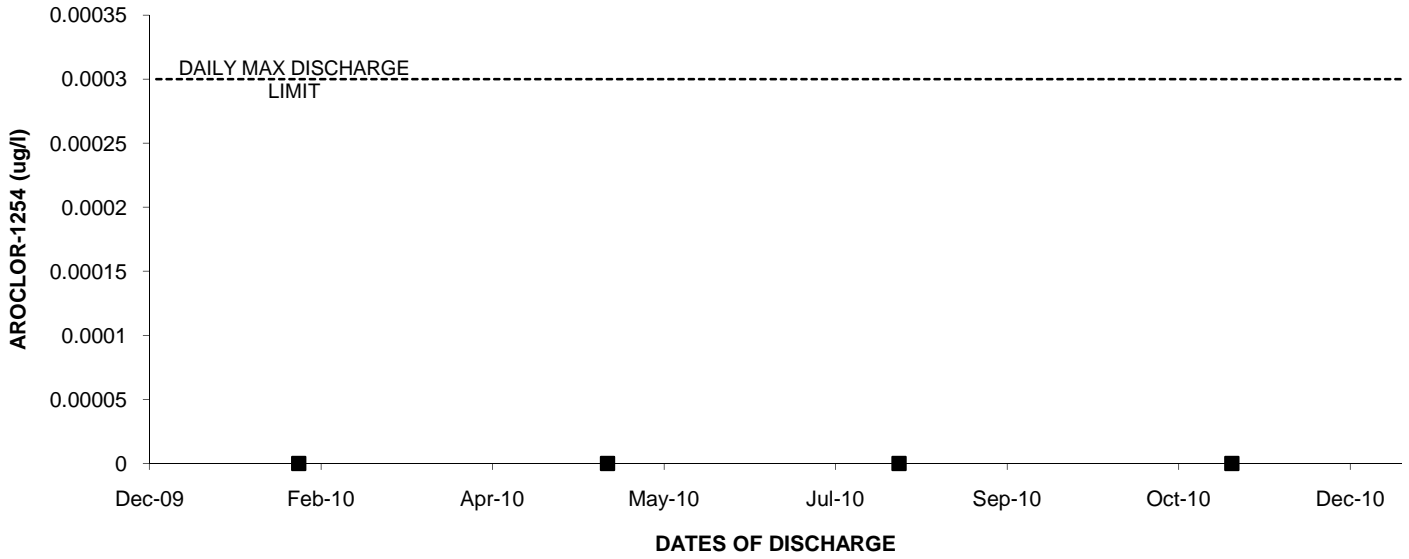


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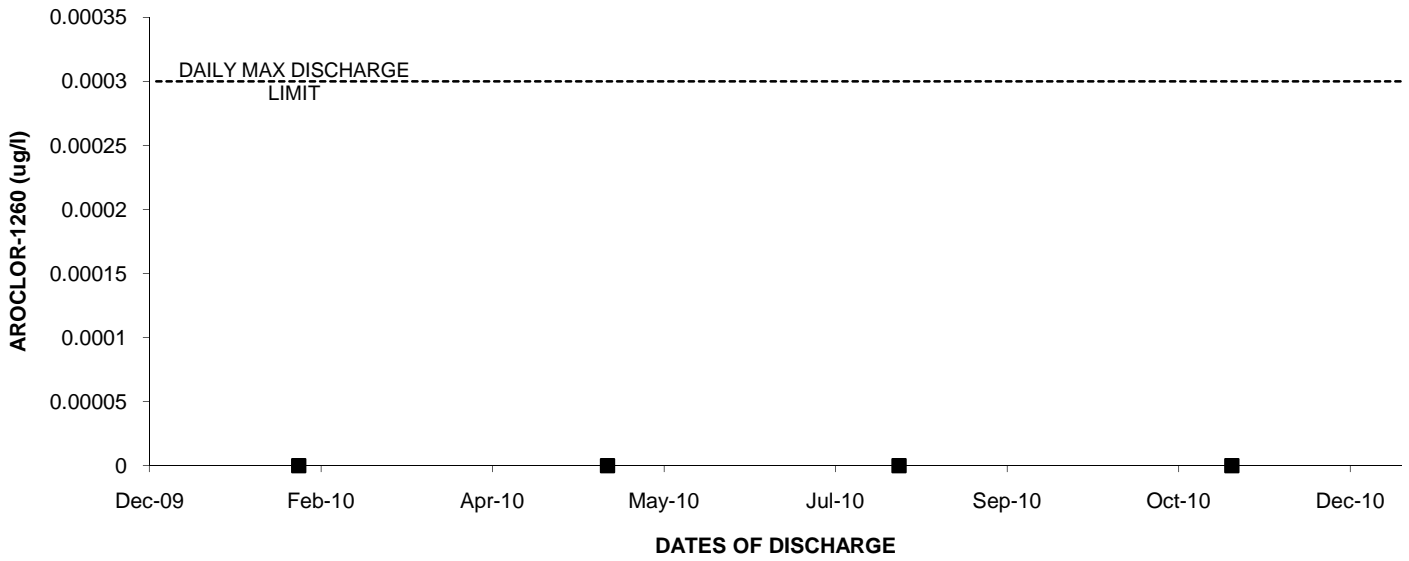




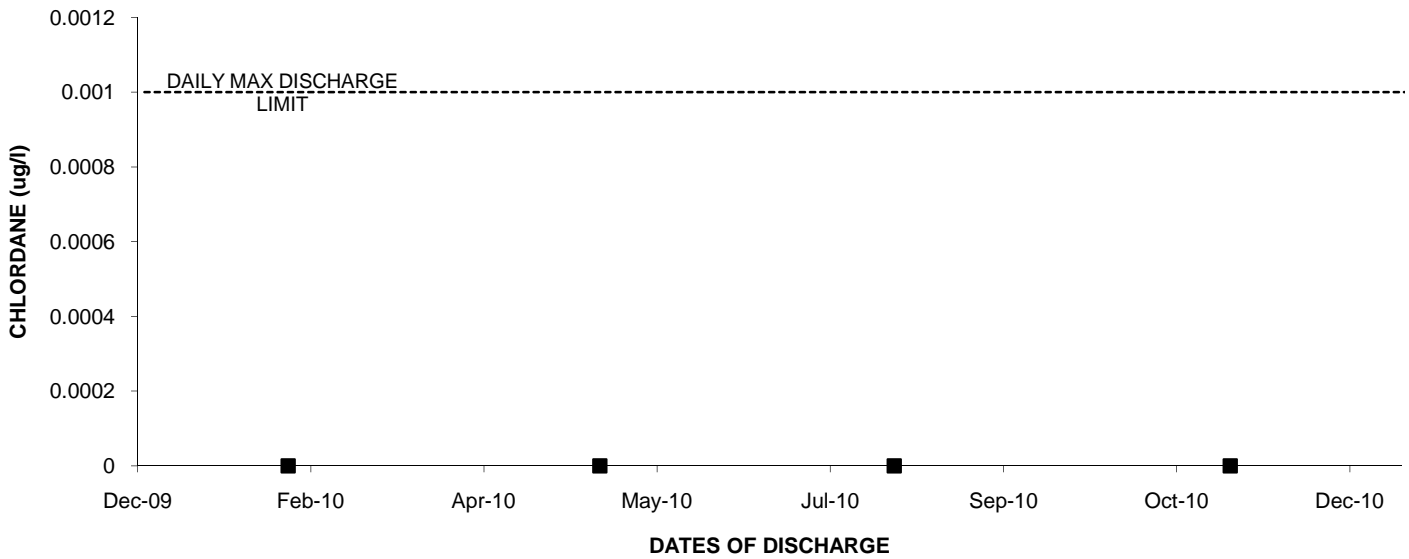
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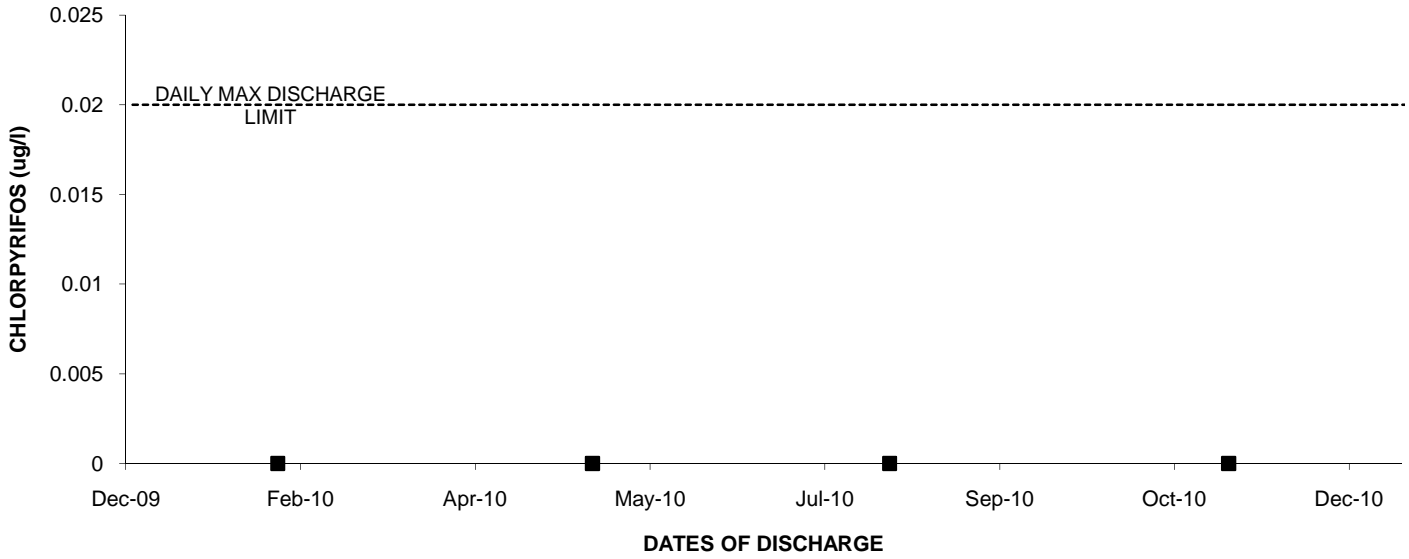
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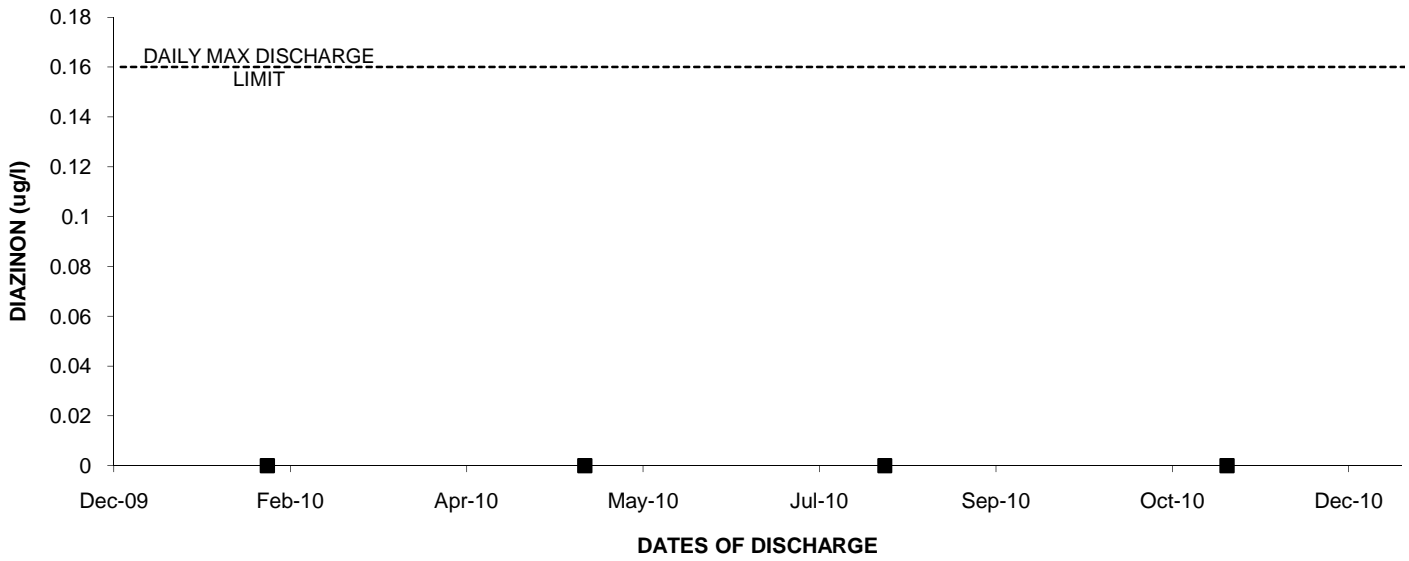
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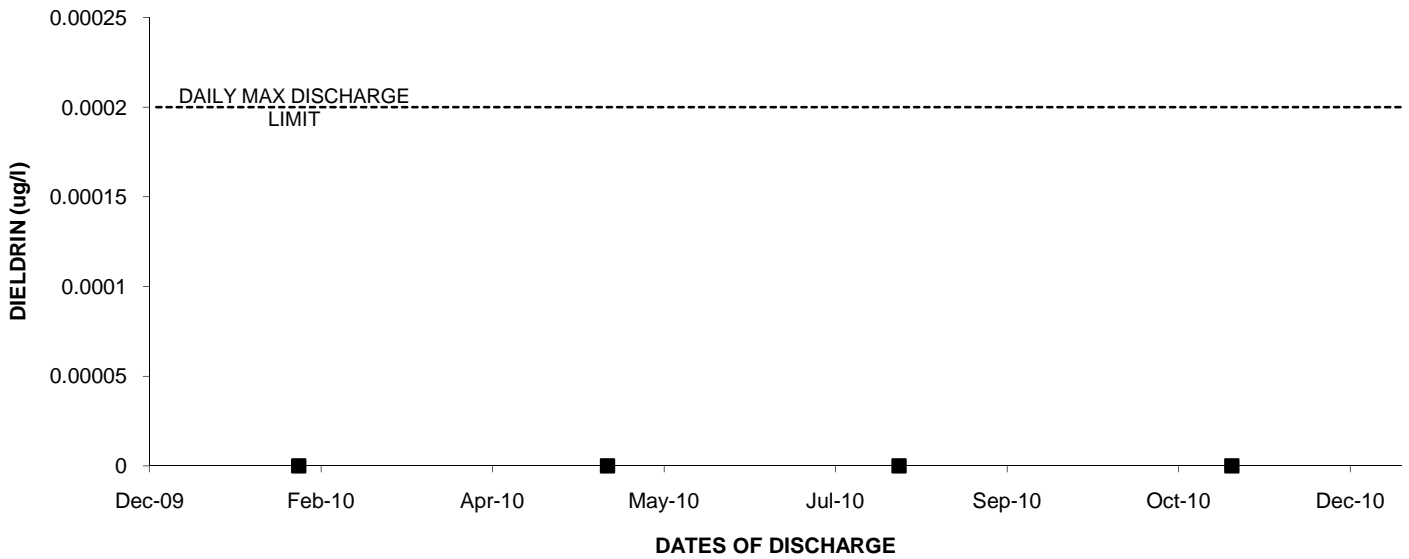
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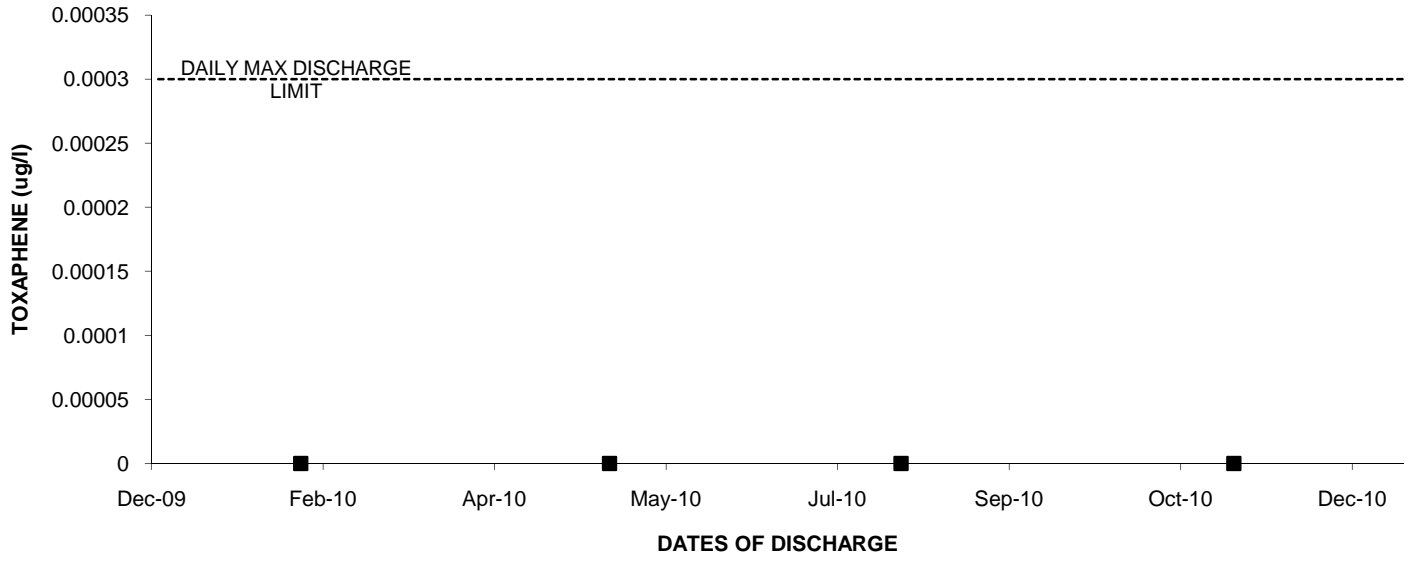
### 2010: Arroyo Simi DIAZINON



### 2010: Arroyo Simi DIELDRIN



2010: Arroyo Simi TOXAPHENE



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