

ARROYO SIMI (Frontier Park Receiving Water)

**ANNUAL 2009 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

January 1 through December 31, 2009

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	2/27/2009		5/7/2009	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
pH (Field)	pH Units	6.5-8.5/-	7.6	*	8.1	*
Temperature	deg. F	-/-	57	*	74	*
Hardness	mg/L	-/-	810	--	720	--
Water Velocity	ft/sec	-/-	0.13	*	0.2	*
Calcium	mg/L	-/-	210	--	190	--
Magnesium	mg/L	-/-	71	--	62	--
4,4'-DDD	ug/L	0.0014/-	ND < 0.0019	C*	ND < 0.0020	*
4,4'-DDE	ug/L	0.001/-	ND < 0.0029	*	ND < 0.0030	*
4,4'-DDT	ug/L	0.001/-	ND < 0.0038	*	ND < 0.0040	*
Aroclor-1016	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Aroclor-1221	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Aroclor-1232	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Aroclor-1242	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Aroclor-1248	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Aroclor-1254	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Aroclor-1260	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*
Chlordane	ug/L	0.001/-	ND < 0.038	*	ND < 0.040	*
Chlorpyrifos	ug/L	0.02/-	ND < 0.10	U	ND < 0.10	U
Diazinon	ug/L	0.16/-	ND < 0.24	U	ND < 0.24	U
Dieldrin	ug/L	0.0002/-	ND < 0.0019	*	ND < 0.0020	*
Toxaphene	ug/L	0.0003/-	ND < 0.24	*	ND < 0.25	*

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January 1 through December 31, 2009

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	8/27/2009		11/4/2009	
			RESULT	VALIDATION QUALIFIER	RESULT	VALIDATION QUALIFIER
pH (Field)	pH Units	6.5-8.5/-	8.1	*	6.8	*
Temperature	deg. F	-/-	78	*	63	*
Hardness	mg/L	-/-	720	--	740	--
Water Velocity	ft/sec	-/-	0.1	*	0.2	*
Calcium	mg/L	-/-	190	--	190	--
Magnesium	mg/L	-/-	59	--	63	--
4,4'-DDD	ug/L	0.0014/-	ND < 0.0020	*	ND < 0.0020	*
4,4'-DDE	ug/L	0.001/-	ND < 0.0030	*	ND < 0.0030	*
4,4'-DDT	ug/L	0.001/-	ND < 0.0040	*	ND < 0.0040	*
Aroclor-1016	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Aroclor-1221	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Aroclor-1232	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Aroclor-1242	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Aroclor-1248	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Aroclor-1254	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Aroclor-1260	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*
Chlordane	ug/L	0.001/-	ND < 0.040	*	ND < 0.040	*
Chlorpyrifos	ug/L	0.02/-	ND < 0.10	U	ND < 0.10	U
Diazinon	ug/L	0.16/-	ND < 0.24	U	ND < 0.24	UJ (H)
Dieldrin	ug/L	0.0002/-	ND < 0.0020	*	ND < 0.0020	*
Toxaphene	ug/L	0.0003/-	ND < 0.25	*	ND < 0.25	*

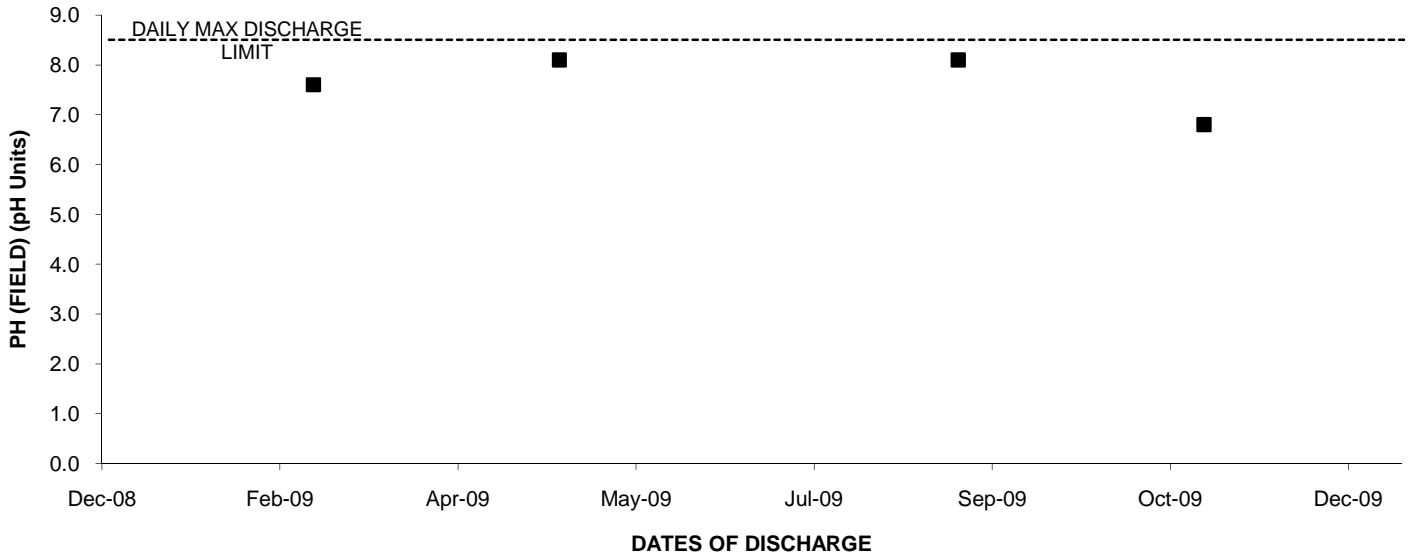
ARROYO SIMI SEDIMENT (Frontier Park Receiving Water)

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

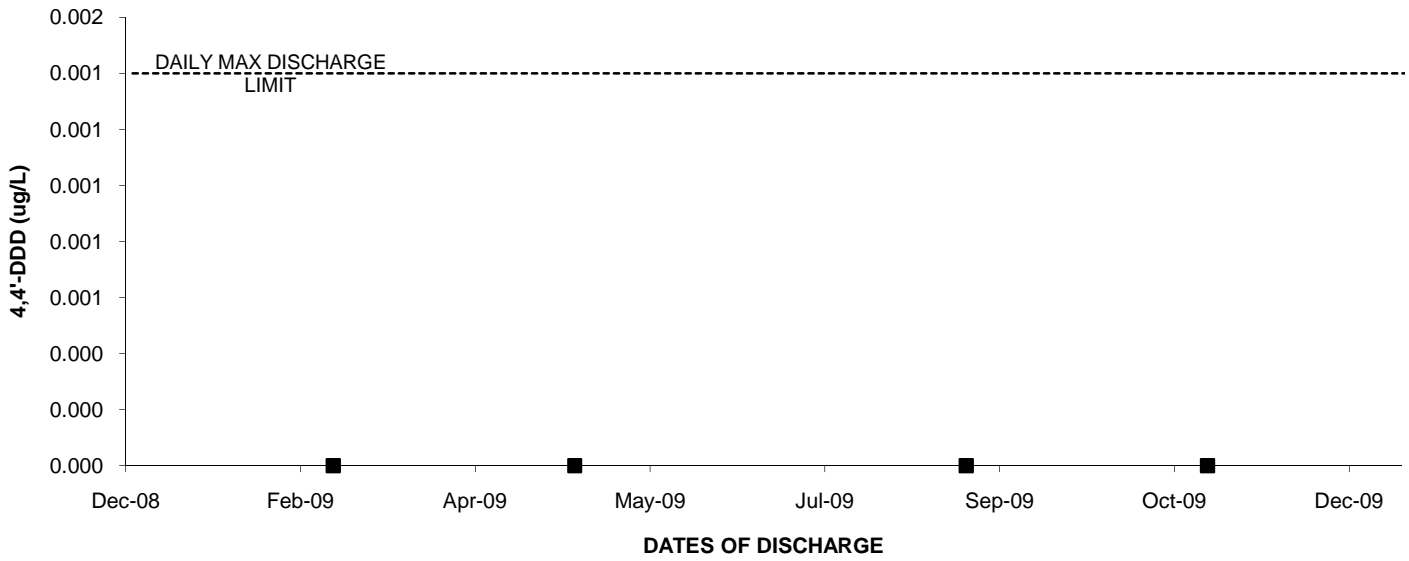
January 1 through December 31, 2009

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	2/27/2009	
			RESULT	VALIDATION QUALIFIER
Ammonia as Nitrogen (N)	mg/Kg	-/-	4.0	J (DNQ)
pH (Field)	pH Units	-/-	7.6	*
Conductivity (Field)	umhos/cm	-/-	2120	*
Dissolved Oxygen (Field)	mg/L	-/-	10.9	*
Temperature	deg F	-/-	57	*
Total Organic Carbon	mg/kg	-/-	ND < 1000	*
Water Velocity	ft/sec	-/-	0.13	*
Percent Moisture	%	-/-	19	*
4,4'-DDD	ug/kg	14/-	ND < 1.5	C-1*
4,4'-DDE	ug/kg	170/-	ND < 1.5	*
4,4'-DDT	ug/kg	25/-	ND < 1.5	C-2*
Aroclor-1016	ug/kg	25700/-	ND < 6.7	*
Aroclor-1221	ug/kg	25700/-	ND < 6.7	*
Aroclor-1232	ug/kg	25700/-	ND < 6.7	*
Aroclor-1242	ug/kg	25700/-	ND < 6.7	*
Aroclor-1248	ug/kg	25700/-	ND < 6.7	*
Aroclor-1254	ug/kg	25700/-	ND < 6.7	*
Aroclor-1260	ug/kg	25700/-	ND < 6.7	*
Chlordane	ug/kg	3.3/-	ND < 10	*
Dieldrin	ug/kg	1.1/-	ND < 1.5	*
Toxaphene	ug/kg	230/-	ND < 50	*
Sediment toxicity	%	-/-	97	*
Bivalve Embryo toxicity	%	-/-	100	*
PARTICLE SIZE DISTRIBUTION				
Gravel	%	-/-	5.7	*
Coarse Sand	%	-/-	9.5	*
Medium Sand	%	-/-	68.3	*
Fine Sand	%	-/-	13.3	*
Silt	%	-/-	2.3	*
Clay	%	-/-	1.0	*

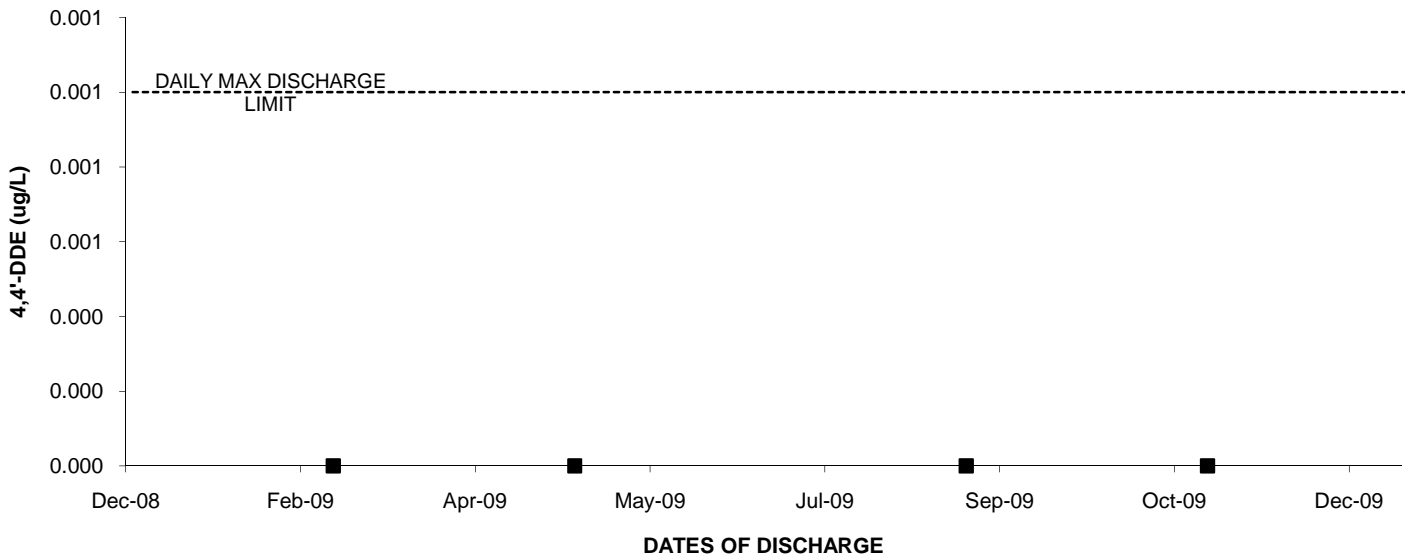
2009: Arroyo Simi PH (FIELD)



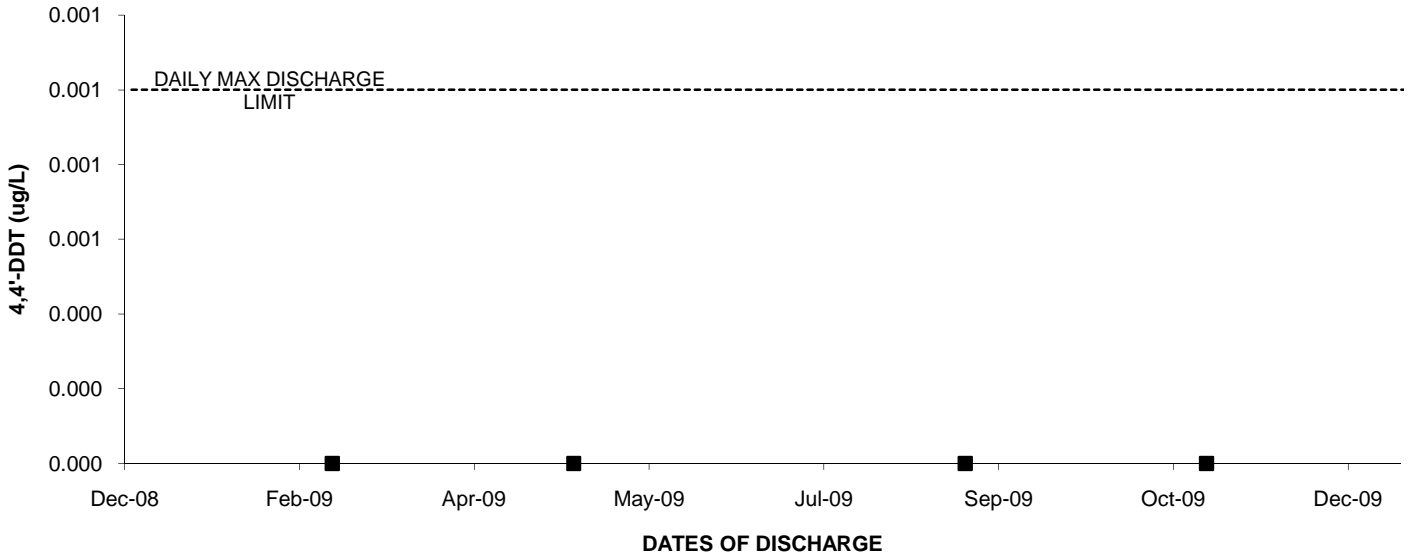
2009: Arroyo Simi 4,4'-DDD



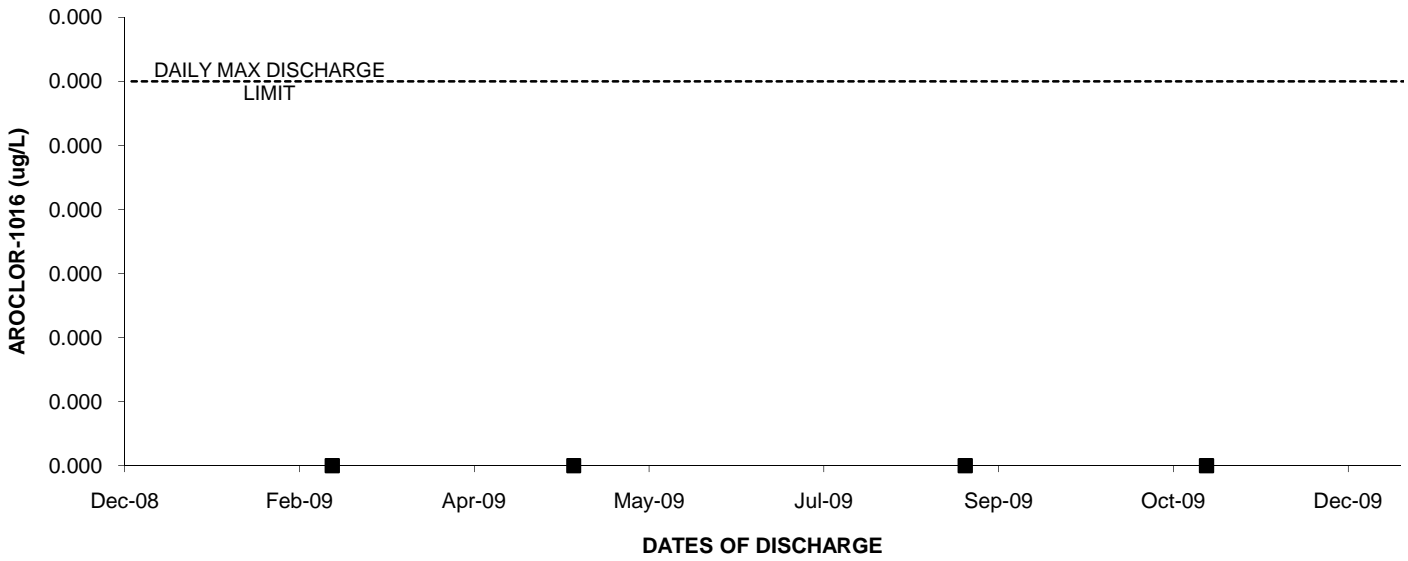
2009: Arroyo Simi 4,4'-DDE



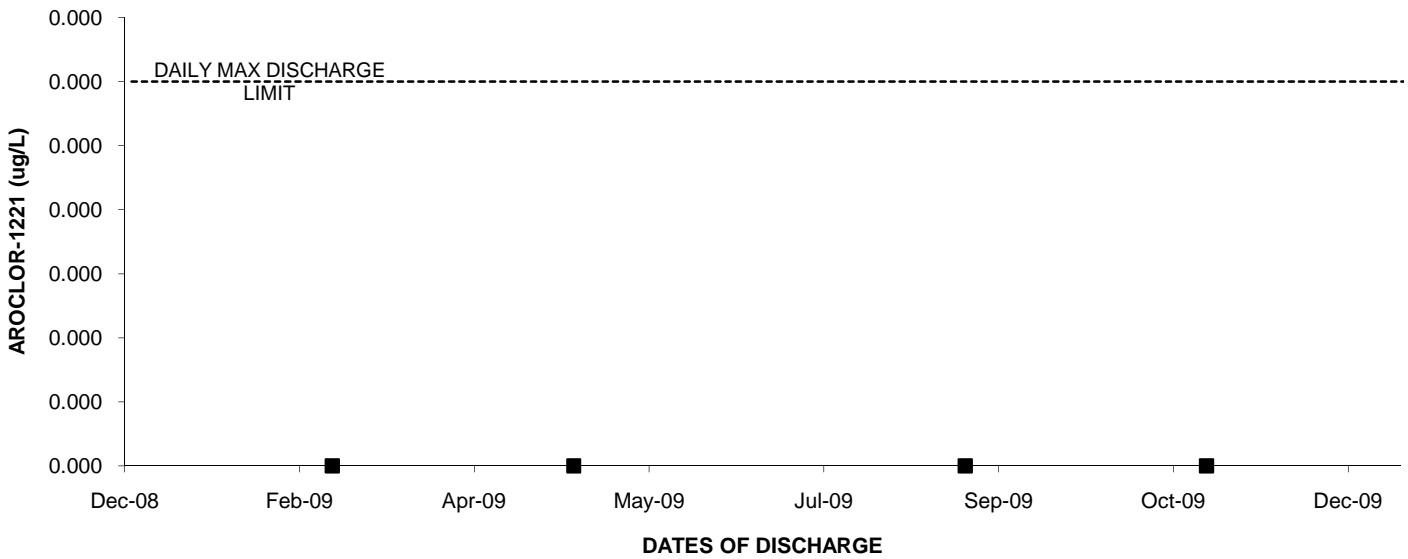
2009: Arroyo Simi 4,4'-DDT



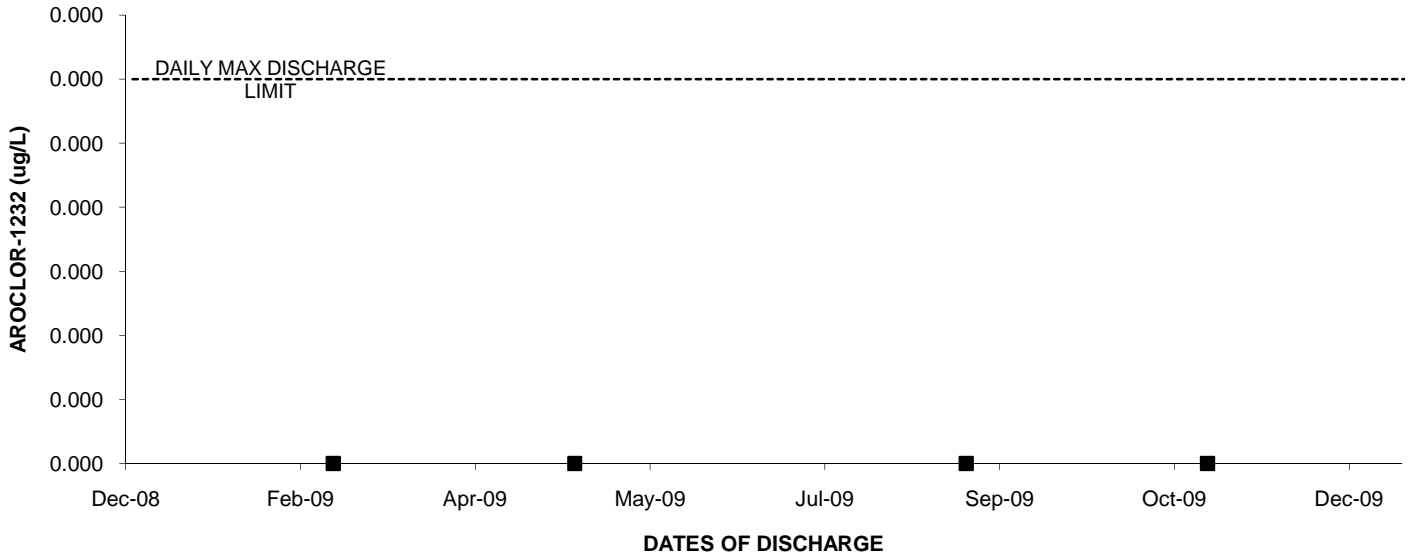
2009: Arroyo Simi AROCLOR-1016



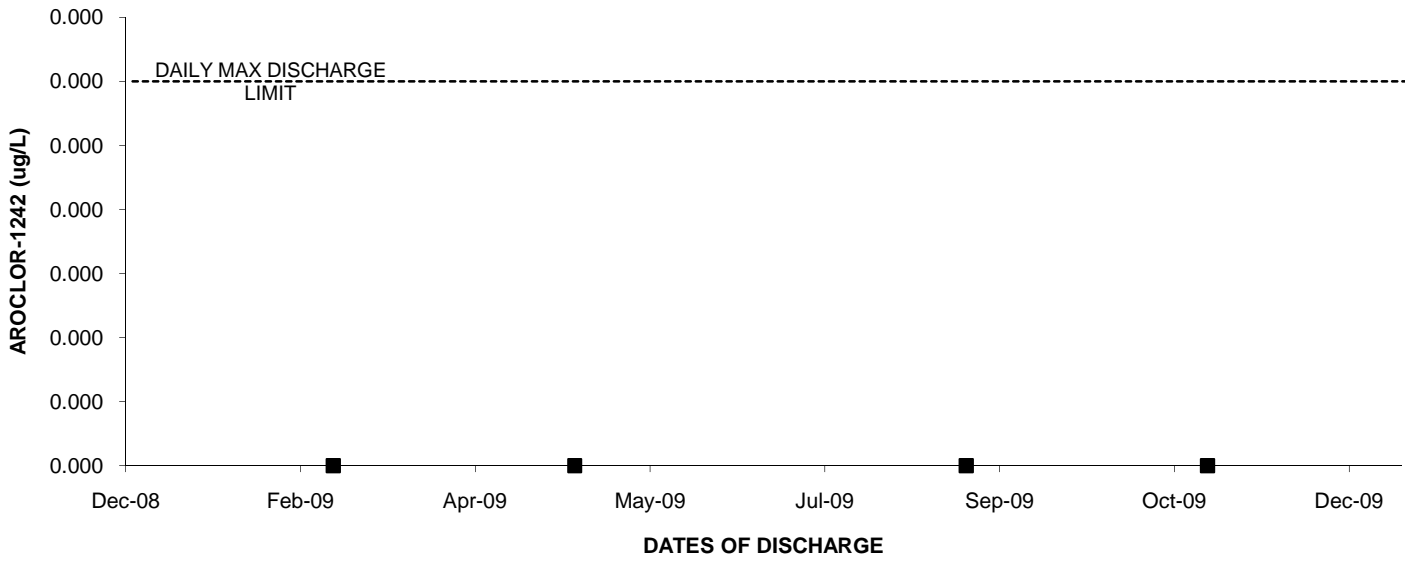
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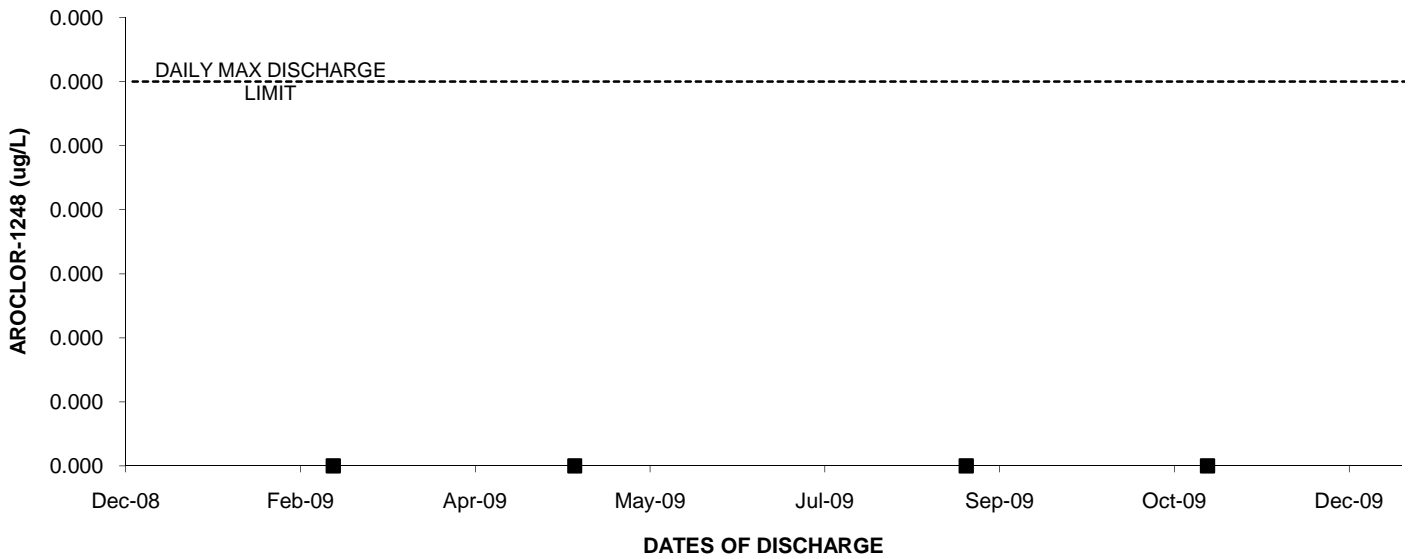
2009: Arroyo Simi AROCLOR-1232



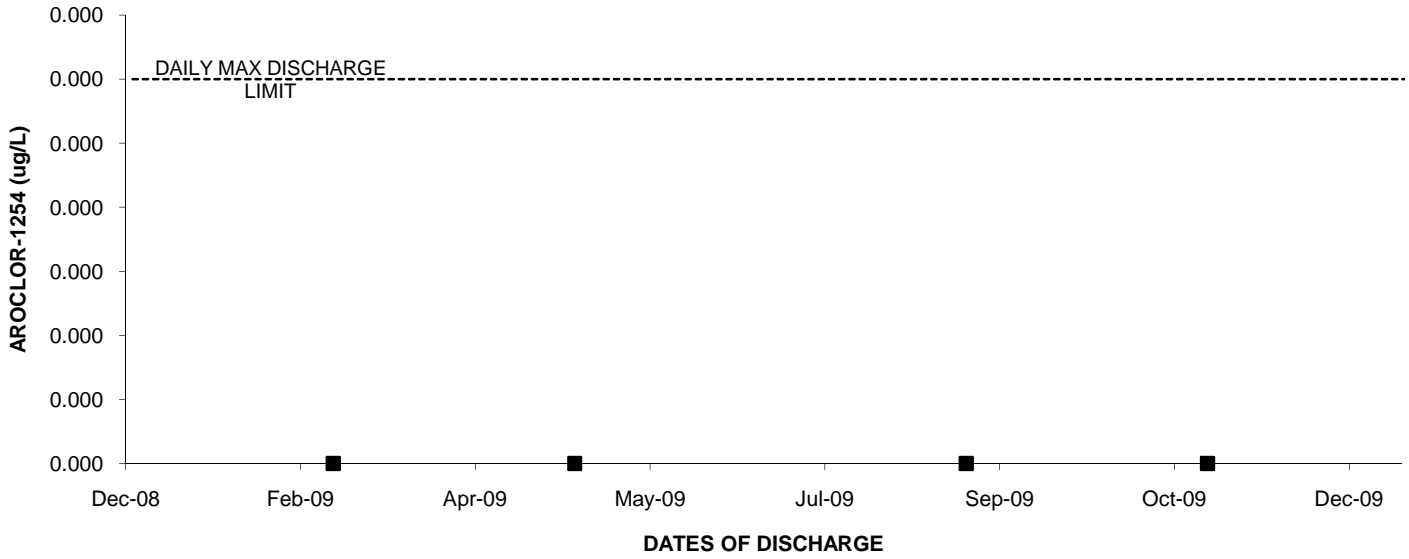
2009: Arroyo Simi AROCLOR-1242



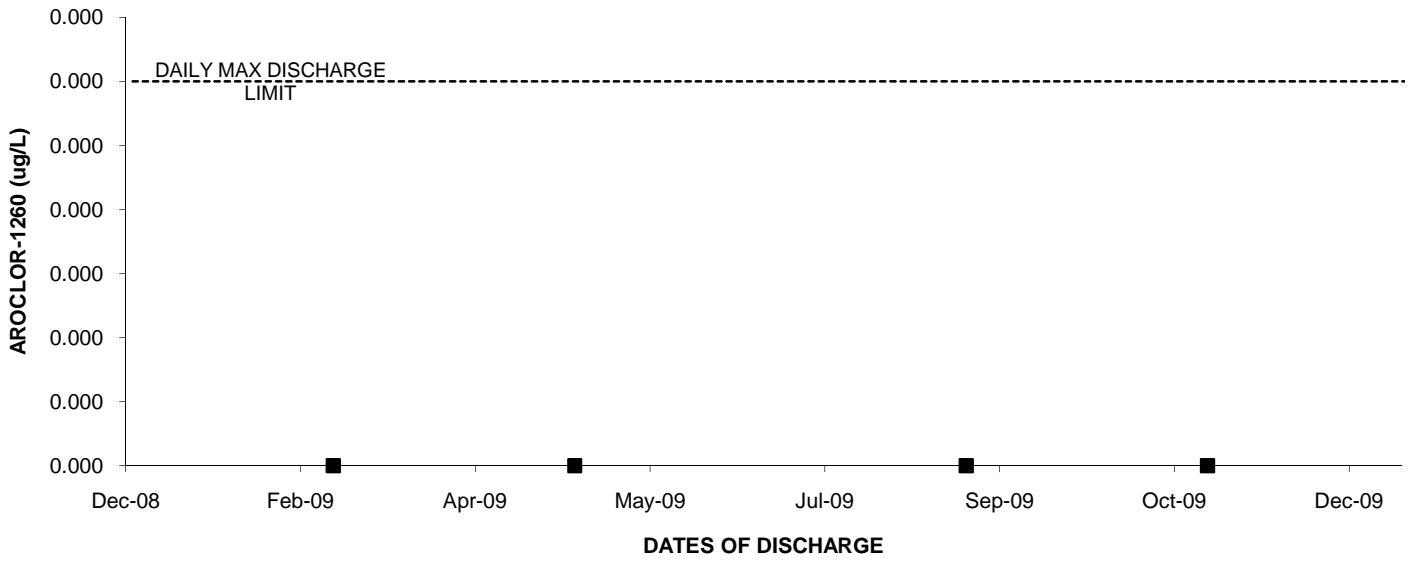
2009: Arroyo Simi AROCLOR-1248



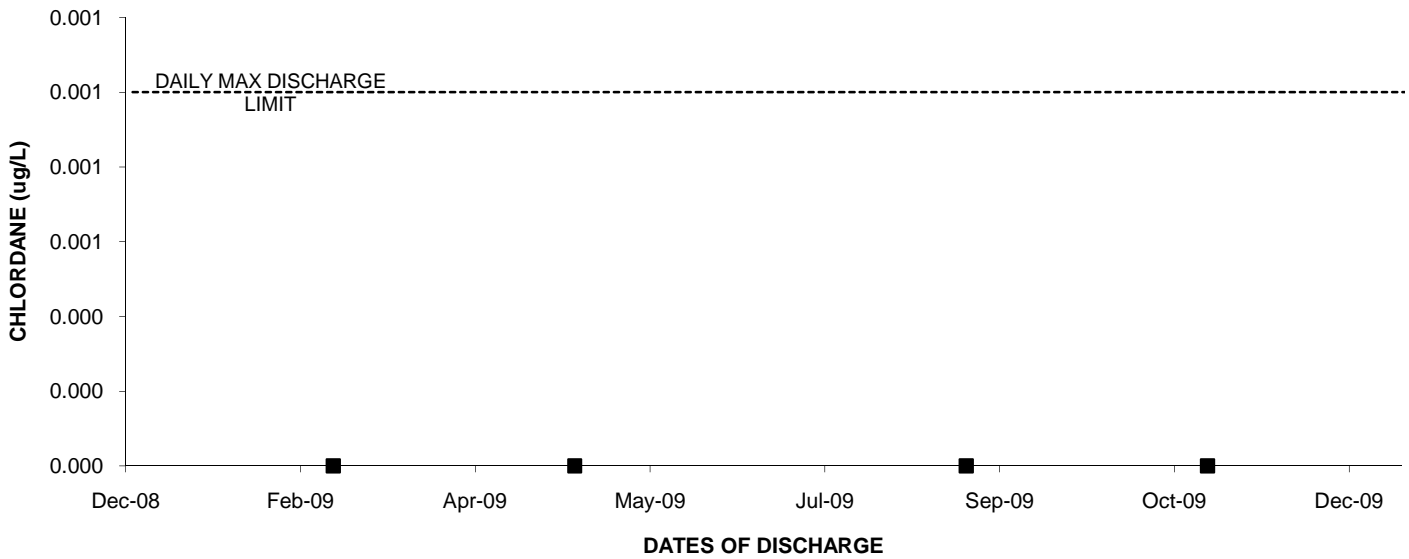
2009: Arroyo Simi AROCLOR-1254



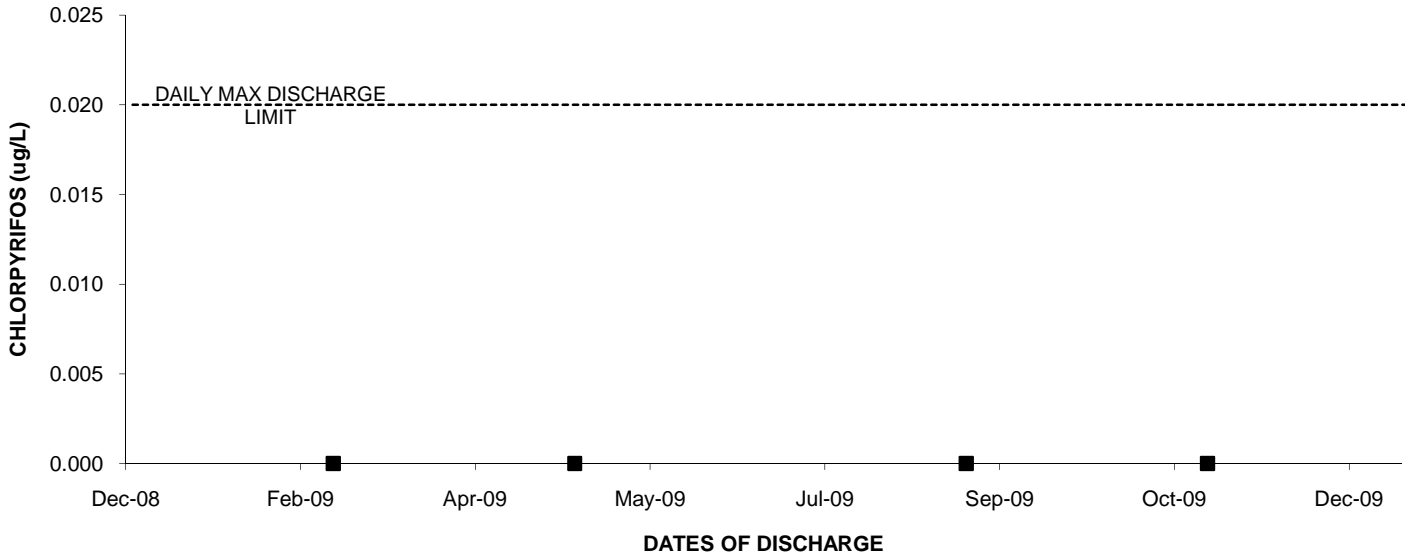
2009: Arroyo Simi AROCLOR-1260



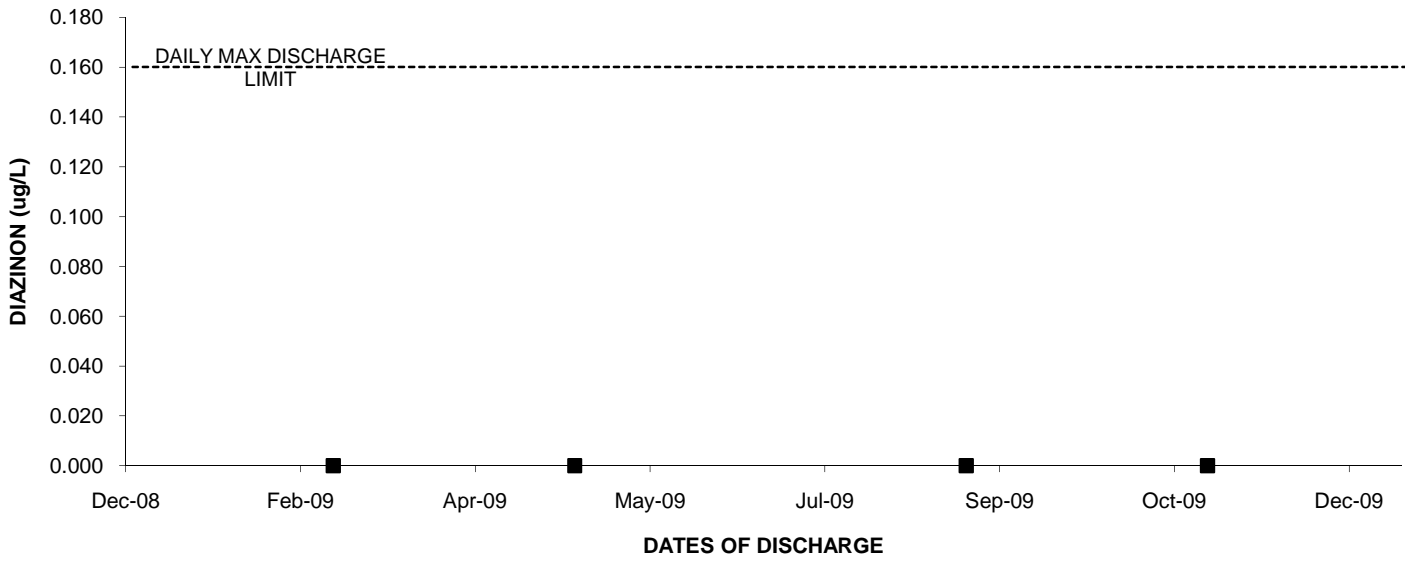
2009: Arroyo Simi CHLORDANE



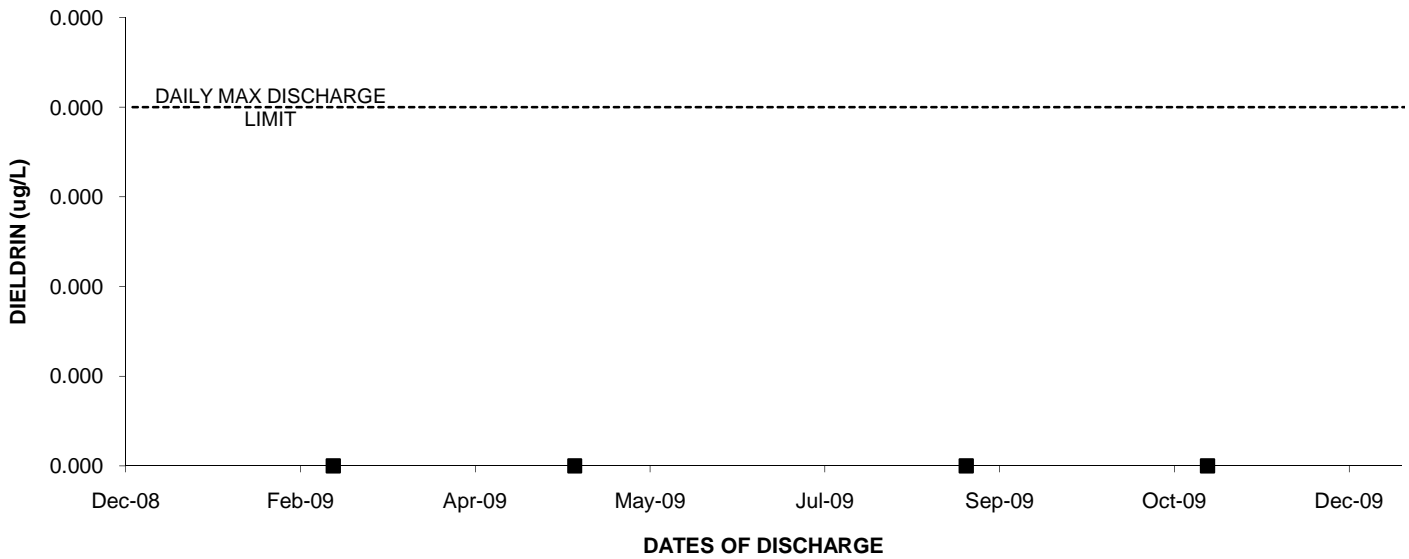
2009: Arroyo Simi CHLORPYRIFOS



2009: Arroyo Simi DIAZINON



2009: Arroyo Simi DIELDRIN



2009: Arroyo Simi TOXAPHENE

