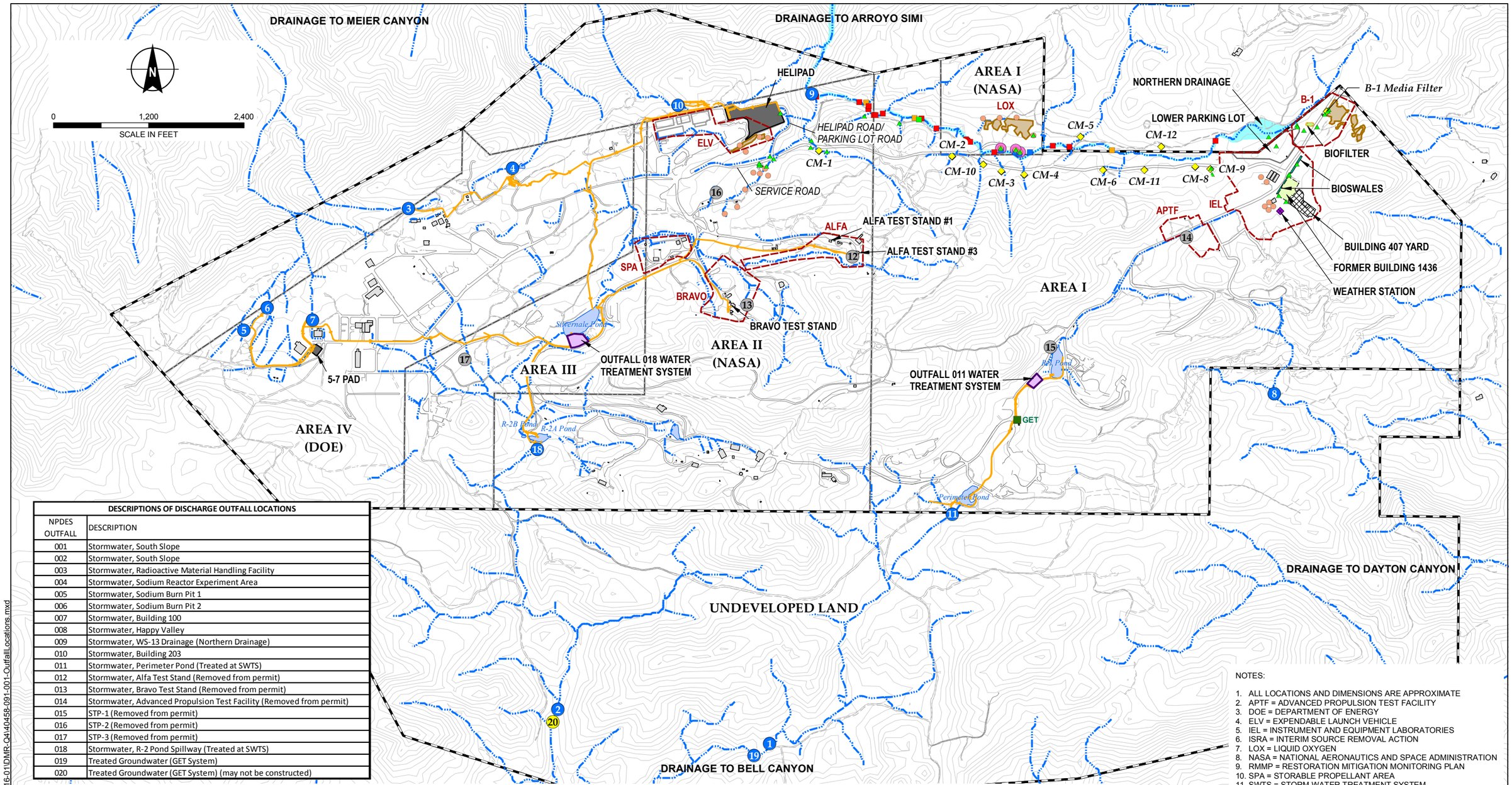


DESCRIPTIONS OF DISCHARGE OUTFALL LOCATIONS	
NPDES OUTFALL	DESCRIPTION
001	Stormwater, South Slope
002	Stormwater, South Slope
003	Stormwater, Radioactive Material Handling Facility
004	Stormwater, Sodium Reactor Experiment Area
005	Stormwater, Sodium Burn Pit 1
006	Stormwater, Sodium Burn Pit 2
007	Stormwater, Building 100
008	Stormwater, Happy Valley
009	Stormwater, WS-13 Drainage (Northern Drainage)
010	Stormwater, Building 203
011	Stormwater, Perimeter Pond (Treated at SWTS)
012	Stormwater, Alfa Test Stand (Removed from permit)
013	Stormwater, Bravo Test Stand (Removed from permit)
014	Stormwater, Advanced Propulsion Test Facility (Removed from permit)
015	STP-1 (Removed from permit)
016	STP-2 (Removed from permit)
017	STP-3 (Removed from permit)
018	Stormwater, R-2 Pond Spillway (Treated at SWTS)
019	Treated Groundwater (GET System)
020	Treated Groundwater (GET System) (may not be constructed)

NOTES:

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
2. APTF = ADVANCED PROPULSION TEST FACILITY
3. DOE = DEPARTMENT OF ENERGY
4. ELV = EXPENDABLE LAUNCH VEHICLE
5. IEL = INSTRUMENT AND EQUIPMENT LABORATORIES
6. ISRA = INTERIM SOURCE REMOVAL ACTION
7. LOX = LIQUID OXYGEN
8. NASA = NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
9. RMMP = RESTORATION MITIGATION MONITORING PLAN
10. SPA = STORABLE PROPELLANT AREA
11. SWTS = STORM WATER TREATMENT SYSTEM

LEGEND

- ACTIVE NPDES OUTFALL LOCATION
- FORMER NPDES OUTFALL LOCATION
- POSSIBLE FUTURE NPDES OUTFALL LOCATION
- SLOPE DRAIN DISCHARGE POINT TO NORTHERN DRANAGE
- CULVERT MODIFICATION
- ISRA PERFORMANCE MONITORING LOCATION
- BMP MONITORING LOCATION
- GROUNDWATER EXTRACTION AND TREATMENT (GET) SYSTEM
- STORMWATER TREATMENT SYSTEM
- STUDY AREA

RMMP LOCATION

- CHECK STRUCTURE - MOSTLY NATURAL SANDSTONE, SOME RIP RAP
- CHECK STRUCTURE - RIP RAP
- CHECK STRUCTURE - VEGETATED RIP RAP
- SLOPE DRAIN WITH UNDERLYING CHECK STRUCTURE AND ENERGY DISSIPATING GRAVEL AT INFLUENT END

- DRAINAGE
- PAVED ROAD
- DIRT ROAD
- STORMWATER CONVEYANCE PIPELINE WITH FLOW DIRECTION
- 25' ELEVATION CONTOUR
- ISRA EXCAVATION BOUNDARY
- BIOFILTER
- BIOSWALE
- NORTHERN DRAINAGE
- SURFACE WATER POND
- EXISTING BUILDING/STRUCTURE
- CONCRETE SLAB IN PLACE
- SANTA SUSANA SITE PROPERTY BOUNDARY
- ADMINISTRATIVE AREA BOUNDARY

HALEY ALDRICH

NPDES PERMIT COMPLIANCE FOURTH QUARTER 2015
DISCHARGE MONITORING REPORT
THE BOEING COMPANY
VENTURA COUNTY, CALIFORNIA

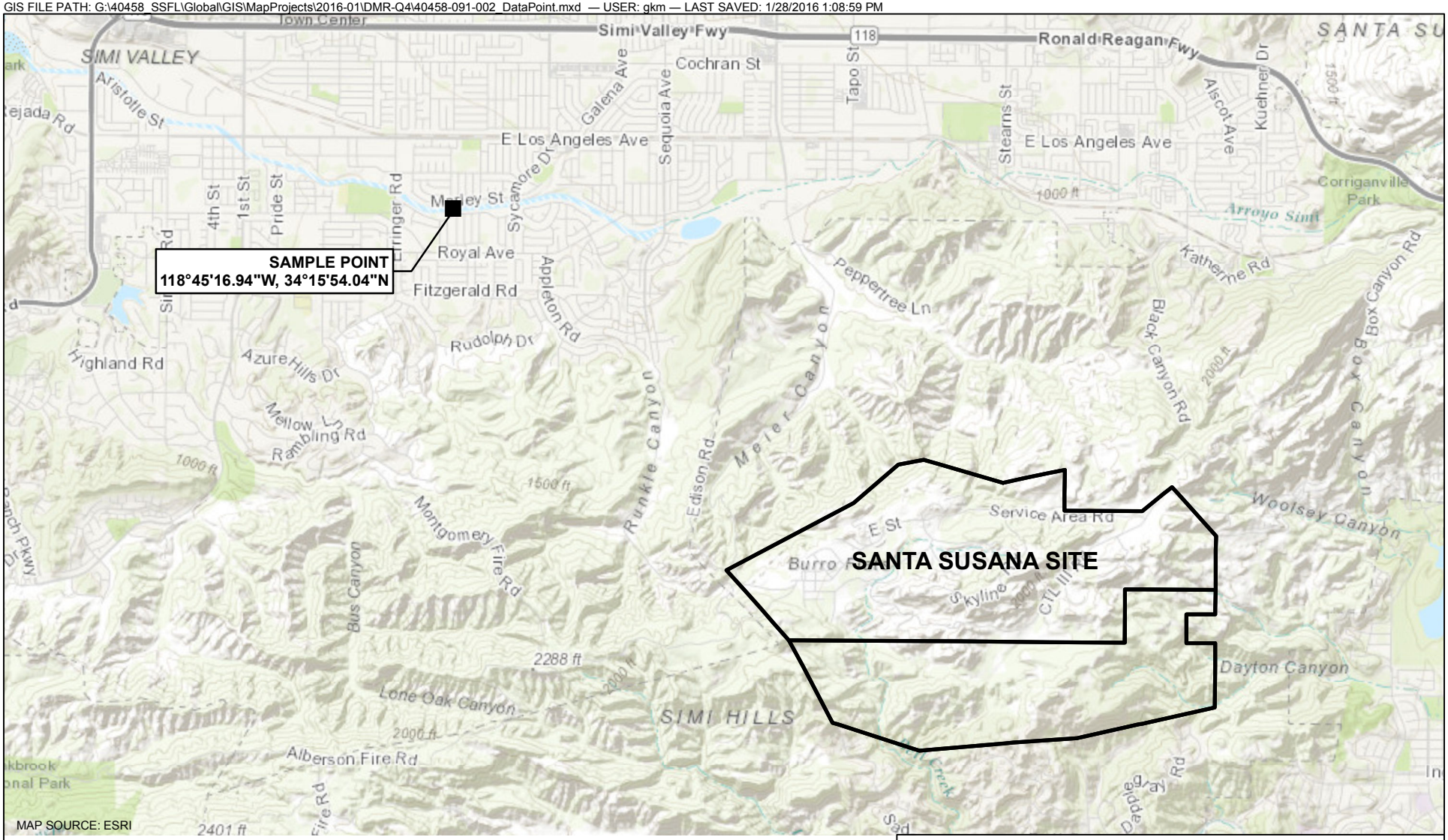
SITE MAP WITH STORMWATER COLLECTION AND CONVEYANCE SYSTEM AND SITE FEATURES

SCALE: AS SHOWN
FEBRUARY 2016

FIGURE 1

G:\40458_SSFL\Global\GIS\MapProjects\2016-01\DMR-Q4\40458-091-001-OutfallLocations.mxd

GIS FILE PATH: G:\40458_SSFL\Global\GIS\MapProjects\2016-01\DMR-Q4\40458-091-002_DataPoint.mxd — USER: gkm — LAST SAVED: 1/28/2016 1:08:59 PM



HALEY ALDRICH

NPDES PERMIT COMPLIANCE FOURTH QUARTER 2015
DISCHARGE MONITORING REPORT
THE BOEING COMPANY
VENTURA COUNTY, CALIFORNIA

ARROYO SIMI-FRONTIER PARK (RSW-002) SAMPLING LOCATION

FEBRUARY 2016

FIGURE 2

APPENDIX A

Fourth Quarter 2015 Rainfall Data Summary

TABLE A
DAILY RAINFALL SUMMARY

THE BOEING COMPANY
NPDES PERMIT CA0001309

Station: AREA 1
Parameter: Rain
Month/Year: October 2015

HOUR OF THE DAY

DAY OF THE MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.44
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 p	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Flags: p = Power Failure - Invalid Hour. The Sage Ranch rain gauge confirmed that no rainfall was recorded.
Notes: The Sage Ranch rain gauge data is located at: http://www.vcwatershed.net/hydrodata/php/getstation.php?siteid=272#top

TABLE A
DAILY RAINFALL SUMMARY

THE BOEING COMPANY
NPDES PERMIT CA0001309

Station: AREA 1
Parameter: Rain
Month/Year: November 2015

HOUR OF THE DAY

DAY OF THE MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 p	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Flags: p = Power Failure - Invalid Hour. The onsite B1436 rain gauge confirmed that no rainfall was recorded.

TABLE A
DAILY RAINFALL SUMMARY

THE BOEING COMPANY
NPDES PERMIT CA0001309

Station: AREA 1
Parameter: Rain
Month/Year: December 2015

HOUR OF THE DAY

DAY OF THE MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.06	0.00	0.00	0.00	0.00	0.00	0.11
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.08	0.05	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.16
20	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03	0.05	0.03	0.01	0.03	0.02	0.20
22	0.01	0.01	0.04	0.03	0.02	0.02	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

APPENDIX B

Fourth Quarter 2015 Liquid Waste Shipment Summary Table

TABLE B
LIQUID WASTE SHIPMENTS

FOURTH QUARTER 2015 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

DATE SHIPPED	MANIFEST OR JOB TRACKING NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
10/1/2015	010386118JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	16	P	Clean Harbors Environmental Services Inc.	Clean Harbors - Aragonite LLC 11600 North Aptus Road, Grantsville, UT 34029
10/1/2015		WASTE FLAMMABLE LIQUIDS (INK, PVC PRIMMER)	20	P		
10/1/2015		WASTE TOXIC LIQUIDS, ORGANIC (ADHESIVE, LEAD SOLDER	10	P		
10/1/2015	Z2495	NON HAZARDOUS WASTE LIQUID (WATER)	748	P		Clean Harbors - Grassy Mountain LLC 3 Miles East 7 Miles North of Knotts, Grantsville, UT 34029
10/5/2015	014500298JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5000	G	Environmental Recovery Services, Inc.	Evoqua Water Technologies LLC 5375 South Boyle Avenue, Los Angeles, CA 90058
10/5/2015	014500299JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5000	G		
10/8/2015	014500300JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5000	G		
10/8/2015	014500301JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5000	G		
10/8/2015	014500302JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4000	G		
10/14/2015	009114266FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	1743	P	Clean Harbors Environmental Services Inc.	Clean Harbors - Aragonite LLC 11600 North Aptus Road, Grantsville, UT 34029
10/14/2015		NON RCRA HAZARDOUS WASTE LIQUIDS (ALUMINUM SULFATE SOLUTION)	832	P		
10/14/2015		NON RCRA HAZARDOUS WASTE LIQUIDS (POTASSIUM PERMANGANATE)	19	P		
10/14/2015		NON RCRA HAZARDOUS WASTE LIQUIDS (HYDROGEN PEROXIDE)	9	P		
10/14/2015	009114267FLE	NON RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	36	P		Clean Harbors Deer Park, LLC 2027 Independence Parkway South, La Porte, TX 77571
10/14/2015	Z2606	NON HAZARDOUS WASTE LIQUID (WATER)	592	P		Clean Harbors - Grassy Mountain LLC 3 Miles East 7 Miles North of Knotts, Grantsville, UT 34029
10/20/2015	014500303JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4600	G	Environmental Recovery Services, Inc.	Evoqua Water Technologies LLC 5375 South Boyle Avenue, Los Angeles, CA 90058
11/4/2015	014871552JJK	NON RCRA HAZARDOUS WASTE LIQUIDS (OIL)	520	G	Black Gold Industries	DeMenno/Kerdoon 2000 N. Alameda St. Compton, CA 90222
11/10/2015	008428359FLE	NON RCRA HAZARDOUS WASTE LIQUIDS (TRANSFORMER OIL 2-49 PPM PCB)	5000	P	Clean Harbors Environmental Services Inc.	Clean Harbors Los Angeles LLC 5756 Alba Street, Los Angeles, CA 90058
11/10/2015	008428359FLE	NON RCRA HAZARDOUS WASTE LIQUIDS (TRANSFORMER OIL 2-49 PPM PCB)	1350	P		Clean Harbors Los Angeles LLC 5756 Alba Street, Los Angeles, CA 90058
11/10/2015	010386120JJK	HAZARDOUS WASTE LIQUID (WATER, TRICHLOROETHYLENE)	140	P		Clean Harbors Deer Park, LLC 2027 Independence Parkway South, La Porte, TX 77571
11/10/2015		HAZARDOUS WASTE LIQUID (WATER, TRICHLOROETHYLENE)	2330	P		
11/10/2015	010386125JJK	WASTE FLAMMABLE LIQUIDS (VOAs, METHANOL)	36	P		Clean Harbors - Aragonite LLC 11600 North Aptus Road, Grantsville, UT 34029
11/10/2015		WASTE CORROSIVE LIQUID, ACIDIC, ORGANIC (ASCORBIC ACID SOLUTION, HYDROCHLORIC ACID SOLUTIONS)	10	P		
11/10/2015		HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	805	P		
11/10/2015	010386125JJK	HAZARDOUS WASTE LIQUID (WATER, METHANOL)	14	P	Clean Harbors Environmental Services Inc.	Clean Harbors - Aragonite LLC 11600 North Aptus Road, Grantsville, UT 34029
11/10/2015		HAZARDOUS WASTE LIQUID (WATER, METHANOL)	269	P		
11/10/2015		NON RCRA HAZARDOUS WASTE LIQUIDS (CALIBRATION FLUIDS, PLASTIC BOTTLES)	3	P		
11/10/2015		NON RCRA HAZARDOUS WASTE LIQUIDS (FORMALDEHYDE POTASSIUM HYDROGEN PHTHALATE)	4	P		

TABLE B
LIQUID WASTE SHIPMENTS

FOURTH QUARTER 2015 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

DATE SHIPPED	MANIFEST OR JOB TRACKING NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
11/10/2015	010386125JJK	NON RCRA HAZARDOUS WASTE LIQUIDS (POTASSIUM SROMIDE SOLUTION)	24	P	Clean Harbors Environmental Services Inc.	Clean Harbors - Aragonite LLC 11600 North Aptus Road, Grantsville, UT 34029
11/10/2015	Z2882	NON HAZARDOUS WASTE LIQUID (WATER)	1450	P	Clean Harbors Environmental Services Inc.	Clean Harbors - Grassy Mountain LLC 3 Miles East 7 Miles North of Knotts, Grantsville, UT 34029
11/10/2015		NON HAZARDOUS WASTE LIQUID (WATER)	306	P		
11/10/2015	Z2883	NON HAZARDOUS WASTE LIQUID	5	P		
11/23/2015	014500305JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	5000	G	Environmental Recovery Services, Inc.	Evoqua Water Technologies LLC 5375 South Boyle Avenue, Los Angeles, CA 90058
12/3/2015	Z3113	NON DOT REGULATED (CALIBRATION FLUID)	30	P	Clean Harbors Environmental Services Inc.	Clean Harbors Wilmington LLC 1737 East Denni Street, Wilmington, CA 90744
12/3/2015	Z3114	NON HAZARDOUS WASTE LIQUID (WATER)	32	P		Clean Harbors - Grassy Mountain LLC 3 Miles East 7 Miles North of Knotts, Grantsville, UT 34029
12/3/2015		NON HAZARDOUS WASTE LIQUID (WATER)	1869	P		
12/16/2015	009042321FLE	NON RCRA HAZARDOUS WASTE LIQUIDS (IRON REAGENT, WATER)	136	P		Clean Harbors - Aragonite LLC 11600 North Aptus Road, Grantsville, UT 34029
12/16/2015		HAZARDOUS WASTE LIQUID (CHROMIUM, TETRACHLOROETHYLENE)	4	P		
12/16/2015	Z3268	NON HAZARDOUS WASTE LIQUID (WATER)	1262	P		Clean Harbors - Grassy Mountain LLC 3 Miles East 7 Miles North of Knotts, Grantsville, UT 34029
12/16/2015		NON HAZARDOUS WASTE LIQUID (WATER)	30	P		

TABLE B
LIQUID WASTE SHIPMENTS

FOURTH QUARTER 2015 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

DATE SHIPPED	MANIFEST OR JOB TRACKING NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
10/6/2015	13713	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G	Southwest Processors Inc. 4120 Bandini Blvd. Vernon, CA 90058	LACSD
10/6/2015	13714	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
10/20/2015	13791	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
10/20/2015	13792	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
11/3/2015	13855	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
11/3/2015	13856	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
11/17/2015	13923	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
11/17/2015	13924	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
12/1/2015	13997	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
12/1/2015	13998	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
12/16/2015	13078	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
12/16/2015	37879	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
12/22/2015	13105	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		

Notes:
P = Pounds
G = Gallons

APPENDIX C

Fourth Quarter 2015 Discharge Monitoring Data Summary Tables

FOURTH QUARTER 2015
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

Notes:

1. TCDD TEQs for the purpose of determining permit compliance are the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). The resulting compliance TCDD TEQ does not include those congener concentrations that are reported as DNQ, as specified on Page 26 of the NPDES permit.

2. Temperature, total residual chlorine (TRC), dissolved oxygen (DO), and pH are measured in the field and are not validated.

3. All of the following abbreviations and/or notes may not occur on every table.

4. pH and temperature are identified on the table as daily maximum discharge limits. The NPDES permit limit has an instantaneous minimum (6.5) and maximum (8.5) for pH and an instantaneous maximum of 86^{o}F for temperature.

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition. Radiological results are presented as activity plus or minus counting uncertainty.
$	Reported result or other information was incorrectly reported by the laboratory; result was corrected by the data validator
--	Based on validation of the data, a qualifier was not required
-/-	No permit limit established for daily maximum or monthly average
<(value)	Analyte not detected at a concentration greater than or equal to the DL, MDL, or RL (see laboratory report for specific detail)
>(value)	Greater than most probable number
*	Result not validated
**	Flow for each outfall is calculated over the 24-hour period when the outfall autosampler is operating to collect the composite sample. See definition of "Daily Discharge" on page A-2 of Attachment A of the permit.
*1	Improper preservation of sample
*2	The ICP/MS ppb check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J)
*3	Initial and or continuing calibration recoveries were outside acceptable control limits
*5	Blank spike/blank spike duplicate relative percent difference was outside the control limit

FOURTH QUARTER 2015
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

*10	Value was estimated detect or estimated non detect (J,UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as Estimated Maximum Possible Concentration (EMPC) values
*11	No calibration was performed for this compound; result is reported as a tentatively identified compound (TIC)
* II *III	Unusual problems found with the data that have been described in Section II, “sample management”, or Section III, “method analysis”. The number following the asterisk (*) will indicated the validation report section where a description of the problem can be found.
ANR	Analysis not required; e.g., constituent or outfall was not required by the permit to be sampled and analyzed over the reporting period (annual, semi-annual, etc.)
B	Laboratory method blank contamination
BA	Relative percent difference out of control
BEF	Bioaccumulation equivalency factor
BU	Analyzed out of holding time
BV	Sample received after holding time expired
C	Calibration %RSD or %D were noncompliant
Comp	Composite sample type
C5	Calibration verification %R was outside method control limits
CEs/100 ml	Cell equivalents per 100 milliliters
D	The analysis with this flag should not be used because another more technically sound analysis is available
%D	Percent difference between the initial and continuing calibration relative response factors
deg F	Degrees Fahrenheit
DL	Detection limit
DNQ	Detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less than the laboratory reporting limit)
E	E in validation qualifier indicates that duplicates show poor agreement
ft/sec	Feet per second
G	Gallons
H	Holding time was exceeded
I	ICP interference check solution results were unsatisfactory
J	Estimated value, result lower than the detection limit
J, DX	Estimated value, value < lowest standard (MQL), but > than MDL

FOURTH QUARTER 2015
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

K	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 mg/l. Therefore, the reported result is an estimated value only.
L2	The laboratory control sample %R was below the method control limits
L	Laboratory control sample %R was outside control limits
lbs/day	Pounds per day
LOD	Limit of detection
LQ	LCS/LCSD recovery above method control limits
M1	Matrix spike (MS) and/or MS duplicate were above the acceptance limits due to sample matrix interference
M2	The MS and/or MS duplicate were below the acceptance limits due to sample matrix interference
MDA/MDC	Minimum detectable activity/ minimum detectable concentration
MDL	Method detection limit
Meas	Measure sample type
MFL	Million fibers per liter
MGD	Million gallons per day
MHA	Due to high level of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information.
mg/L	Milligrams per liter
mg/kg	Milligrams per kilogram
ml/L/hr	Milliliters per liter per hour
MPN/100 ml	Most probable number per 100 milliliters
NA	Not applicable; no permit limit established for the constituent and/or outfall or MDAs are not calculated as there is no statistical method for combining MDAs
ND	Analyte value less than the LOD or MDL
NM	Not measured or determined
NTU	Nephelometric turbidity unit
P	Pounds
pCi/L	PicoCuries per liter
Q	Matrix spike recovery outside of control limits
R	As a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified
R	(reason code in parentheses) %R for calibration not within control limits

FOURTH QUARTER 2015
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

RL	Laboratory reporting limit
RL-1	Reporting limit raised due to sample matrix effects
%RSD	Percent relative standard deviation
% survival	Percent survival
S	Surrogate recovery was outside control limits
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TEQ	Toxic equivalent
T	Presumed contamination, as indicated by a detect in the trip blank
TU_c	Toxicity units (chronic)
U	Result not detected
µg/L	Micrograms per liter
µg/kg	Micrograms per kilogram
UJ	Result not detected at the estimated reporting limit
umhos/cm	Micromhos per centimeter
WHO TEF	World Health Organization toxic equivalency factor
w/out	Without
^	Analysis not completed due to hold time exceedence or insufficient sample volume
#	Per ORDER NO. R4-2015-0033 page 16 Footnote 1. The effluent limitations for total suspended solids and settable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inches of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.
(1)	Based on the permit, table E-3a footnote 2, receiving water samples for pH, hardness, and priority pollutants must be collected on the same day as effluent samples.
(2)	Additional sample, not required by the permit
(4.0)3.1/-	Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average Limit.
(3)	Secondary Maximum Contaminant Level
(4)	The drinking water maximum contaminant level of 3.00E-05 ug/L is for the dioxin congener 2,3,7,8-TCDD. TCDD TEQ w/out DNQ Values is the sum of the products of the detected dioxin congener concentration multiplied by that congener's toxicity equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). There are 17 dioxin congeners.

ARROYO SIMI (FRONTIER PARK RECEIVING WATER)

FOURTH QUARTER 2015 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309

October 1 through December 31, 2015

				12/22/2015			12/22/2015 (Field Duplicate)		
ANALYTE	**UNITS**	**Permit Limit Daily Max/Monthly Avg**	**SAMPLE FREQUENCY**	**SAMPLE TYPE**	**RESULT**	**VALIDATION QUALIFIER**	**SAMPLE TYPE**	**RESULT**	**VALIDATION QUALIFIER**
POLLUTANTS WITH LIMITS									
4,4'-DDD	ug/L	0.0014/-	1/Quarter	Grab	ND < 0.0038	U	Grab	ND < 0.0038	U
4,4'-DDE	ug/L	0.001/-	1/Quarter	Grab	ND < 0.0028	U	Grab	ND < 0.0028	U
4,4'-DDT	ug/L	0.001/-	1/Quarter	Grab	ND < 0.0038	U	Grab	ND < 0.0038	U
Aroclor 1016	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Aroclor 1221	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Aroclor 1232	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Aroclor 1242	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Aroclor 1248	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Aroclor 1254	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Aroclor 1260	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
Chlordane	ug/L	0.001/-	1/Quarter	Grab	ND < 0.075	U	Grab	ND < 0.075	U
Chlorpyrifos	ug/L	0.02/-	1/Quarter	Grab	ND < 0.53	U	Grab	ND < 0.53	U
Diazinon	ug/L	0.16/-	1/Quarter	Grab	ND < 0.13	U	Grab	ND < 0.13	U
Dieldrin	ug/L	0.0002/-	1/Quarter	Grab	ND < 0.0019	U	Grab	ND < 0.0019	U
E. Coli	MPN/100 ml	235/-	1/Year	ANR	ANR	ANR	ANR	ANR	ANR
pH (Field)	pH units	6.5-8.5/-	1/Quarter	Grab	6.6	*	ANR	ANR	ANR
Toxaphene	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.23	U	Grab	ND < 0.24	U
POLLUTANTS WITHOUT LIMITS									
Hardness as CaCO3, Total	mg/L	-/-	1/Quarter	Grab	85	--	ANR	ANR	ANR
Temperature (Field)	deg F	-/-	1/Quarter	Grab	55.27	*	ANR	ANR	ANR
Total Suspended Solids	mg/L	-/-	1/Year	ANR	ANR	ANR	ANR	ANR	ANR
Water Velocity	ft/sec	-/-	1/Quarter	Grab	0.1	*	ANR	ANR	ANR

See attached notes for abbreviations, definitions, and other explanations for the data presented.

APPENDIX D

Fourth Quarter 2015 Analytical Laboratory Report, Chain of Custody, and Validation Report

APPENDIX D

TABLE OF CONTENTS

Section No.

DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: 440-131753-1

Prepared for

Haley & Aldrich, Inc.

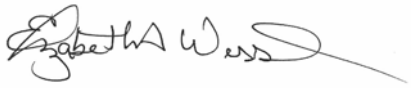
600 South Meyer Avenue, Suite 100

Tucson, Arizona 85701

Validator

Patti Meeks

Reviewer



Elizabeth A. Wessling

January 18, 2016

TABLE OF CONTENTS

TABLES

I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES

Contract: 40458-078 and 40458-083

MEC^X Project No.: 1272.003H.01

Sample Delivery Group: 440-131753-1

Project Manager: Katherine Miller

Matrix: Water

QC Level: IV

No. of Samples: 2

No. of Reanalyses/Dilutions: 0

Laboratory: TestAmerica

TABLE 1 - SAMPLE IDENTIFICATION

Sample Name	Lab Sample Name	Sub Lab Sample ID	Matrix	Collection	Method
Arroyo_Simi_20151222_Grab	440-131753-1	N/A	Soil	12/22/2015 9:14:00 AM	E608, E525.2, SM2340
Arroyo_Simi_20151222_Grab_Extra	440-131753-2	N/A	Soil	12/22/2015 9:14:00 AM	E608, E525.2

II. SAMPLE MANAGEMENT

According to the case narrative, sample condition upon receipt form and the chain-of-custody (COC) provided by the laboratory for sample delivery group (SDG) 440-131753-1:

- The laboratory received samples in this sample delivery group (SDG) on ice and within the temperature limits of less than 6 degrees Celsius (°C) and greater than 0°C.
- The laboratory received the sample containers intact and properly preserved, as applicable.
- Laboratory personnel signed and dated the COC.
- The sampler(s) did not use custody seals as the samples were delivered to the laboratory by courier.

MEC^X noted anomalies regarding sample management identified below.

- One relinquishment did not list the time.

TABLE 2 - DATA QUALIFIER REFERENCE

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. For dioxins or PCB congeners, the associated value is the quantitation limit or the estimated detection limit.	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. For perchlorate, the associated value is the sample detection limit or the quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may inaccurate or imprecise.	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may inaccurate or imprecise.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
NJ	The analyte has been "tentatively identified" or “presumptively” as present and the associated numerical value is the estimated concentration in the sample.	Not applicable.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.	The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control criteria. The analyte may or may not be present in the sample.

TABLE 3 - REASON CODE REFERENCE

Reason Code	Organic	Inorganic
H	Holding time was exceeded.	Holding time was exceeded.
S	Surrogate recovery was outside control limits.	The sequence or number of standards used for the calibration was incorrect.
C	Calibration percent relative standard deviation (%RSD) or percent deviation (%D) were noncompliant, or coefficient of determination (r^2) was <0.990.	Correlation coefficient (r) was <0.995.
R	Calibration relative response factor (RRF) was <0.05.	Percent recovery (%R) for calibration was outside control limits.
B	The analyte was detected in an associated blank as well as in the sample.	The analyte was detected in an associated blank as well as in the sample.
L	Laboratory control sample (LCS) or /LCS duplicate (LCSD) %R was outside the control limits.	LCS or LCSD %R was outside the control limits.
L1	LCS/LCSD relative percent difference (RPD) was outside the control limit.	LCS/LCSD RPD was outside the control limit.
Q	Matrix spike/matrix spike duplicate (MS/MSD) %R was outside control limits.	MS or MSD %R was outside the control limit.
Q1	MS/MSD RPD was outside the control limit.	MS/MSD RPD was outside the control limit.
E	Result was reported as an estimated maximum possible concentration (EMPC).	Laboratory duplicate RPD was outside the control limit.
I	Internal standard recovery was outside control limits.	Inductively coupled plasma (ICP) interference check standard (ICSA/ICSAB) result was outside control limits.
I1	Not applicable.	ICP mass spectrometer (ICPMS) internal standard recovery was outside control limits.
A	Not applicable.	Serial dilution %D was outside control limits.
M	Tuning (BFB or DFTPP) was not compliant.	ICPMS tune was not compliant.
T	The analyte was detected in an associated trip blank as well as in the sample.	Not applicable.

Reason Code	Organic	Inorganic
+	False positive – reported compound was not present.	False positive – reported compound was not present.
-	False negative – compound was present but not reported.	False negative – compound was present but not reported.
F	The analyte was detected in an associated field blank (FB) or equipment blank (EB) as well as in the sample.	The analyte was detected in an associated field blank (FB) or equipment blank (EB) as well as in the sample.
F1	Field duplicate RPD was outside the control limit.	Field duplicate RPD was outside the control limit.
$	The reviewer corrected the reported result and/or other information.	The reviewer corrected the reported result and/or other information.
?	TIC identity or reported retention time has been changed.	Not applicable.
D	The analysis was not used because another more technically sound analysis was available.	The analysis was not used because another more technically sound analysis was available.
P	Instrument performance not compliant.	Post digestion spike recovery was outside of control limits.
DNQ	The reported result is above the method detection limit but is less than the reporting limit.	The reported result is above the method detection limit but is less than the reporting limit.
*II, *III	Other problems identified in the data are described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.	Other problems identified in the data are described in Section II, "Sample Management," or Section III, "Method Analyses." The number following the asterisk (*) will indicate the report section where a description of the problem can be found.

III. METHOD ANALYSES – 608 PESTICIDES AND PCBS

Patti Meeks of MEC^X reviewed the SDG on January 19, 2016

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Organochlorine Pesticides/PCBs by GC (DVP-4, Rev. 1), EPA Method 608*, and the *National Functional Guidelines for Superfund Organic Methods Data Review* (2014).

III.1. HOLDING TIMES

Extraction and analytical holding times were met. The water samples were extracted within seven days of collection. The samples were analyzed within 40 days of extraction.

III.2. CALIBRATION

The initial calibrations had %RSDs of ≤10% or r^2 of ≥0.990 on both analytical columns. One Arochlor-1248 peak had a %D exceeding the control limit; however, as it was associated with a high recovery and the compounds were not detected in the sample, no qualifications were applied. The remaining initial calibration verifications (ICVs) and continuing calibration verifications (CCVs) bracketing the sample analyses had %Ds within the control limit of ≤15%. The breakdown totals for endrin and 4,4'-DDT were ≤15%.

III.3. QUALITY CONTROL SAMPLES

III.3.1. *METHOD BLANKS*

Target compounds were not detected in method blanks.

III.3.2. *LABORATORY CONTROL SAMPLES*

Recoveries were within the laboratory-established control limits. Chlordane and toxaphene were not spiked in the pesticide LCS.

III.3.3. *SURROGATE RECOVERY*

Pesticide surrogate tetrachloro-m-xylene (TCMX) and PCB surrogate decachlorobiphenyl (DCB) were recovered within the laboratory control limits of 10-150% and 29-115%, respectively, in the site samples. The TCMX recovery was above the control limit in the MSD at 209%. The reviewer noted the secondary column had an acceptable recovery for this surrogate. No qualifications were applied to the data.

III.3.4. *MATRIX SPIKE/MATRIX SPIKE DUPLICATE*

Matrix spike (MS)/MS duplicate (MSD) analyses were performed on sample Arroyo_Simi_20151222_Grab for pesticides and PCBs. Chlordane and toxaphene were not spiked in the pesticide MS/MSD. The recoveries and RPDs were within the laboratory control limits.

III.4. FIELD QC SAMPLES

MEC^X evaluated field QC samples, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. MEC^X used the remaining detects to evaluate the associated site samples. Findings associated with field QC samples are summarized below.

- Field Blanks and Equipment Blanks: Field blank or equipment blank samples were not identified for this SDG.

- Field Duplicates: Sample Arroyo_Simi_20151222_Grab_Extra was collected to be extra sample volume should the need arise. However, the lab analyzed this extra volume as a separate sample. It was therefore treated as a field duplicate of sample Arroyo_Simi_20151222_Grab. Neither sample had reportable target compound detects and the pair are considered to be in good agreement.

III.5. COMPOUND IDENTIFICATION

Compound identification was verified. Review of the sample chromatograms and retention times indicated no problems with target compound identification. The laboratory analyzed for select pesticides and seven Aroclors by Method 608.

III.6. COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantification was verified. The reporting limits were supported by the low point of the initial calibrations and the laboratory MDLs. Results reported below the reporting limit were qualified as estimated (J) and coded with DNQ in order to comply with the NPDES permit. Reported nondetects are valid to the reporting limit.

IV. EPA METHODS 525.2— SEMIVOLATILE ORGANIC COMPOUNDS (SVOCS)

Patti Meeks of MEC^X reviewed the SDG on January 19, 2016

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 1), EPA Method 525.2, and the National Functional Guidelines for Superfund Organic Methods Data Review (2014).

IV.1. HOLDING TIMES

Extraction and analytical holding times were met. The water samples were extracted within 24 hours of collection and were analyzed within 30 days of extraction.

IV.2. GC/MS TUNING AND CALIBRATION

The DFTPP tunes met the method abundance criteria. The samples were analyzed within 12 hours of the DFTPP injection time.

Calibration criteria were met. The initial calibration average RRFs were ≥0.05 and %RSD ≤30%. The continuing calibration RRFs were ≥0.05 and recoveries were within the method QC limits of 70-130%.

IV.3. QUALITY CONTROL SAMPLES

IV.3.1. *METHOD BLANKS*

Target compounds were not detected in the method blank.

IV.3.2. *LABORATORY CONTROL SAMPLES*

The recoveries and RPDs were within the control limits of 70-130% and ≤30%, respectively.

IV.3.3. *SURROGATE RECOVERY*

Recoveries were within laboratory-established control limits of 70-130%.

IV.3.4. *MATRIX SPIKE/MATRIX SPIKE DUPLICATE*

MS/MSD analyses were performed on sample Arroyo_Simi_20151222_Grab. The recoveries and RPDs were within the control limits of 70-130% and ≤30%, respectively.

IV.4. FIELD QC SAMPLES

MEC^X evaluated field QC samples, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. MEC^X used the remaining detects to evaluate the associated site samples. Findings associated with field QC samples are summarized below:

- Field Blanks and Equipment Blanks: Field blank or equipment blank samples were not identified for this SDG.
- Field Duplicates: Sample Arroyo_Simi_20151222_Grab_Extra was collected to be extra sample volume should the need arise. However, the lab analyzed this extra volume as a separate sample. It was therefore treated as a field duplicate of sample Arroyo_Simi_20151222_Grab. Neither sample had reportable target compound detects and the pair are considered to be in good agreement.

IV.5. INTERNAL STANDARDS PERFORMANCE

The internal standard area counts were within the method control limits established by the continuing calibration standards of ±30% for areas and ±10 seconds for retention times.

IV.6. COMPOUND IDENTIFICATION

Compound identification was verified. The laboratory analyzed for chlorpyrifos and diazinon by Method 525.2. Review of the sample chromatogram, retention times, and spectra indicated no problems with target compound identification.

IV.7. COMPOUND QUANTIFICATION AND REPORTED DETECTION LIMITS

Compound quantification was verified. The reporting limits were supported by the low point of the initial calibration and the laboratory MDLs. Reported nondetects are valid to the reporting limit.

IV.8. TENTATIVELY IDENTIFIED COMPOUNDS (TICS)

The laboratory did not report TICs for this SDG.

IV.9. SYSTEM PERFORMANCE

Review of the raw data indicated no problems with system performance.

V. STANDARD METHOD 2340B—HARDNESS

Patti Meeks of MEC^X reviewed the SDG on January 21, 2016

The samples listed in Table 1 for this analysis were validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for General Minerals (DVP-6, Rev. 1), Standard Methods for the Examination of Water and Wastewater Methods 2340B*, and the *National Functional Guidelines for Inorganic Superfund Data Review* (2014).

V.1. HOLDING TIMES

The analytical holding time for the analytes used in the calculation of hardness, six months, was met.

V.2. CALIBRATION

Calibration criteria were met. The analytes used in the calculation of hardness were recovered within 90-110% in the ICV and CCVs.

V.1. QUALITY CONTROL SAMPLES

V.1.1. *METHOD BLANKS*

The method blank and CCBs had no detects.

V.1.2. *LABORATORY CONTROL SAMPLES*

Summary form results of the metals laboratory control sample (LCS) were not provided by the laboratory. The reviewer assessed the raw data against the LCS true values provided in another SDG and found the analytes used in the calculation of hardness were recovered within the method QC limits of 85-115%.

V.1.3. *LABORATORY DUPLICATES*

Laboratory duplicate analyses were not performed on the sample from this SDG.

V.1.4. *MATRIX SPIKE/MATRIX SPIKE DUPLICATE*

MS/MSD analyses are not applicable to the hardness calculation.

V.1.5. *SAMPLE RESULT VERIFICATION*

Calculations were verified and the sample results reported on the sample result summary were verified against the raw data. No transcription errors or calculation errors were noted. When the sample results were qualified and the reviewer was able to clearly determine bias, detected results were qualified as either "J+" or "J-"; otherwise, bias was not indicated in the qualification. Any detects between the method detection limit and the reporting limit were qualified as estimated, "J," and coded with "DNQ," in order to comply with the NPDES permit. Reported nondetects are valid to the MDL.

V.2. FIELD QC SAMPLES

MEC^X evaluated field QC samples were evaluated, and if necessary, qualified based on method blanks and other laboratory QC results affecting the usability of the field QC data. MEC^X used the remaining detects to evaluate the associated site samples. Findings associated with field QC samples are summarized below.

- Field Blanks and Equipment Blanks: Field blank or equipment blank samples were not identified for this SDG.
- Field Duplicates: There were no field duplicates identified in this SDG.

Validated Sample Result Forms: 4401317531

Analysis Method E525.2

Sample Name Arroyo_Simi_20151222_Grab **Matrix Type:** WS **Result Type:** TRG

Sample Date: 12/22/2015 9:14:00 AM **Validation Level:** 8

Lab Sample Name: 440-131753-1

Analyte	Fraction	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chlorpyrifos	N	2921-88-2	1.1	1.1	0.53	ug/L	U	U	
Diazinon	N	333-41-5	0.26	0.26	0.13	ug/L	U	U	

Sample Name Arroyo_Simi_20151222_Grab_Extra **Matrix Type:** WS **Result Type:** TRG

Sample Date: 12/22/2015 9:14:00 AM **Validation Level:** 8

Lab Sample Name: 440-131753-2

Analyte	Fraction	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chlorpyrifos	N	2921-88-2	1.1	1.1	0.53	ug/L	U	U	
Diazinon	N	333-41-5	0.26	0.26	0.13	ug/L	U	U	

Analysis Method E608

Sample Name Arroyo_Simi_20151222_Grab **Matrix Type:** WS **Result Type:** TRG

Sample Date: 12/22/2015 9:14:00 AM **Validation Level:** 8

Lab Sample Name: 440-131753-1

Analyte	Fraction	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
4,4'-DDD	N	72-54-8	0.0047	0.0047	0.0038	ug/L	U	U	
4,4'-DDE	N	72-55-9	0.0047	0.0047	0.0028	ug/L	U	U	
4,4'-DDT	N	50-29-3	0.0094	0.0094	0.0038	ug/L	U	U	
Aroclor-1016 (PCB-1016)	N	12674-11-2	0.47	0.47	0.23	ug/L	U	U	
Aroclor-1221 (PCB-1221)	N	11104-28-2	0.47	0.47	0.23	ug/L	U	U	
Aroclor-1232 (PCB-1232)	N	11141-16-5	0.47	0.47	0.23	ug/L	U	U	
Aroclor-1242 (PCB-1242)	N	53469-21-9	0.47	0.47	0.23	ug/L	U	U	
Aroclor-1248 (PCB-1248)	N	12672-29-6	0.47	0.47	0.23	ug/L	U	U	
Aroclor-1254 (PCB-1254)	N	11097-69-1	0.47	0.47	0.23	ug/L	U	U	
Aroclor-1260 (PCB-1260)	N	11096-82-5	0.47	0.47	0.23	ug/L	U	U	
Chlordane	N	57-74-9	0.094	0.094	0.075	ug/L	U	U	
Dieldrin	N	60-57-1	0.0047	0.0047	0.0019	ug/L	U	U	
Toxaphene	N	8001-35-2	0.47	0.47	0.23	ug/L	U	U	

Analysis Method E608

Sample Name Arroyo_Simi_20151222_Grab_Extra **Matrix Type:** WS **Result Type:** TRG

Sample Date: 12/22/2015 9:14:00 AM **Validation Level:** 8

Lab Sample Name: 440-131753-2

Analyte	Fraction	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
4,4'-DDD	N	72-54-8	0.0047	0.0047	0.0038	ug/L	U	U	
4,4'-DDE	N	72-55-9	0.0047	0.0047	0.0028	ug/L	U	U	
4,4'-DDT	N	50-29-3	0.0094	0.0094	0.0038	ug/L	U	U	
Aroclor-1016 (PCB-1016)	N	12674-11-2	0.47	0.47	0.24	ug/L	U	U	
Aroclor-1221 (PCB-1221)	N	11104-28-2	0.47	0.47	0.24	ug/L	U	U	
Aroclor-1232 (PCB-1232)	N	11141-16-5	0.47	0.47	0.24	ug/L	U	U	
Aroclor-1242 (PCB-1242)	N	53469-21-9	0.47	0.47	0.24	ug/L	U	U	
Aroclor-1248 (PCB-1248)	N	12672-29-6	0.47	0.47	0.24	ug/L	U	U	
Aroclor-1254 (PCB-1254)	N	11097-69-1	0.47	0.47	0.24	ug/L	U	U	
Aroclor-1260 (PCB-1260)	N	11096-82-5	0.47	0.47	0.24	ug/L	U	U	
Chlordane	N	57-74-9	0.094	0.094	0.075	ug/L	U	U	
Dieldrin	N	60-57-1	0.0047	0.0047	0.0019	ug/L	U	U	
Toxaphene	N	8001-35-2	0.47	0.47	0.24	ug/L	U	U	

Analysis Method SM2340

Sample Name Arroyo_Simi_20151222_Grab **Matrix Type:** WS **Result Type:** TRG

Sample Date: 12/22/2015 9:14:00 AM **Validation Level:** 8

Lab Sample Name: 440-131753-1

Analyte	Fraction	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3	T	HARDNESSCACO3	85	0.33	0.17	mg/L			

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-131753-1
Client Project/Site: Quarterly Arroyo Simi-Frontier Park

For:
Haley & Aldrich, Inc.
5333 Mission Center Road
Suite 300
San Diego, California 92108

Attn: Nancy Gardiner

Debby Wilson

Authorized for release by:
1/8/2016 10:34:28 AM

Debby Wilson, Operations Manager
(949)261-1022
debby.wilson@testamericainc.com

I certify under penalty of perjury that the information contained in this report and all attachments was produced in accordance with the indicated methods and laboratory standard operating procedures, except as noted, and are complete and accurate to the best of my knowledge and belief. Subcontract laboratory reports that are attached have been evaluated for completeness and quality control acceptability.

Debby Wilson
Operations Manager
1/8/2016 10:34:28 AM

Table of Contents

Sample Summary

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyro Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-131753-1	Arroyo_Simi_20151222_Grab	Water	12/22/15 09:14	12/22/15 16:30
440-131753-2	Arroyo_Simi_20151222_Grab_Extra	Water	12/22/15 09:14	12/22/15 16:30

Job ID: 440-131753-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-131753-1

Comments
No additional comments.

Receipt
The samples were received on 12/22/2015 4:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 4.1º C and 4.6º C.

GC/MS Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 608: Surrogate recovery for the following sample was outside control limits: Arroyo_Simi_20151222_Grab (440-131753-1[MSD]). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample ID: Arroyo_Simi_20151222_Grab

Lab Sample ID: 440-131753-1

Date Collected: 12/22/15 09:14
Matrix: Water
Date Received: 12/22/15 16:30

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorpyrifos	ND		1.1	0.53	ug/L		12/22/15 17:54	12/23/15 22:48	1
Diazinon	ND		0.26	0.13	ug/L		12/22/15 17:54	12/23/15 22:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dimethyl-2-nitrobenzene	*99*		*70 - 130*	*12/22/15 17:54*	*12/23/15 22:48*	*1*
Perylene-d12	*84*		*70 - 130*	*12/22/15 17:54*	*12/23/15 22:48*	*1*
Triphenylphosphate	*110*		*70 - 130*	*12/22/15 17:54*	*12/23/15 22:48*	*1*

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.094	0.075	ug/L		12/24/15 08:58	12/29/15 15:54	1
Dieldrin	ND		0.0047	0.0019	ug/L		12/24/15 08:58	12/29/15 15:54	1
Toxaphene	ND		0.47	0.23	ug/L		12/24/15 08:58	12/29/15 15:54	1
4,4'-DDD	ND		0.0047	0.0038	ug/L		12/24/15 08:58	12/29/15 15:54	1
4,4'-DDE	ND		0.0047	0.0028	ug/L		12/24/15 08:58	12/29/15 15:54	1
4,4'-DDT	ND		0.0094	0.0038	ug/L		12/24/15 08:58	12/29/15 15:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*88*		*10 - 150*	*12/24/15 08:58*	*12/29/15 15:54*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1
Aroclor 1221	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1
Aroclor 1232	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1
Aroclor 1242	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1
Aroclor 1248	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1
Aroclor 1254	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1
Aroclor 1260	ND		0.47	0.23	ug/L		12/24/15 08:58	12/24/15 19:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*40*		*29 - 115*	*12/24/15 08:58*	*12/24/15 19:17*	*1*

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hardness, as CaCO3	**85**		0.33	0.17	mg/L			01/04/16 13:15	1

Client Sample ID: Arroyo_Simi_20151222_Grab_Extra

Lab Sample ID: 440-131753-2

Date Collected: 12/22/15 09:14
Matrix: Water
Date Received: 12/22/15 16:30

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorpyrifos	ND		1.1	0.53	ug/L		12/22/15 17:54	12/23/15 23:16	1
Diazinon	ND		0.26	0.13	ug/L		12/22/15 17:54	12/23/15 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dimethyl-2-nitrobenzene	*97*		*70 - 130*	*12/22/15 17:54*	*12/23/15 23:16*	*1*
Perylene-d12	*82*		*70 - 130*	*12/22/15 17:54*	*12/23/15 23:16*	*1*
Triphenylphosphate	*110*		*70 - 130*	*12/22/15 17:54*	*12/23/15 23:16*	*1*

Client Sample ID: Arroyo_Simi_20151222_Grab_Extra
Date Collected: 12/22/15 09:14
Date Received: 12/22/15 16:30

Lab Sample ID: 440-131753-2
Matrix: Water

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.094	0.075	ug/L		12/24/15 08:58	12/29/15 16:09	1
Dieldrin	ND		0.0047	0.0019	ug/L		12/24/15 08:58	12/29/15 16:09	1
Toxaphene	ND		0.47	0.24	ug/L		12/24/15 08:58	12/29/15 16:09	1
4,4'-DDD	ND		0.0047	0.0038	ug/L		12/24/15 08:58	12/29/15 16:09	1
4,4'-DDE	ND		0.0047	0.0028	ug/L		12/24/15 08:58	12/29/15 16:09	1
4,4'-DDT	ND		0.0094	0.0038	ug/L		12/24/15 08:58	12/29/15 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*10 - 150*	*12/24/15 08:58*	*12/29/15 16:09*	*1*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1
Aroclor 1221	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1
Aroclor 1232	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1
Aroclor 1242	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1
Aroclor 1248	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1
Aroclor 1254	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1
Aroclor 1260	ND		0.47	0.24	ug/L		12/24/15 08:58	12/24/15 19:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*33*		*29 - 115*	*12/24/15 08:58*	*12/24/15 19:31*	*1*

Method Summary

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	TAL IRV
608	Polychlorinated Biphenyls (PCBs) (GC)	40CFR136A	TAL IRV
608	Organochlorine Pesticides in Water	40CFR136A	TAL IRV
SM 2340B	Total Hardness (as CaCO3) by calculation	SM	TAL IRV

Protocol References:

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.
EPA = US Environmental Protection Agency
SM = "Standard Methods For The Examination Of Water And Wastewater",

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

Client Sample ID: Arroyo_Simi_20151222_Grab

Lab Sample ID: 440-131753-1

Date Collected: 12/22/15 09:14

Matrix: Water

Date Received: 12/22/15 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	525.2			950 mL	1 mL	301963	12/22/15 17:54	IVA	TAL IRV
Total/NA	Analysis	525.2		1	950 mL	1 mL	302269	12/23/15 22:48	MF	TAL IRV
Total/NA	Prep	608			1065 mL	2 mL	302491	12/24/15 08:58	LEG	TAL IRV
Total/NA	Analysis	608		1	1065 mL	2 mL	302598	12/24/15 19:17	CN	TAL IRV
Total/NA	Prep	608			1065 mL	2 mL	302491	12/24/15 08:58	LEG	TAL IRV
Total/NA	Analysis	608		1	1065 mL	2 mL	302829	12/29/15 15:54	KS	TAL IRV
Total Recoverable	Analysis	SM 2340B		1			303646	01/04/16 13:15	DP	TAL IRV

Client Sample ID: Arroyo_Simi_20151222_Grab_Extra

Lab Sample ID: 440-131753-2

Date Collected: 12/22/15 09:14

Matrix: Water

Date Received: 12/22/15 16:30

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	525.2			945 mL	1 mL	301963	12/22/15 17:54	IVA	TAL IRV
Total/NA	Analysis	525.2		1	945 mL	1 mL	302269	12/23/15 23:16	MF	TAL IRV
Total/NA	Prep	608			1060 mL	2 mL	302491	12/24/15 08:58	LEG	TAL IRV
Total/NA	Analysis	608		1	1060 mL	2 mL	302598	12/24/15 19:31	CN	TAL IRV
Total/NA	Prep	608			1060 mL	2 mL	302491	12/24/15 08:58	LEG	TAL IRV
Total/NA	Analysis	608		1	1060 mL	2 mL	302829	12/29/15 16:09	KS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 525.2 - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-301963/1-A
Matrix: Water
Analysis Batch: 302269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 301963

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorpyrifos	ND		1.0	0.50	ug/L		12/22/15 11:02	12/23/15 13:08	1
Diazinon	ND		0.25	0.12	ug/L		12/22/15 11:02	12/23/15 13:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,3-Dimethyl-2-nitrobenzene	*97*		*70 - 130*	*12/22/15 11:02*	*12/23/15 13:08*	*1*
Perylene-d12	*90*		*70 - 130*	*12/22/15 11:02*	*12/23/15 13:08*	*1*
Triphenylphosphate	*102*		*70 - 130*	*12/22/15 11:02*	*12/23/15 13:08*	*1*

Lab Sample ID: LCS 440-301963/2-A
Matrix: Water
Analysis Batch: 302269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 301963

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorpyrifos			5.00	4.82		ug/L		96	70 - 130		
Diazinon			5.00	4.26		ug/L		85	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,3-Dimethyl-2-nitrobenzene	*95*		*70 - 130*
Perylene-d12	*95*		*70 - 130*
Triphenylphosphate	*107*		*70 - 130*

Lab Sample ID: LCSD 440-301963/3-A
Matrix: Water
Analysis Batch: 302269

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 301963

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorpyrifos			5.00	5.02		ug/L		100	70 - 130	4	30
Diazinon			5.00	3.57		ug/L		71	70 - 130	18	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1,3-Dimethyl-2-nitrobenzene	*95*		*70 - 130*
Perylene-d12	*96*		*70 - 130*
Triphenylphosphate	*109*		*70 - 130*

Lab Sample ID: 440-131753-1 MS
Matrix: Water
Analysis Batch: 302269

Client Sample ID: Arroyo_Simi_20151222_Grab
Prep Type: Total/NA
Prep Batch: 301963

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chlorpyrifos	ND		5.10	4.24		ug/L		83	70 - 130		
Diazinon	ND		5.10	3.97		ug/L		78	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1,3-Dimethyl-2-nitrobenzene	*99*		*70 - 130*
Perylene-d12	*91*		*70 - 130*
Triphenylphosphate	*111*		*70 - 130*

Method: 525.2 - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-131753-1 MSD
Matrix: Water
Analysis Batch: 302269

Client Sample ID: Arroyo_Simi_20151222_Grab
Prep Type: Total/NA
Prep Batch: 301963

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorpyrifos	ND		5.18	4.27		ug/L		82	70 - 130	1	30
Diazinon	ND		5.18	4.13		ug/L		80	70 - 130	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1,3-Dimethyl-2-nitrobenzene	*94*		*70 - 130*
Perylene-d12	*86*		*70 - 130*
Triphenylphosphate	*106*		*70 - 130*

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 440-302491/1-A
Matrix: Water
Analysis Batch: 302829

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 302491

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.10	0.080	ug/L		12/24/15 08:58	12/29/15 14:56	1
Dieldrin	ND		0.0050	0.0020	ug/L		12/24/15 08:58	12/29/15 14:56	1
Toxaphene	ND		0.50	0.25	ug/L		12/24/15 08:58	12/29/15 14:56	1
4,4'-DDD	ND		0.0050	0.0040	ug/L		12/24/15 08:58	12/29/15 14:56	1
4,4'-DDE	ND		0.0050	0.0030	ug/L		12/24/15 08:58	12/29/15 14:56	1
4,4'-DDT	ND		0.010	0.0040	ug/L		12/24/15 08:58	12/29/15 14:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*10 - 150*	*12/24/15 08:58*	*12/29/15 14:56*	*1*

Lab Sample ID: LCS 440-302491/2-A
Matrix: Water
Analysis Batch: 302829

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 302491

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dieldrin			0.200	0.159		ug/L		79	51 - 117		
4,4'-DDD			0.200	0.157		ug/L		79	53 - 126		
4,4'-DDE			0.200	0.158		ug/L		79	48 - 115		
4,4'-DDT			0.200	0.173		ug/L		86	10 - 150		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*10 - 150*

Lab Sample ID: 440-131753-1 MS
Matrix: Water
Analysis Batch: 302829

Client Sample ID: Arroyo_Simi_20151222_Grab
Prep Type: Total/NA
Prep Batch: 302491

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Dieldrin	ND		0.190	0.134		ug/L		71	50 - 120		
4,4'-DDD	ND		0.190	0.131		ug/L		69	50 - 125		
4,4'-DDE	ND		0.190	0.128		ug/L		68	45 - 125		
4,4'-DDT	ND		0.190	0.149		ug/L		79	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*92*		*10 - 150*

Lab Sample ID: 440-131753-1 MSD — **Client Sample ID: Arroyo_Simi_20151222_Grab**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 302829 — **Prep Batch: 302491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dieldrin	ND		0.189	0.127		ug/L		67	50 - 120	5	30
4,4'-DDD	ND		0.189	0.128		ug/L		68	50 - 125	3	30
4,4'-DDE	ND		0.189	0.124		ug/L		66	45 - 125	8	30
4,4'-DDT	ND		0.189	0.143		ug/L		76	50 - 125	4	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	*209*	*PI LH*	*10 - 150*

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 440-302491/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 302598 — **Prep Batch: 302491**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1
Aroclor 1221	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1
Aroclor 1232	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1
Aroclor 1242	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1
Aroclor 1248	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1
Aroclor 1254	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1
Aroclor 1260	ND		0.50	0.25	ug/L		12/24/15 08:58	12/24/15 18:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*56*		*29 - 115*	*12/24/15 08:58*	*12/24/15 18:22*	*1*

Lab Sample ID: LCS 440-302491/5-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 302598 — **Prep Batch: 302491**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	2.95		ug/L		74	50 - 115
Aroclor 1260	4.00	3.06		ug/L		76	10 - 127

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	*76*		*29 - 115*

Lab Sample ID: 440-131753-1 MS — **Client Sample ID: Arroyo_Simi_20151222_Grab**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 302598 — **Prep Batch: 302491**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		3.79	2.75		ug/L		73	45 - 120
Aroclor 1260	ND		3.79	2.79		ug/L		74	55 - 125

Method: 608 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: 440-131753-1 MS
Matrix: Water
Analysis Batch: 302598

Client Sample ID: Arroyo_Simi_20151222_Grab
Prep Type: Total/NA
Prep Batch: 302491

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	*39*		*29 - 115*

Lab Sample ID: 440-131753-1 MSD
Matrix: Water
Analysis Batch: 302598

Client Sample ID: Arroyo_Simi_20151222_Grab
Prep Type: Total/NA
Prep Batch: 302491

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		3.76	2.88		ug/L		77	45 - 120	5	30
Aroclor 1260	ND		3.76	2.42		ug/L		64	55 - 125	8	25

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	*46*		*29 - 115*

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

GC/MS Semi VOA

Prep Batch: 301963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131753-1	Arroyo_Simi_20151222_Grab	Total/NA	Water	525.2	
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total/NA	Water	525.2	
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total/NA	Water	525.2	
440-131753-2	Arroyo_Simi_20151222_Grab_Extra	Total/NA	Water	525.2	
LCS 440-301963/2-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 440-301963/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MB 440-301963/1-A	Method Blank	Total/NA	Water	525.2	

Analysis Batch: 302269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131753-1	Arroyo_Simi_20151222_Grab	Total/NA	Water	525.2	301963
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total/NA	Water	525.2	301963
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total/NA	Water	525.2	301963
440-131753-2	Arroyo_Simi_20151222_Grab_Extra	Total/NA	Water	525.2	301963
LCS 440-301963/2-A	Lab Control Sample	Total/NA	Water	525.2	301963
LCSD 440-301963/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	301963
MB 440-301963/1-A	Method Blank	Total/NA	Water	525.2	301963

GC Semi VOA

Prep Batch: 302491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131753-1	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	
440-131753-2	Arroyo_Simi_20151222_Grab_Extra	Total/NA	Water	608	
LCS 440-302491/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 440-302491/5-A	Lab Control Sample	Total/NA	Water	608	
MB 440-302491/1-A	Method Blank	Total/NA	Water	608	

Analysis Batch: 302598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131753-1	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	302491
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	302491
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	302491
440-131753-2	Arroyo_Simi_20151222_Grab_Extra	Total/NA	Water	608	302491
LCS 440-302491/5-A	Lab Control Sample	Total/NA	Water	608	302491
MB 440-302491/1-A	Method Blank	Total/NA	Water	608	302491

Analysis Batch: 302829

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131753-1	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	302491
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	302491
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total/NA	Water	608	302491
440-131753-2	Arroyo_Simi_20151222_Grab_Extra	Total/NA	Water	608	302491
LCS 440-302491/2-A	Lab Control Sample	Total/NA	Water	608	302491
MB 440-302491/1-A	Method Blank	Total/NA	Water	608	302491

QC Association Summary

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

Metals

Analysis Batch: 303646

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-131753-1	Arroyo_Simi_20151222_Grab	Total Recoverable	Water	SM 2340B	
440-131753-1 MS	Arroyo_Simi_20151222_Grab	Total Recoverable	Water	SM 2340B	
440-131753-1 MSD	Arroyo_Simi_20151222_Grab	Total Recoverable	Water	SM 2340B	

Definitions/Glossary

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
LH	Surrogate Recoveries were higher than QC limits
PI	Primary and confirm results varied by > than 40% RPD

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Certification Summary

Client: Haley & Aldrich, Inc.
Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-131753-1

Laboratory: TestAmerica Irvine

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alaska	State Program	10	CA01531	06-30-16
Arizona	State Program	9	AZ0671	10-13-16
California	LA Cty Sanitation Districts	9	10256	01-31-16 *
California	State Program	9	2706	06-30-16
Guam	State Program	9	Cert. No. 12.002r	01-23-16
Hawaii	State Program	9	N/A	01-29-16
Kansas	NELAP Secondary AB	7	E-10420	07-31-16
New Mexico	State Program	6	N/A	01-29-16
Northern Mariana Islands	State Program	9	MP0002	01-29-16
Oregon	NELAP	10	4005	01-29-16
USDA	Federal		P330-09-00080	07-08-18

* Certification renewal pending - certification considered valid.

Test America

440-131753 Chain of Custody

CHAIN OF CUSTODY FORM

Client Name/Address:
Haley & Aldrich
9040 Friars Road Suite 220
San Diego, CA 92108-5860

Test America Contact: Debby Wilson
17461 Derian Ave Suite #100
Irvine CA 92614
Tel 949 261 1022 x228
Cell 949 237 0603

Sampler:
Daniel Eal
Brian Benson

Project:
Boeing-SSFL NPDES
Permit 2015
Quarterly Arroyo Simi-Frontier Park
Dry Weather

Project Manager: Nancy Gardiner
619.285.7132, 858.337.4061(cell)

Field Manager: Mark Dominick
818.350.7312, 818.599.0702 (cell)

ANALYSIS REQUIRED

Sample Description	Sample I.D.	Sampling Date/Time	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	MS/MSD	Hardness as CaCO3, Recoverable	Chlorpyrifos, Diazinon (525.2)	Pesticides Chlordane, 4,4-DDD, 4,4-DDE, 4,4-DDT, Dieldrin, Toxaphene + PCBs				
Arroyo Simi	Arroyo_Simi_20151222_Grab	12/22/2015 0914	WS	~~1L 250 mL~~ Poly	3	HNO_3	100	Yes	X						
			WS	1L Glass Amber	6	HCl	275	Yes		X					
			WS	1L Glass Amber	6	None	285	Yes			X				
	Arroyo_Simi_20151222_Grab_Extra	12/22/2015 0914	WS	1L Glass Amber	2	HCl	275	No		X					
			WS	1L Glass Amber	2	None	285	No			X				

Field Readings | Meter serial #

Field Readings: (Include units) WYA7RJ9L

Time of Readings: 0910

pH 6.6 pH unit

Temp 12.93 °C/F

Velocity 0.1 ft/sec

Field readings QC

Checked by: ANTRA RICE

Date/Time: 12.22.15 1026

Comments

Extract within 24-Hours of sampling.

Extract within 24-Hours of sampling.

MS
12/22/15

Relinquished By	Date/Time:	Company:	Received By	Date/Time:
	12/22/15 1026	JHA Environmental		12/22/15 1026
	12/22/15 1250	WESTON	JHA	12/22/15
	12/22/15			12.22.15 1409

Turn-around time: (Check)
24 Hour: ____ 72 Hour: ____ 10 Day: ____
48 Hour: ____ 5 Day: ____ Normal: ____

Sample Integrity: (Check)
Intact: ____ On Ice: ____

Data Requirements: (Check)
No Level IV: ____ All Level IV: ____

Rel: 12.22.15 1630 TA

Rec: 12/22/15 1630

3.2/4.1 3.7/4.4 R-77

Page 18 of 20

1/8/2016

Test America

440-131753 Chain of Custody

CHAIN OF CUSTODY FORM

Client Name/Address:
Haley & Aldrich
9040 Friars Road Suite 220
San Diego, CA 92108-5860

Test America Contact: Debby Wilson
17461 Derian Ave Suite #100
Irvine CA 92614
Tel 949 261 1022 x228
Cell 949 237 0603

Sampler: Daniel Eal, Brian Benson

Project:
Boeing-SSFL NPDES
Permit 2015
Quarterly Arroyo Simi-Frontier Park
Dry Weather

Project Manager: Nancy Gardiner
619.285.7132, 858.337.4061(cell)

Field Manager: Mark Dominick
818.350.7312, 818.599.0702 (cell)

Field Readings | **Meter serial #** WYR7RJ9L

Field Readings: (Include units)
Time of Readings: 0910
pH 6.6 pH unit
Temp 12.93 °C/F
Velocity 0.1 ft/sec

Field readings QC
Checked by: ANITRA RICE AR
Date/Time: 12.22.15/1026

ANALYSIS REQUIRED

Sample Description	Sample I.D.	Sampling Date/Time	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	MS/MSD	Hardness as CaCO3, Recoverable	Chlorpyrifos, Diazinon (525.2)	Pesticides Chlordane, 4,4-DDD, 4,4-DDE, 4,4-DDT, Dieldrin, Toxaphene + PCBs					Comments
Arroyo Simi	Arroyo_Simi_20151222_Grab	12/22/2015/0914	WS	1L ~~250 mL~~ Poly	3	HNO_3	100	Yes	X							
			WS	1L Glass Amber	6	HCl	275	Yes		X						Extract within 24-Hours of sampling.
			WS	1L Glass Amber	6	None	285	Yes			X					
	Arroyo_Simi_20151222_Grab_Extra	12/22/2015/0914	WS	1L Glass Amber	2	HCl	275	No		X						Extract within 24-Hours of sampling.
			WS	1L Glass Amber	2	None	285	No			X					

HS 12/22/15

Relinquished By	Date/Time:	Company:	Received By	Date/Time:
[signature]	12/22/15/1026	JHA Environmental	[signature]	12/22/15/1026
[signature]	12/22/15/1250	WESTON	[signature]	JHA 12/22/15
[signature]	12/22/15		[signature]	12-22-15 1400

Turn-around time: (Check)
24 Hour: _____ 72 Hour: _____ 10 Day: _____
48 Hour: _____ 5 Day: _____ Normal: _____

Sample Integrity: (Check)
Intact: _____ On Ice: _____

Data Requirements: (Check)
No Level IV: ___ All Level IV: _____

Rel: [signature] 12-22-15 1630 TA Rec: [signature] 12/22/15 1630

3.2/4.1 3.7/4.4 IR-77

Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 440-131753-1

Login Number: 131753
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	