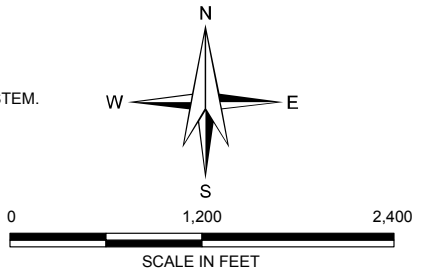


DESCRIPTIONS OF DISCHARGE OUTFALL LOCATIONS		
NPDES OUTFALL	DESCRIPTION	PRIMARY OVERSIGHT AGENCY
001	Stormwater, South Slope	RWQCB
002	Stormwater, South Slope	RWQCB
003	Stormwater, Radioactive Material Handling Facility	RWQCB
004	Stormwater, Sodium Reactor Experiment Area	RWQCB
005	Stormwater, Sodium Burn Pit 1	RWQCB
006	Stormwater, Sodium Burn Pit 2	RWQCB
007	Stormwater, Building 100	RWQCB
008	Stormwater, Happy Valley	RWQCB
009	Stormwater, WS-13 Drainage (Northern Drainage)	RWQCB
010	Stormwater, Building 203	RWQCB
011	Stormwater, Perimeter Pond (Treated at SWTS)	RWQCB
012	Stormwater, Alfa Test Stand	RWQCB
013	Stormwater, Bravo Test Stand	RWQCB
014	Stormwater, Advanced Propulsion Test Facility	RWQCB
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)	RWQCB
019	Treated Groundwater (GET System)	RWQCB

LEGEND

- NPDES OUTFALL LOCATION
- FORMER NPDES OUTFALL LOCATION
- GROUNDWATER EXTRACTION TREATMENT SYSTEM (GETS)
- DRAINAGE
- DIRT ROAD
- PAVED ROAD
- STORMWATER CONVEYANCE PIPELINE WITH FLOW DIRECTION
- ELEVATION CONTOUR
- SURFACE WATER POND
- SSFL PROPERTY BOUNDARY
- ADMINISTRATIVE AREA BOUNDARY
- EXISTING BUILDING/STRUCTURE

NOTES:
 1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE
 2. SWTS = STORM WATER TREATMENT SYSTEM.



HALEY & ALDRICH NPDES PERMIT COMPLIANCE SECOND QUARTER 2014 DISCHARGE MONITORING REPORT THE BOING COMPANY VENTURA COUNTY, CALIFORNIA

SITE MAP WITH DRAINAGES, OUTFALL LOCATIONS AND SWTS CONVEYANCE PIPING

SCALE: AS SHOWN
AUGUST 2014

FIGURE 1

G:\40458_SSFL\GIS\MapProjects\2014-07-40458-051-0001-OutfallLocations.mxd

APPENDIX A

Second Quarter 2014 Rainfall Data Summary

APPENDIX B

Second Quarter 2014 Liquid Waste Shipment Summary Table

**TABLE B
LIQUID WASTE SHIPMENTS**

**SECOND QUARTER 2014 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

DATE SHIPPED	MANIFEST TRACKING NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION		
4/9/2014	007471362FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	183	P	Clean Harbors Environmental Services	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls, Grantsville, UT 84029		
4/9/2014	Y0993	NON HAZARDOUS (WATER)	1730	P				
		NON HAZARDOUS (WATER)	72	P				
4/9/2014	Y1008	NON HAZARDOUS (WATER, SEDIMENT)	28620	P				
4/11/2014	007471363FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	3003	G		Evoque Water Technologies LLC 5375 South Boyle Avenue, Los Angeles, CA 90058		
4/23/2014	007471562FLE	WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID (TRICHLOROETHENE)	2270	P		Clean Harbors Aragonite LLC 11600 North Aptus Road, Grantsville, UT 84029		
		WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID (TRICHLOROETHENE)	145	P				
4/23/2014	007471563FLE	WASTE CORROSIVE LIQUID (SODIUM HYDROXIDE, SODIUM CYANIDE)	8	P				
		HAZARDOUS WASTE LIQUID (DEBRIS, SULFURIC ACID)	40	P				
		NON-RCRA HAZARDOUS WASTE LIQUIDS (IRON REAGENT, WATER)	6	P				
4/23/2014	007471566FLE	WASTE CORROSIVE LIQUID, BASIC INORGANIC (BENTONITE, SODIUM HYDROXIDE)	44	P	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls, Grantsville, UT 84029			
		NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	15	G				
5/21/2014	007764735FLE	WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC (HYDROCHLORIC ACID)	5	P	Remedial Transportation Services	Southwest Processors 4120 Bandini Blvd., Los Angeles, CA 90058		
5/21/2014	007764736FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	13671	P				
5/27/2014	Y1565	NON HAZARDOUS (WATER)	5491	G				
5/27/2014	Y1566	NON HAZARDOUS (WATER)	4518	G				
5/29/2014	Y1631	NON REGULATED LIQUID (WATER)	3164	G				
5/29/2014	Y1638	NON HAZARDOUS (WATER)	4587	G				
5/30/2014	Y1643	NON HAZARDOUS (WATER)	1950	G				
6/11/2014	Y1783	NON HAZARDOUS (WATER)	648	P				
6/25/2014	007764863FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	1218	P			Clean Harbors Environmental Services	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls, Grantsville, UT 84029
6/25/2014	007764867FLE	WASTE ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID (TRICHLOROETHENE)	182	P				
6/30/2014	Y1992	NON HAZARDOUS (WATER)	2350	G	Clean Harbors Aragonite LLC 11600 North Aptus Road, Grantsville, UT 84029			

**TABLE B
LIQUID WASTE SHIPMENTS**

**SECOND QUARTER 2014 REPORTING SUMMARY
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

DATE SHIPPED	MANIFEST TRACKING NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
4/1/2014	34631	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G	Southwest Processors Inc. 4120 Bandini Blvd. Vernon, CA 90058	LACSD
4/1/2014	34632	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/1/2014	34633	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/8/2014	33785	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	15000	G		
4/15/2014	34661	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/15/2014	34662	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/15/2014	34663	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/22/2014	34728	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/22/2014	34729	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/22/2014	34730	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/29/2014	34761	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	4999	G		
4/29/2014	34762	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
4/29/2014	34763	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/6/2014	34796	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/6/2014	34797	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/6/2014	34798	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/13/2014	34838	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/13/2014	34839	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/13/2014	34840	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/20/2014	34873	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/20/2014	34874	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/20/2014	34875	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/27/2014	34901	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/27/2014	34902	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
5/27/2014	34903	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/3/2014	34939	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/3/2014	34940	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/3/2014	34941	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/10/2014	34976	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/10/2014	34977	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/17/2014	35006	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/17/2014	35007	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	10000	G		
6/24/2014	35038	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/24/2014	35039	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
6/24/2014	35040	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		

APPENDIX C

Second Quarter 2014 Discharge Monitoring Data Summary Tables

**SECOND QUARTER 2014
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 37 of the NPDES permit.
2. Field measurements are not subject to third party validation.
3. All of the following abbreviations and/or notes may not occur on every table.
4. J(DNQ) flagged results are included in the data charts; however, these results are considered to be estimated values and as such are not used to quantify the chemical concentration for compliance purposes
5. 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°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 what laboratory reported for specific details)
*	result not validated
*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

**SECOND QUARTER 2014
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 ml
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 then the laboratory reporting limit)
E	duplicates show poor agreement
ft/sec	feet per second
H	holding time was exceeded
I	ICP interference check solution results were unsatisfactory
ICP	inductively coupled plasma
J	estimated value, result lower than the detection limit

**SECOND QUARTER 2014
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

J+	estimated value with a potential high bias
J, DX	estimated value, value < lowest standard (MQL), but > than MDL
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 ml
MQL	method quantitation limit
MS/MSD	matrix spike/matrix spike duplicate
NA	not applicable; no permit limit established for the constituent and/or outfall
ND	analyte value less than the LOD or MDL
NM	not measured or determined
NTU	nephelometric turbidity unit
pCi/L	picocuries per liter
Q	matrix spike recovery outside of control limits

**SECOND QUARTER 2014
REPORTING SUMMARY NOTES
THE BOEING COMPANY
SANTA SUSANA FIELD LABORATORY
NPDES PERMIT CA0001309**

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
RL	laboratory reporting limit
RL-1	reporting limit raised due to sample matrix effects
%R	percent recovery
%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
TIC	tentatively identified compound
TU _c	toxicity units (chronic)
U	result not detected
ug/L	micrograms per liter
ug/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
^	analysis not completed due to hold time exceedence or insufficient sample volume
#	Per ORDER NO. R4-2010-0090 page 23 Footnote 1. The effluent limitations for total suspended solids and settleable 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.
(4.0)3.1/-	Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average Limit.

ARROYO SIMI (FRONTIER PARK RECEIVING WATER)

SECOND QUARTER 2014 REPORTING SUMMARY
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

April 1 through June 30, 2014

ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	SAMPLE FREQUENCY	5/21/2014		
				SAMPLE TYPE	RESULT	VALIDATION QUALIFIER
POLLUTANTS WITH LIMITS						
4,4'-DDD	ug/L	0.0014/-	1/Quarter	Grab	ND < 0.0038	*
4,4'-DDE	ug/L	0.001/-	1/Quarter	Grab	ND < 0.0028	*
4,4'-DDT	ug/L	0.001/-	1/Quarter	Grab	ND < 0.0038	*
Aroclor 1016	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Aroclor 1221	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Aroclor 1232	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Aroclor 1242	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Aroclor 1248	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Aroclor 1254	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Aroclor 1260	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
Chlordane	ug/L	0.001/-	1/Quarter	Grab	ND < 0.076	*
Chlorpyrifos	ug/L	0.02/-	1/Quarter	Grab	ND < 0.48	*
Diazinon	ug/L	0.16/-	1/Quarter	Grab	ND < 0.11	*
Dieldrin	ug/L	0.0002/-	1/Quarter	Grab	ND < 0.0019	*
pH (Field)	pH Units	6.5-8.5/-	1/Quarter	Grab	6.98	*
Toxaphene	ug/L	0.0003/-	1/Quarter	Grab	ND < 0.24	*
POLLUTANTS WITHOUT LIMITS						
Hardness	mg/L	-/-	1/Quarter	Grab	800	J+ (R)
Temperature (Field)	deg F	-/-	1/Quarter	Grab	64.90	*
Water Velocity	ft/sec	-/-	1/Quarter	Meas	0.0	*

APPENDIX D

**Second Quarter 2014 Analytical Laboratory Report, Chain of Custody,
and Validation Report**

APPENDIX D

TABLE OF CONTENTS

Section No.

- 1 Arroyo Simi-Frontier Park - May 21, 2014 - MEC^x Data Validation Report
- 2 Arroyo Simi-Frontier Park – May 21, 2014 - Test America Analytical Laboratory Report



DATA VALIDATION REPORT

Haley & Aldrich Boeing SSFL Stormwater

SAMPLE DELIVERY GROUP: 440-79009-1

Prepared by

MEC^x
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title: Haley & Aldrich Boeing SSFL Stormwater
Contract Task Order: 1272.003H.01 001
Sample Delivery Group: 440-79009-1
Project Manager: K. Miller
Matrix: Water
QC Level: IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Laboratory: TestAmerica Irvine

Table 1. Sample Identification

<i>Sample Name</i>	<i>Lab Sample Name</i>	<i>Sub-Lab Sample Name</i>	<i>Matrix</i>	<i>Collection</i>	<i>Method</i>
ArroyoSimi-20140521	440-79009-1	N/A	Water	5/21/2014 8:50:00 AM	SM2340

II. Sample Management

No anomalies were observed regarding sample management. The sample in this SDG was received at the laboratory on ice and within the temperature limits of 4°C ±2°C. According to the laboratory sample receipt log for this SDG, the sample container was received intact and properly preserved. The COC was appropriately signed and dated by field and laboratory personnel. Custody seals were intact.

Data Qualifier Reference Table

Qualifier	Organics	Inorganics
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit. The associated value is the quantitation limit or the estimated detection limit for dioxins or PCB congeners.	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit. The associated value is the sample detection limit or the quantitation limit for perchlorate only.
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
J+	Not applicable	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, and may have a potential positive bias.
J-	Not applicable	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample, and may have a potential negative bias.
UJ	The analyte was not deemed above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.	The material was analyzed for, but was not detected. The associated value is an estimate and may be 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.

Qualifier	Organics	Inorganics
NJ	The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	Not applicable.
R	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.	The data are unusable. The sample results are rejected due to serious deficiencies in the ability to analyze the sample and to meet quality control criteria. The presence or absence of the analyte cannot be verified.

Qualification Code Reference Table

Qualifier	Organics	Inorganics
H	Holding times were exceeded.	Holding times were exceeded.
S	Surrogate recovery was outside QC limits.	The sequence or number of standards used for the calibration was incorrect
C	Calibration %RSD or %D was noncompliant.	Correlation coefficient is <0.995.
R	Calibration RRF was <0.05.	%R for calibration is not within control limits.
B	Presumed contamination as indicated by the preparation (method) blank results.	Presumed contamination as indicated by the preparation (method) or calibration blank results.
L	Laboratory Blank Spike/Blank Spike Duplicate %R was not within control limits.	Laboratory Control Sample %R was not within control limits.
L1	LCS/LCSD RPD was outside control limits.	LSC/LSCD RPD was outside control limits.
Q	MS/MSD recovery was poor.	MS recovery was poor.
Q1	MS/MSD RPD was outside control limits.	MS/MSD RPD was outside control limits.
E	Not applicable.	Duplicates showed poor agreement.
I	Internal standard performance was unsatisfactory.	ICP ICS results were unsatisfactory.
A	Not applicable.	ICP Serial Dilution %D were not within control limits.
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.
T	Presumed contamination as indicated by the trip blank results.	Not applicable.
+	False positive – reported compound was not present.	Not applicable.
-	False negative – compound was present but not reported.	Not applicable.
F	Presumed contamination as indicated by the FB or ER results.	Presumed contamination as indicated by the FB or ER results.
\$	Reported result or other information was incorrect.	Reported result or other information was incorrect.
?	TIC identity or reported retention time has been changed.	Not applicable.

Qualifier	Organics	Inorganics
D	The analysis with this flag should not be used because another more technically sound analysis is available.	The analysis with this flag should not be used because another more technically sound analysis is available.
P	Instrument performance for pesticides was poor.	Post Digestion Spike recovery was not within 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	Unusual problems found with the data that have been 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.	Unusual problems found with the data that have been 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

A. EPA METHODS 200.7 and SM2340B—Hardness

Reviewed By: P. Meeks
Date Reviewed: June 9, 2014

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Metals (DVP-5, Rev. 0 and DVP-21, Rev. 0)*, *EPA Method 200.7, Standard Method for the Examination of Water and Wastewater Method 2340B*, and the *National Functional Guidelines for Inorganic Data Review (1/10)*.

- Holding Times: The analytical holding time, six months, was met.
- Calibration: No summary forms were provided for the calcium and magnesium initial and continuing calibration. The ICV and opening CCV recoveries appeared to be within 90-110% for. The closing CCV appeared to have recoveries of 118% for calcium and 115% for magnesium; therefore, the hardness result was qualified as estimated with a potential positive bias, "J+." The CRI recoveries appeared to be within the control limits of 70-130%.
- Blanks: Method blanks and CCBs had no detects affecting sample results.
- Interference Check Samples: Calcium and magnesium recoveries were within 80-120%.
- Blank Spikes and Laboratory Control Samples: As hardness was the requested analyte, calcium and magnesium recoveries were not reported. The reviewer checked the raw data and judged the recoveries to be within the method control limits of 85-115%.
- Laboratory Duplicates: No laboratory duplicate analyses were performed on the sample in this SDG
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG; however, as hardness was requested analyte, the laboratory did not report the results of the MS/MSD. These results were not assessed.
- Serial Dilution: No serial dilution analyses were performed on the sample in this SDG.
- 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.

- Field QC Samples: 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. Any remaining detects were used to evaluate the associated site samples. Following are findings associated with field QC samples:
 - Field Blanks and Equipment Rinsates: This SDG had no identified field blank or equipment rinsate samples.
 - Field Duplicates: There were no field duplicate samples identified for this SDG.

Validated Sample Result Forms: 440790091

Analysis Method *SM2340*

Sample Name ArroyoSimi-20140521 **Matrix Type:** WS **Result Type:** TRG

Sample Date: 5/21/2014 8:50:00 AM **Validation Level:** 3

Lab Sample Name: 440-79009-1

Analyte	Fraction	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO ₃	T	HARDNESSCA CO ₃	800	0.33	0.17	mg/L		J+	R

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: 440-79009-1

Client Project/Site: Quarterly Arroyo Simi-Frontier Park

For:

Haley & Aldrich, Inc.

9040 Friars Rd.

San Diego, California 92108

Attn: Nancy Gardiner



Authorized for release by:

6/4/2014 2:50:46 PM

Debby Wilson, Manager of Project Management

(949)261-1022

debby.wilson@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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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
Manager of Project Management
6/4/2014 2:50:46 PM



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Sample Summary

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

TestAmerica Job ID: 440-79009-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-79009-1	ArroyoSimi-20140521	Water	05/21/14 09:05	05/21/14 19:51

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Case Narrative

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

TestAmerica Job ID: 440-79009-1

Job ID: 440-79009-1

Laboratory: TestAmerica Irvine

Narrative

**Job Narrative
440-79009-1**

Comments

No additional comments.

Receipt

The sample was received on 5/21/2014 7:51 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS Semi VOA

Method(s) 525.2: The internal standard recoveries (Acenaphthene-d10, Phenanthrene-d10 and Chrysene-d12) for the following sample was outside of acceptance: ArroyoSimi-20140521 (440-79009-1). A high bias is implied. The sample was reported based on ND results for all target analytes. No bias detected.

Method(s) 525.2: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 184261.

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

GC Semi VOA

Method(s) 608: The continuing calibration verification (CCV) associated with batch 184947 recovered above the upper control limit for 4,4-DDD and 4,4-DDE. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCV 440-184947/46), ArroyoSimi-20140521 (440-79009-1).

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 Results

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

TestAmerica Job ID: 440-79009-1

Client Sample ID: ArroyoSimi-20140521

Lab Sample ID: 440-79009-1

Date Collected: 05/21/14 09:05

Matrix: Water

Date Received: 05/21/14 19:51

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorpyrifos	ND		0.95	0.48	ug/L		05/21/14 21:25	05/23/14 18:02	1
Diazinon	ND		0.24	0.11	ug/L		05/21/14 21:25	05/23/14 18:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,3-Dimethyl-2-nitrobenzene	92		70 - 130				05/21/14 21:25	05/23/14 18:02	1
Perylene-d12	96		70 - 130				05/21/14 21:25	05/23/14 18:02	1
Triphenylphosphate	104		70 - 130				05/21/14 21:25	05/23/14 18:02	1

Method: 608 - Organochlorine Pesticides in Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.095	0.076	ug/L		05/24/14 07:12	05/27/14 21:02	1
Dieldrin	ND		0.0047	0.0019	ug/L		05/24/14 07:12	05/27/14 21:02	1
Toxaphene	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 21:02	1
4,4'-DDD	ND		0.0047	0.0038	ug/L		05/24/14 07:12	05/27/14 21:02	1
4,4'-DDE	ND		0.0047	0.0028	ug/L		05/24/14 07:12	05/27/14 21:02	1
4,4'-DDT	ND		0.0095	0.0038	ug/L		05/24/14 07:12	05/27/14 21:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	58		35 - 115				05/24/14 07:12	05/27/14 21:02	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		05/24/14 07:12	05/27/14 16:16	1
Aroclor 1221	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 16:16	1
Aroclor 1232	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 16:16	1
Aroclor 1242	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 16:16	1
Aroclor 1248	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 16:16	1
Aroclor 1254	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 16:16	1
Aroclor 1260	ND		0.47	0.24	ug/L		05/24/14 07:12	05/27/14 16:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	57		45 - 120				05/24/14 07:12	05/27/14 16:16	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	800		0.33	0.17	mg/L			06/03/14 11:34	1

Method Summary

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

TestAmerica Job ID: 440-79009-1

Method	Method Description	Protocol	Laboratory
525.2	Semivolatile Organic Compounds (GC/MS)	EPA	TAL IRV
608	Organochlorine Pesticides in Water	40CFR136A	TAL IRV
608	Polychlorinated Biphenyls (PCBs) (GC)	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: 440-79009-1

Client Sample ID: ArroyoSimi-20140521

Lab Sample ID: 440-79009-1

Date Collected: 05/21/14 09:05

Matrix: Water

Date Received: 05/21/14 19:51

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			1050 mL	1 mL	184057	05/21/14 21:25	EE	TAL IRV
Total/NA	Analysis	525.2		1	1050 mL	1 mL	184662	05/23/14 18:02	CP	TAL IRV
Total/NA	Prep	608			1055 mL	2 mL	184757	05/24/14 07:12	AC	TAL IRV
Total/NA	Analysis	608		1	1055 mL	2 mL	184947	05/27/14 21:02	KS	TAL IRV
Total/NA	Prep	608			1055 mL	2 mL	184757	05/24/14 07:12	AC	TAL IRV
Total/NA	Analysis	608		1	1055 mL	2 mL	184963	05/27/14 16:16	JM	TAL IRV
Total Recoverable	Analysis	SM 2340B		1			185266	06/03/14 11:34	DT	TAL IRV

Laboratory References:

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

QC Sample Results

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

TestAmerica Job ID: 440-79009-1

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

Lab Sample ID: MB 440-184057/1-A

Matrix: Water

Analysis Batch: 184261

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorpyrifos	ND		1.0	0.50	ug/L		05/21/14 21:25	05/22/14 14:35	1
Diazinon	ND		0.25	0.12	ug/L		05/21/14 21:25	05/22/14 14:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dimethyl-2-nitrobenzene	95		70 - 130	05/21/14 21:25	05/22/14 14:35	1
Perylene-d12	94		70 - 130	05/21/14 21:25	05/22/14 14:35	1
Triphenylphosphate	94		70 - 130	05/21/14 21:25	05/22/14 14:35	1

Lab Sample ID: MB 440-184057/1-A

Matrix: Water

Analysis Batch: 184662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 184057

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorpyrifos	ND		1.0	0.50	ug/L		05/21/14 21:25	05/23/14 17:07	1
Diazinon	ND		0.25	0.12	ug/L		05/21/14 21:25	05/23/14 17:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dimethyl-2-nitrobenzene	95		70 - 130	05/21/14 21:25	05/23/14 17:07	1
Perylene-d12	94		70 - 130	05/21/14 21:25	05/23/14 17:07	1
Triphenylphosphate	94		70 - 130	05/21/14 21:25	05/23/14 17:07	1

Lab Sample ID: LCS 440-184057/2-A

Matrix: Water

Analysis Batch: 184261

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 184057

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Chlorpyrifos	5.00	5.28		ug/L		106	70 - 130
Diazinon	5.00	5.18		ug/L		104	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,3-Dimethyl-2-nitrobenzene	101		70 - 130
Perylene-d12	102		70 - 130
Triphenylphosphate	97		70 - 130

Lab Sample ID: LCSD 440-184057/3-A

Matrix: Water

Analysis Batch: 184261

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 184057

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chlorpyrifos	5.00	5.40		ug/L		108	70 - 130	2	30
Diazinon	5.00	5.47		ug/L		109	70 - 130	5	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1,3-Dimethyl-2-nitrobenzene	107		70 - 130
Perylene-d12	100		70 - 130
Triphenylphosphate	104		70 - 130

TestAmerica Irvine

QC Sample Results

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

TestAmerica Job ID: 440-79009-1

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 440-184757/1-A
Matrix: Water
Analysis Batch: 184947

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 184757

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.10	0.080	ug/L		05/24/14 07:12	05/27/14 17:33	1
Dieldrin	ND		0.0050	0.0020	ug/L		05/24/14 07:12	05/27/14 17:33	1
Toxaphene	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 17:33	1
4,4'-DDD	ND		0.0050	0.0040	ug/L		05/24/14 07:12	05/27/14 17:33	1
4,4'-DDE	ND		0.0050	0.0030	ug/L		05/24/14 07:12	05/27/14 17:33	1
4,4'-DDT	ND		0.010	0.0040	ug/L		05/24/14 07:12	05/27/14 17:33	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	63		35 - 115	05/24/14 07:12	05/27/14 17:33	1

Lab Sample ID: LCS 440-184757/2-A
Matrix: Water
Analysis Batch: 184947

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 184757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	0.200	0.160		ug/L		80	55 - 115
4,4'-DDD	0.200	0.178		ug/L		89	55 - 120
4,4'-DDE	0.200	0.178		ug/L		89	50 - 120
4,4'-DDT	0.200	0.163		ug/L		81	55 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	58		35 - 115

Lab Sample ID: 440-78920-I-5-A MS
Matrix: Water
Analysis Batch: 184947

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 184757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	ND		0.207	0.188		ug/L		90	50 - 120
4,4'-DDD	ND		0.207	0.199		ug/L		96	50 - 125
4,4'-DDE	ND		0.207	0.208		ug/L		100	45 - 125
4,4'-DDT	ND		0.207	0.196		ug/L		94	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	66		35 - 115

Lab Sample ID: 440-78920-I-5-B MSD
Matrix: Water
Analysis Batch: 184947

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 184757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dieldrin	ND		0.189	0.162		ug/L		86	50 - 120	14	30
4,4'-DDD	ND		0.189	0.179		ug/L		95	50 - 125	10	30
4,4'-DDE	ND		0.189	0.179		ug/L		95	45 - 125	15	30
4,4'-DDT	ND		0.189	0.172		ug/L		91	50 - 125	13	30

TestAmerica Irvine

QC Sample Results

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

TestAmerica Job ID: 440-79009-1

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: 440-78920-I-5-B MSD
 Matrix: Water
 Analysis Batch: 184947

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Total/NA
 Prep Batch: 184757

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
Tetrachloro-m-xylene	65		35 - 115

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

Lab Sample ID: MB 440-184757/1-A
 Matrix: Water
 Analysis Batch: 184963

Client Sample ID: Method Blank
 Prep Type: Total/NA
 Prep Batch: 184757

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Aroclor 1016	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1
Aroclor 1221	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1
Aroclor 1232	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1
Aroclor 1242	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1
Aroclor 1248	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1
Aroclor 1254	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1
Aroclor 1260	ND		0.50	0.25	ug/L		05/24/14 07:12	05/27/14 13:23	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl (Surr)	80		45 - 120	05/24/14 07:12	05/27/14 13:23	1

Lab Sample ID: LCS 440-184757/5-A
 Matrix: Water
 Analysis Batch: 184963

Client Sample ID: Lab Control Sample
 Prep Type: Total/NA
 Prep Batch: 184757

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec.
		Result	Qualifier				
Aroclor 1016	1.00	0.956		ug/L		96	50 - 115
Aroclor 1260	1.00	0.894		ug/L		89	60 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	83		45 - 120

Lab Sample ID: 440-78920-H-5-A MS
 Matrix: Water
 Analysis Batch: 184963

Client Sample ID: Matrix Spike
 Prep Type: Total/NA
 Prep Batch: 184757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec.
				Result	Qualifier				
Aroclor 1016	ND		1.04	0.988		ug/L		95	45 - 120
Aroclor 1260	ND		1.04	0.934		ug/L		90	55 - 125

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
DCB Decachlorobiphenyl (Surr)	87		45 - 120

QC Sample Results

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

TestAmerica Job ID: 440-79009-1

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

Lab Sample ID: 440-78920-H-5-B MSD

Matrix: Water

Analysis Batch: 184963

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 184757

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec.	RPD	Limit
	Result	Qualifier	Added	Result	Qualifier				Limits		
Aroclor 1016	ND		1.02	0.969		ug/L		95	45 - 120	2	30
Aroclor 1260	ND		1.02	0.917		ug/L		90	55 - 125	2	25
		<i>MSD</i>	<i>MSD</i>								
Surrogate		%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl (Surr)		88		45 - 120							

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QC Association Summary

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

TestAmerica Job ID: 440-79009-1

GC/MS Semi VOA

Prep Batch: 184057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-79009-1	ArroyoSimi-20140521	Total/NA	Water	525.2	
LCS 440-184057/2-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 440-184057/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MB 440-184057/1-A	Method Blank	Total/NA	Water	525.2	

Analysis Batch: 184261

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-184057/2-A	Lab Control Sample	Total/NA	Water	525.2	184057
LCSD 440-184057/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	184057
MB 440-184057/1-A	Method Blank	Total/NA	Water	525.2	184057

Analysis Batch: 184662

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-79009-1	ArroyoSimi-20140521	Total/NA	Water	525.2	184057
MB 440-184057/1-A	Method Blank	Total/NA	Water	525.2	184057

GC Semi VOA

Prep Batch: 184757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-78920-H-5-A MS	Matrix Spike	Total/NA	Water	608	
440-78920-H-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	608	
440-78920-I-5-A MS	Matrix Spike	Total/NA	Water	608	
440-78920-I-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	608	
440-79009-1	ArroyoSimi-20140521	Total/NA	Water	608	
LCS 440-184757/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 440-184757/5-A	Lab Control Sample	Total/NA	Water	608	
MB 440-184757/1-A	Method Blank	Total/NA	Water	608	

Analysis Batch: 184947

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-78920-I-5-A MS	Matrix Spike	Total/NA	Water	608	184757
440-78920-I-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	608	184757
440-79009-1	ArroyoSimi-20140521	Total/NA	Water	608	184757
LCS 440-184757/2-A	Lab Control Sample	Total/NA	Water	608	184757
MB 440-184757/1-A	Method Blank	Total/NA	Water	608	184757

Analysis Batch: 184963

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-78920-H-5-A MS	Matrix Spike	Total/NA	Water	608	184757
440-78920-H-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	608	184757
440-79009-1	ArroyoSimi-20140521	Total/NA	Water	608	184757
LCS 440-184757/5-A	Lab Control Sample	Total/NA	Water	608	184757
MB 440-184757/1-A	Method Blank	Total/NA	Water	608	184757

Metals

Analysis Batch: 185266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-79009-1	ArroyoSimi-20140521	Total Recoverable	Water	SM 2340B	

TestAmerica Irvine

Definitions/Glossary

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

TestAmerica Job ID: 440-79009-1

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: 440-79009-1

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	06-30-14 *
Arizona	State Program	9	AZ0671	10-13-14
California	LA Cty Sanitation Districts	9	10256	01-31-15
California	State Program	9	2706	06-30-14 *
Guam	State Program	9	Cert. No. 12.002r	01-23-15
Hawaii	State Program	9	N/A	01-29-15 *
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-29-15
Northern Mariana Islands	State Program	9	MP0002	01-31-14 *
Oregon	NELAP	10	4005	01-29-15
USDA	Federal		P330-09-00080	06-06-15
USEPA UCMR	Federal	1	CA01531	01-31-15

* Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

CHAIN OF CUSTODY FORM

Test America Version 7/19/2010

Client Name/Address: Haley & Aldrich, Inc. 9040 Friars Road Suite 220 San Diego, CA 92108-5860		Project: Boeing-SSFL NPDES Quarterly Arroyo Simi-Frontier Park		ANALYSIS REQUIRED		Sampler: Daniel Smith Field readings: (Include units) Time of readings: 0835 pH: 6.98 pH unit Temp: 18.28 °C/F Velocity: 0 ft/sec Field readings QC Checked by: <i>the Domain</i> Date/Time: 5/21/14 0915			
Test America Contact: Debby Wilson		Phone Number: 619.285.7132, 858.337.4061 (cell) Field Manager: Jeff Bannon 818.350.7340, 818.414.5608 (cell)		Chlorpyrifos, Diazinon (525.2) Chlordane, Dieldrin, Toxaphene (608), 4,4-DDD, 4,4-DDE, 4,4-DDT		Comments			
Project Manager: Nancy Gardiner		Hardness as CaCO ₃		PCBs (608)		Extract within 36-Hours of sampling			
Sample Description	Sample Matrix	Container Type	# of Cont.	Sample I.D.	Sampling Date	Sampling Time	Preservative	Bottle #	
Arroyo Simi	W	1L Poly	1	ArroyoSimi-20140521	05/21/14	0850	HNO ₃	1	
Arroyo Simi	W	1L Amber	2	ArroyoSimi-20140521	05/21/14	0855	None	2A, 2B	
Arroyo Simi	W	1L Amber	2	ArroyoSimi-20140521	05/21/14	0900	HCl	3A, 3B	
Arroyo Simi	W	1L Amber	2	ArroyoSimi-20140521	05/21/14	0905	None	4A, 4B	
Relinquished By: <i>[Signature]</i> Date/Time: 5/21/14 1125		Relinquished By: <i>Shahida NABI</i> Date/Time: 5/21/14 1988		Relinquished By: <i>Ramky</i> Date/Time: 5.21.14 1988		Relinquished By: _____ Date/Time: _____		Turn around Time: (check) _____ 24 Hours _____ 5 Days _____ 48 Hours _____ 10 Days _____ 72 Hours _____ Normal _____ Sample Integrity: (check) _____ On Ice: _____ Data Requirements: (check) _____ No Level IV _____ All Level IV _____ NPDES Level IV _____	



Login Sample Receipt Checklist

Client: Haley & Aldrich, Inc.

Job Number: 440-79009-1

Login Number: 79009

List Number: 1

Creator: King, Ronald

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is \leq 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 <math><6\text{mm}</math> (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

