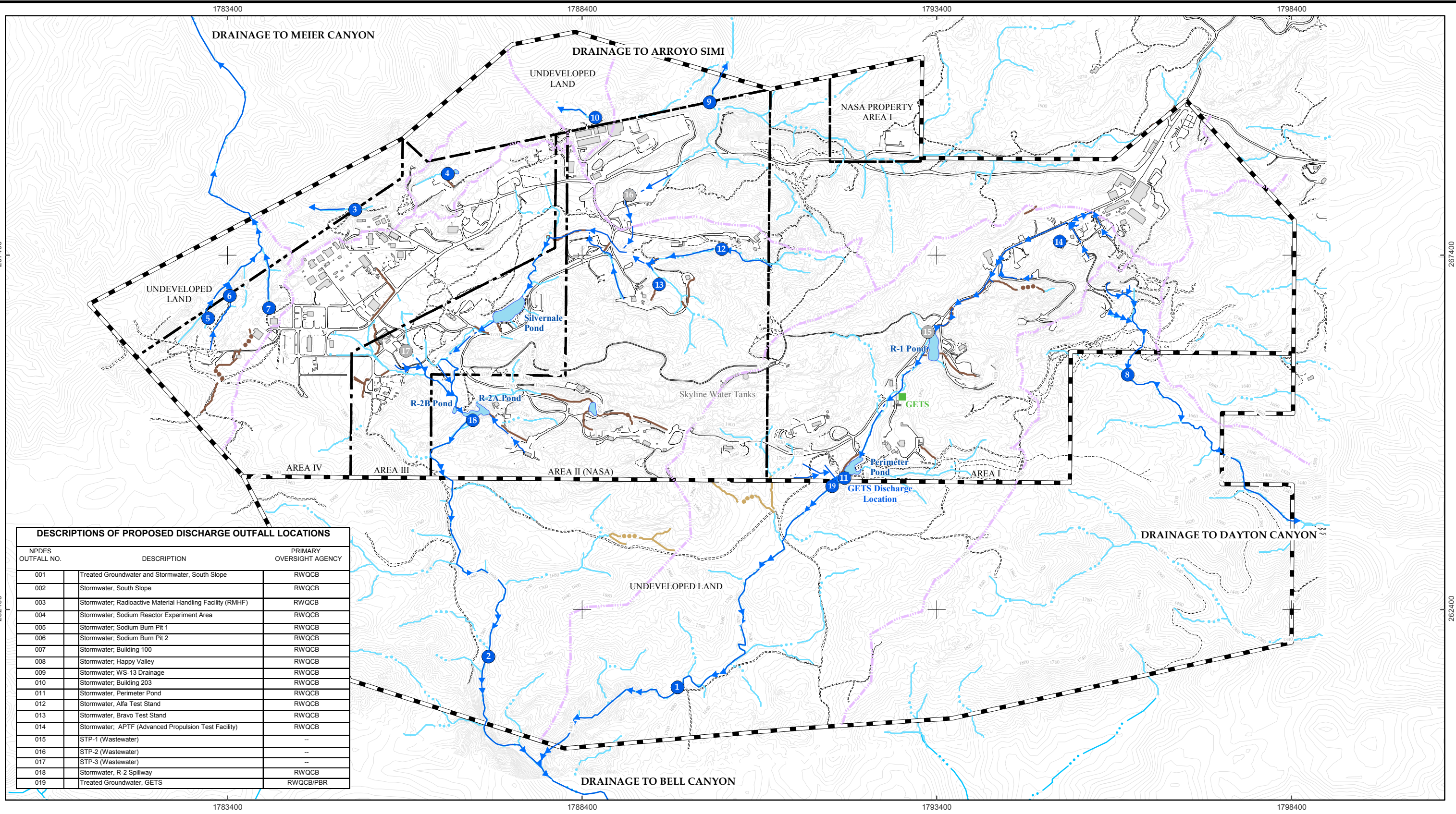


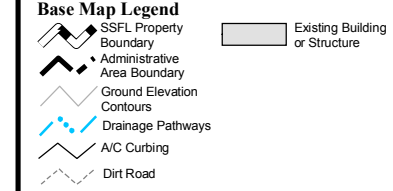
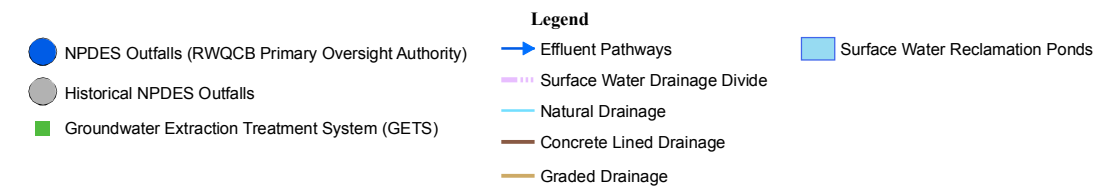
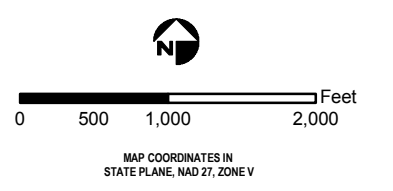
FIGURE 1

STORM WATER DRAINAGE SYSTEM AND OUTFALL LOCATIONS



DESCRIPTIONS OF PROPOSED DISCHARGE OUTFALL LOCATIONS

NPDES OUTFALL NO.	DESCRIPTION	PRIMARY OVERSIGHT AGENCY
001	Treated Groundwater and Stormwater, South Slope	RWQCB
002	Stormwater, South Slope	RWQCB
003	Stormwater; Radioactive Material Handling Facility (RMHF)	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	RWQCB
010	Stormwater; Building 203	RWQCB
011	Stormwater, Perimeter Pond	RWQCB
012	Stormwater, Alfa Test Stand	RWQCB
013	Stormwater, Bravo Test Stand	RWQCB
014	Stormwater; APTF (Advanced Propulsion Test Facility)	RWQCB
015	STP-1 (Wastewater)	--
016	STP-2 (Wastewater)	--
017	STP-3 (Wastewater)	--
018	Stormwater, R-2 Spillway	RWQCB
019	Treated Groundwater, GETS	RWQCB/PBR



Site Map with Outfall Locations and Storm Water Drainage Systems

Date: Jan 28, 2008
 File: T:\projects\rock\plots\acmap\1\00X\Draft\NPDES.mxd

MWH **FIGURE 1**

APPENDIX A

THIRD QUARTER 2009 RAINFALL DATA SUMMARY

APPENDIX B

THIRD QUARTER 2009 LIQUID WASTE SHIPMENTS SUMMARY
TABLES

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS
July 2009**

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
7/7/2009	HAZARDOUS WASTE LIQUID (SOIL, TRICHLOROETHENE, WATER)	12	CY.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	CHEMICAL WASTE MANAGEMENT 35251 OLD SKYLINE RD. KETTLEMAN CITY, CA. 93239
7/8/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
7/8/2009	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
7/8/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson
7/8/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	39700	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/15/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41020	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/20/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	38500	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/22/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
7/22/2009	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
7/22/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson
7/22/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41120	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/23/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	40980	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/24/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41960	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/24/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	40740	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/27/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	40880	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/27/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41560	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/28/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41340	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058

**TABLE B-1
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS
July 2009**

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
7/28/2009	NON-RCRA HAZARDOUS WASTE LIQUID (OIL, WATER)	738	LBS	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702
7/28/2009	WASTE KEROSENE (KEROSENE)	41	LBS.	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702
7/28/2009	NON-RCRA HAZARDOUS WASTE LIQUID (OIL, WATER)	241	LBS.	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702
7/28/2009	POLYCHLORINATED BIPHENYLS	8	KG.	VEOLIA ENVIRONMENTAL SERVICES INC. 5736 WEST JEFFERSON ST. PHOENIX, AZ. 85043	VEOLIA ENVIRONMENTAL SERVICES INC. 5736 WEST JEFFERSON ST. PHOENIX, AZ. 85043
7/30/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41540	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
7/31/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	34960	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058

**TABLE B-2
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS
August 2009**

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
8/3/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41000	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
8/4/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41720	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
8/5/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
8/5/2009	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
8/5/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson
8/6/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	41260	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
8/7/2009	HAZARDOUS WASTE LIQUID (TRICHLOROETHENE)	13360	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	SIEMENS WATER TECHNOLOGIES 5375 S. BOYLE AVE. LOS ANGELES, CA. 90058
8/13/2009	NON-RCRA HAZARDOUS WASTE LIQUID	5140	LBS.	MP ENVIRONMENTAL SERVICES 3400 MANOR STREET, BAKERSFIELD, CA 93308	VEOLIA ENVIRONMENTAL SERVICES INC. 5736 WEST JEFFERSON ST. PHOENIX, AZ. 85043
8/19/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
8/19/2009	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
8/19/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson

**TABLE B-3
THE BOEING COMPANY**

**NPDES PERMIT CA0001309
LIQUID WASTE SHIPMENTS
September 2009**

DATE SHIPPED	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
9/3/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
9/3/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
9/3/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson
9/3/2009	FLAMMABLE LIQUIDS (LUBRICANT, OIL, FUEL OIL, LUBRICATING OIL)	1816	LBS.	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702
9/3/2009	NON-RCRA HAZARDOUS WASTE LIQUID (OIL, WATER)	960	LBS.	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702	VEOLIA ENVIRONMENTAL SERVICES INC. 1704 W. FIRST ST. AZUSA, CA. 91702
9/16/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
9/16/2009	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
9/16/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson
9/30/2009	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
9/30/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Saugus
9/30/2009	WASTE WATER FROM AREA III SEWAGE TREATMENT PLANT	5000	GAL.	SOUTHWEST PROCESSORS INC. 4120 BANDINI BLVD. LOS ANGELES, CA.	LACSD Carson

APPENDIX C

THIRD QUARTER 2009 SUMMARY TABLES,
RECEIVING WATER SAMPLING DATA (ARROYO SIMI)

ARROYO SIMI (Frontier Park Receiving Water)

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

July 1 through September 31, 2009

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

APPENDIX D
TABLE OF CONTENTS (1 of 1)

Section No.

- 1 Arroyo Simi, August 27, 2009 - MEC^X Data Validation Reports
- 2 Arroyo Simi, August 27, 2009 - Test America Analytical Laboratory Report

APPENDIX D

Section 1

Arroyo Simi, August 27, 2009

MEC^X Data Validation Reports



DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: ISH2382

Prepared by

MEC^x, LP
12269 East Vassar Drive
Aurora, CO 80014

I. INTRODUCTION

Task Order Title: Boeing SSFL NPDES
Contract Task Order: 1261.100D.00
Sample Delivery Group: ISH2382
Project Manager: B. Kelly
Matrix: Water
QC Level: IV
No. of Samples: 1
No. of Reanalyses/Dilutions: 0
Laboratory: TestAmerica-Irvine

Table 1. Sample Identification

Client ID	Laboratory ID	Sub-Laboratory ID	Matrix	Collected	Method
Arroyo Simi-FP	ISH2382-01	CHS0766-001	Water	08/27/09 1000	200.7, 525.2, SM2540D

II. Sample Management

No anomalies were observed regarding sample management. The samples were received at TestAmerica-Irvine and TestAmerica-Ontario within the temperature limit of $4 \pm 2^{\circ}\text{C}$. No other sample receipt information was provided by either laboratory. TestAmerica-Irvine personnel did not date the transfer COC. The COCs were otherwise appropriately signed and dated by field and/or laboratory personnel. If necessary, the client ID was added to the sample result summary by the reviewer.

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.	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 associated value is an estimated quantity.
N	The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification."	Not applicable.
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.
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.
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.
Q	MS/MSD recovery was poor or RPD high.	MS recovery was poor.
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.

Qualification Code Reference Table Cont.

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 METHOD 200.7—Metals

Reviewed By: P. Meeks

Date Reviewed: September 23, 2009

The sample listed in Table 1 for these analyses 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 2007*, and the *National Functional Guidelines for Inorganic Data Review (10/04)*.

- Holding Times: The analytical holding time, 180 days for ICP metals, was met.
- Tuning: Not applicable to this method.
- Calibration: Calibration criteria were met. Initial and continuing calibration recoveries were within 90-110%. The CRI and CRA check standards were not applicable as the sample results were significantly larger than the reporting limits.
- Blanks: There were no detects in the method blanks or CCBs.
- Interference Check Samples: Recoveries were within the method-established control limits.
- Blank Spikes and Laboratory Control Samples: The recoveries were within the laboratory-established QC limits.
- Laboratory Duplicates: No laboratory duplicate analysis was performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy was evaluated based on LCS results.
- Serial Dilution: No serial dilution analyses were performed on the sample in this SDG.
- Internal Standards Performance: Not applicable to this method.
- Sample Result Verification: Calculations were verified and the sample results reported on the sample result summaries were verified against the raw data. No transcription errors or calculation errors were noted. Detects 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 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.

B. EPA METHOD 525.2—Semivolatile Organic Compounds (SVOCs)

Reviewed By: P. Meeks

Date Reviewed: September 23, 2009

The sample listed in Table 1 for this analysis was validated based on the guidelines outlined in the *MEC^X Data Validation Procedure for Semivolatile Organics (DVP-3, Rev. 0)*, *EPA Method 525.2*, and the *National Functional Guidelines for Organic Data Review (10/99)*.

- Holding Times: Extraction and analytical holding times were met. The water sample was extracted within 24 hours of collection and analyzed within 30 days of extraction.
- GC/MS Tuning: The DFTPP tunes met the method abundance criteria. The sample was analyzed within 12 hours of the DFTPP injection time.
- Calibration: Calibration criteria were met. The initial calibration average RRFs were ≥ 0.05 and %RSDs $\leq 30\%$. The continuing calibration RRFs were ≥ 0.05 and the recoveries were within the method QC limits of 70-130%.
- Blanks: The method blank had no applicable target compound detects above the MDL.
- Blank Spikes and Laboratory Control Samples: The recoveries and RPDs were within laboratory-established QC limits.
- Surrogate Recovery: Recoveries were within laboratory-established QC limits.
- Matrix Spike/Matrix Spike Duplicate: No MS/MSD analyses were performed on the sample in this SDG. Method accuracy and precision were evaluated based on the LCS/LCSD results.
- 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.
- Internal Standards Performance: The internal standard area counts and retention times were within the method control limits established by the continuing calibration standards of $\pm 30\%$.
- 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.
- 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.
- Tentatively Identified Compounds: TICs were not reported by the laboratory for this analysis.
- System Performance: Review of the raw data indicated no problems with system performance.

Validated Sample Result Forms: ISH2382

Analysis Method *EPA 200.7*

Sample Name Arroyo Simi **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ISH2382-01 **Sample Date:** 8/27/2009 10:00:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Calcium	7440-70-2	190	0.10	0.050	mg/l			
Magnesium	7439-95-4	59	0.020	0.012	mg/l			

Analysis Method *EPA 525.2*

Sample Name Arroyo Simi **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ISH2382-01 **Sample Date:** 8/27/2009 10:00:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Chlorpyrifos	2921-88-2	ND	1.0	0.10	ug/l		U	
Diazinon	333-41-5	ND	0.25	0.24	ug/l		U	

Analysis Method *SM2340B*

Sample Name Arroyo Simi **Matrix Type:** Water **Validation Level:** IV
Lab Sample Name: ISH2382-01 **Sample Date:** 8/27/2009 10:00:00 AM

Analyte	CAS No	Result Value	RL	MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes
Hardness as CaCO3		720	0.33	0.17	mg/l			

APPENDIX D

Section 2

Arroyo Simi, August 27, 2009

Test America Analytical Laboratory Report

LABORATORY REPORT

Prepared For: MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project: Quartely Arroyo Simi-Frontier
Park

Sampled: 08/27/09
Received: 08/27/09
Issued: 09/24/09 09:57

NELAP #01108CA California ELAP#2706 CSDLAC #10256 AZ #AZ0671 NV #CA01531

The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain of Custody, 1 page, is included and is an integral part of this report.

This entire report was reviewed and approved for release.

SAMPLE CROSS REFERENCE

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

ADDITIONAL INFORMATION: This is an Amended report to provide analyst's initials on the report.

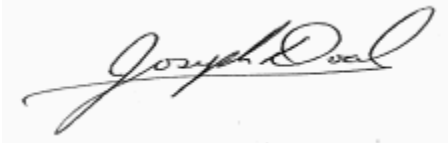
LABORATORY ID
ISH2382-01

CLIENT ID
Arroyo Simi-FP

MATRIX
Water

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.

Reviewed By:



TestAmerica Irvine

Joseph Doak
Project Manager

MWH-Pasadena/Boeing
 618 Michillinda Avenue, Suite 200
 Arcadia, CA 91007
 Attention: Bronwyn Kelly

Project ID: Quartely Arroyo Simi-Frontier Park

Report Number: ISH2382

Sampled: 08/27/09
 Received: 08/27/09

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: ISH2382-01 (Arroyo Simi-FP - Water)									
Reporting Units: ug/l									
4,4'-DDD	EPA 608	9H31001	0.0020	0.0050	ND	1	DXD	09/01/09	
4,4'-DDE	EPA 608	9H31001	0.0030	0.0050	ND	1	DXD	09/01/09	
4,4'-DDT	EPA 608	9H31001	0.0040	0.010	ND	1	DXD	09/01/09	
Dieldrin	EPA 608	9H31001	0.0020	0.0050	ND	1	DXD	09/01/09	
Chlordane	EPA 608	9H31001	0.040	0.10	ND	1	DXD	09/01/09	
Toxaphene	EPA 608	9H31001	0.25	0.50	ND	1	DXD	09/01/09	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					87 %				
<i>Surrogate: Tetrachloro-m-xylene (35-115%)</i>					61 %				

TestAmerica Irvine

Joseph Doak
 Project Manager

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MWH-Pasadena/Boeing
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 Arcadia, CA 91007
 Attention: Bronwyn Kelly

Project ID: Quartely Arroyo Simi-Frontier Park

Report Number: ISH2382

Sampled: 08/27/09
 Received: 08/27/09

TOTAL PCBS (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: ISH2382-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Aroclor 1016	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
Aroclor 1221	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
Aroclor 1232	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
Aroclor 1242	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
Aroclor 1248	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
Aroclor 1254	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
Aroclor 1260	EPA 608	9H31001	0.25	0.50	ND	1	DXD	08/31/09	
<i>Surrogate: Decachlorobiphenyl (45-120%)</i>					77 %				

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Project ID: Quartely Arroyo Simi-Frontier Park

Report Number: ISH2382

Sampled: 08/27/09
Received: 08/27/09

METALS

Analyte	Method	Batch		Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: ISH2382-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: mg/l									
Hardness as CaCO ₃	SM2340B	[CALC]		0.33	720	1	dp	08/28/09	
Calcium	EPA 200.7	9H28055	0.050	0.10	190	1	dp	08/28/09	
Magnesium	EPA 200.7	9H28055	0.012	0.020	59	1	dp	08/28/09	

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Project Manager

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MWH-Pasadena/Boeing
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 Attention: Bronwyn Kelly

Project ID: Quartely Arroyo Simi-Frontier Park

Report Number: ISH2382

Sampled: 08/27/09
 Received: 08/27/09

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Analyst	Date Analyzed	Data Qualifiers
Sample ID: ISH2382-01 (Arroyo Simi-FP - Water) - cont.									
Reporting Units: ug/l									
Chlorpyrifos	EPA 525.2	C9H2801	0.10	1.0	ND	1	AW	08/28/09	
Diazinon	EPA 525.2	C9H2801	0.24	0.25	ND	1	AW	08/28/09	
<i>Surrogate: 1,3-Dimethyl-2-nitrobenzene (70-130%)</i>					<i>101 %</i>				
<i>Surrogate: Triphenylphosphate (70-130%)</i>					<i>115 %</i>				
<i>Surrogate: Perylene-d12 (70-130%)</i>					<i>106 %</i>				

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Project ID: Quartely Arroyo Simi-Frontier Park

Report Number: ISH2382

Sampled: 08/27/09

Received: 08/27/09

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: Arroyo Simi-FP (ISH2382-01) - Water EPA 525.2	1	08/27/2009 10:00	08/27/2009 18:00	08/28/2009 09:00	08/28/2009 20:17

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MWH-Pasadena/Boeing
618 Michillinda Avenue, Suite 200
Arcadia, CA 91007
Attention: Bronwyn Kelly

Project ID: Quartely Arroyo Simi-Frontier Park

Report Number: ISH2382

Sampled: 08/27/09
Received: 08/27/09

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES (EPA 608)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9H31001 Extracted: 08/31/09										
Blank Analyzed: 09/01/2009 (9H31001-BLK1)										
4,4'-DDD	ND	0.0050	ug/l							
4,4'-DDE	ND	0.0050	ug/l							
4,4'-DDT	ND	0.010	ug/l							
Dieldrin	ND	0.0050	ug/l							
Chlordane	ND	0.10	ug/l							
Toxaphene	ND	0.50	ug/l							
Surrogate: Decachlorobiphenyl	0.497		ug/l	0.500		99	45-120			
Surrogate: Tetrachloro-m-xylene	0.399		ug/l	0.500		80	35-115			
LCS Analyzed: 09/01/2009 (9H31001-BS1)										
4,4'-DDD	0.367	0.0050	ug/l	0.500		73	55-120			MNR1
4,4'-DDE	0.330	0.0050	ug/l	0.500		66	50-120			
4,4'-DDT	0.391	0.010	ug/l	0.500		78	55-120			
Dieldrin	0.347	0.0050	ug/l	0.500		69	55-115			
Surrogate: Decachlorobiphenyl	0.408		ug/l	0.500		82	45-120			
Surrogate: Tetrachloro-m-xylene	0.250		ug/l	0.500		50	35-115			
LCS Dup Analyzed: 09/01/2009 (9H31001-BSD1)										
4,4'-DDD	0.389	0.0050	ug/l	0.500		78	55-120	6	30	
4,4'-DDE	0.360	0.0050	ug/l	0.500		72	50-120	9	30	
4,4'-DDT	0.419	0.010	ug/l	0.500		84	55-120	7	30	
Dieldrin	0.368	0.0050	ug/l	0.500		74	55-115	6	30	
Surrogate: Decachlorobiphenyl	0.427		ug/l	0.500		85	45-120			
Surrogate: Tetrachloro-m-xylene	0.269		ug/l	0.500		54	35-115			

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Report Number: ISH2382

Sampled: 08/27/09
 Received: 08/27/09

METHOD BLANK/QC DATA

TOTAL PCBS (EPA 608)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9H31001 Extracted: 08/31/09										
Blank Analyzed: 08/31/2009 (9H31001-BLK1)										
Aroclor 1016	ND	0.50	ug/l							
Aroclor 1221	ND	0.50	ug/l							
Aroclor 1232	ND	0.50	ug/l							
Aroclor 1242	ND	0.50	ug/l							
Aroclor 1248	ND	0.50	ug/l							
Aroclor 1254	ND	0.50	ug/l							
Aroclor 1260	ND	0.50	ug/l							
Surrogate: Decachlorobiphenyl	0.415		ug/l	0.500		83	45-120			
LCS Analyzed: 08/31/2009 (9H31001-BS2)										
Aroclor 1016	3.47	0.50	ug/l	4.00		87	50-115			
Aroclor 1260	3.56	0.50	ug/l	4.00		89	60-120			
Surrogate: Decachlorobiphenyl	0.409		ug/l	0.500		82	45-120			
LCS Dup Analyzed: 08/31/2009 (9H31001-BSD2)										
Aroclor 1016	2.51	0.50	ug/l	4.00		63	50-115	32	30	R-7
Aroclor 1260	3.20	0.50	ug/l	4.00		80	60-120	11	25	
Surrogate: Decachlorobiphenyl	0.424		ug/l	0.500		85	45-120			
Matrix Spike Analyzed: 08/31/2009 (9H31001-MS1)										
					Source: ISH2451-01					
Aroclor 1016	3.94	0.51	ug/l	4.04	ND	98	45-120			A-01
Aroclor 1260	2.48	0.51	ug/l	4.04	ND	61	55-125			
Surrogate: Decachlorobiphenyl	0.237		ug/l	0.505		47	45-120			
Matrix Spike Dup Analyzed: 08/31/2009 (9H31001-MSD1)										
					Source: ISH2451-01					
Aroclor 1016	3.95	0.51	ug/l	4.08	ND	97	45-120	0	30	A-01
Aroclor 1260	2.83	0.51	ug/l	4.08	ND	69	55-125	13	25	
Surrogate: Decachlorobiphenyl	0.306		ug/l	0.510		60	45-120			

TestAmerica Irvine

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Sampled: 08/27/09
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METHOD BLANK/QC DATA

METALS

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: 9H28055 Extracted: 08/28/09										
Blank Analyzed: 08/28/2009 (9H28055-BLK1)										
Calcium	ND	0.10	mg/l							
Magnesium	ND	0.020	mg/l							
LCS Analyzed: 08/28/2009 (9H28055-BS1)										
Calcium	2.64	0.10	mg/l	2.50		105	85-115			
Magnesium	2.67	0.020	mg/l	2.50		107	85-115			
Matrix Spike Analyzed: 08/28/2009 (9H28055-MS1) Source: ISH2302-02										
Calcium	74.0	0.10	mg/l	2.50	73.1	36	70-130			MHA
Magnesium	42.4	0.020	mg/l	2.50	41.6	31	70-130			MHA
Matrix Spike Dup Analyzed: 08/28/2009 (9H28055-MSD1) Source: ISH2302-02										
Calcium	76.3	0.10	mg/l	2.50	73.1	128	70-130	3	20	MHA
Magnesium	45.3	0.020	mg/l	2.50	41.6	147	70-130	7	20	MHA

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Report Number: ISH2382

Sampled: 08/27/09
Received: 08/27/09

METHOD BLANK/QC DATA

ORGANIC COMPOUNDS BY GC/MS (EPA 525.2)

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Batch: C9H2801 Extracted: 08/28/09										
Blank Analyzed: 08/28/2009 (C9H2801-BLK1)										
Chlorpyrifos	ND	1.0	ug/l							
Diazinon	ND	0.25	ug/l							
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.89		ug/l	5.00		98	70-130			
Surrogate: Triphenylphosphate	5.13		ug/l	5.00		103	70-130			
Surrogate: Perylene-d12	3.87		ug/l	5.00		77	70-130			
LCS Analyzed: 08/31/2009 (C9H2801-BS1)										
Chlorpyrifos	6.11	1.0	ug/l	5.00		122	70-130			
Diazinon	6.15	0.25	ug/l	5.00		123	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.40		ug/l	5.00		88	70-130			
Surrogate: Triphenylphosphate	5.55		ug/l	5.00		111	70-130			
Surrogate: Perylene-d12	4.56		ug/l	5.00		91	70-130			
LCS Dup Analyzed: 08/28/2009 (C9H2801-BSD1)										
Chlorpyrifos	5.89	1.0	ug/l	5.00		118	70-130	4	10	
Diazinon	5.55	0.25	ug/l	5.00		111	70-130	10	39	
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.57		ug/l	5.00		91	70-130			
Surrogate: Triphenylphosphate	5.43		ug/l	5.00		109	70-130			
Surrogate: Perylene-d12	4.41		ug/l	5.00		88	70-130			
Matrix Spike Analyzed: 08/28/2009 (C9H2801-MS1)										
Source: CSH0656-01										
Chlorpyrifos	6.04	1.0	ug/l	5.00	ND	121	70-130			
Diazinon	6.09	0.25	ug/l	5.00	ND	122	70-130			
Surrogate: 1,3-Dimethyl-2-nitrobenzene	4.22		ug/l	5.00		84	70-130			
Surrogate: Triphenylphosphate	5.47		ug/l	5.00		109	70-130			
Surrogate: Perylene-d12	4.51		ug/l	5.00		90	70-130			

TestAmerica Irvine

Joseph Doak
Project Manager

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Report Number: ISH2382

Sampled: 08/27/09
Received: 08/27/09

DATA QUALIFIERS AND DEFINITIONS

- A-01** Due to matrix interference, the data was reprocessed in a different way as the calibration (4 peaks were used in the primary column).
- MHA** Due to high levels of analyte in the sample, the MS/MSD calculation does not provide useful spike recovery information. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- R-7** LFB/LFBD RPD exceeded the acceptance limit. Recovery met acceptance criteria.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

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Project Manager

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Report Number: ISH2382

Sampled: 08/27/09
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Certification Summary

TestAmerica Irvine

Method	Matrix	Nelac	California
EPA 200.7	Water	X	X
EPA 608	Water	X	X
SM2340B	Water	X	X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

TestAmerica - Ontario, CA *California Cert #1169, Arizona Cert #AZ0062, Nevada Cert #CA-242*

1014 E. Cooley Drive, Suite AB - Colton, CA 92324

Method Performed: EPA 525.2

Samples: ISH2382-01

TestAmerica Irvine

Joseph Doak
Project Manager

