



Via FedEx

November 11, 2013 In reply, refer to SHEA-114245

Regional Water Quality Control Board, Los Angeles Region 320 West 4th Street, Suite 200 Los Angeles, California 90013

Attention: Information Technology Unit

Subject: Third Quarter 2013 NPDES Discharge Monitoring Report

Compliance File CI-6027 and NPDES No. CA0001309

Santa Susana Field Laboratory

Simi Valley, California

The Boeing Company (Boeing) hereby submits this Discharge Monitoring Report (DMR) addressing activities related to the Santa Susana Field Laboratory (Santa Susana Site) stormwater outfalls (Figure 1) that occurred during the period of 1 July through 30 September 2013 (Third Quarter 2013). This DMR was prepared as required by and in accordance with National Pollutant Discharge Elimination System (NPDES) Permit No. CA0001309 (Permit) and under regulatory oversight of the Los Angeles Regional Water Quality Control Board (Regional Board). Included are summary tables of best management practices (BMPs), stormwater sample analytical results, rainfall quantities, liquid waste shipments, and laboratory analytical reports for stormwater samples.

Hard copies of this DMR are available to the public at California State University at Northridge Library; Simi Valley Library; and the Platt Branch of the Los Angeles Library. An electronic version of this DMR is located at:

http://www.boeing.com/aboutus/environment/santa susana/ents/monitoring reports.html

THIRD QUARTER 2013 DMR CONTENTS

This discharge monitoring report includes the following sections and appendices:

- Discharge Summary: This section describes the number of rain events, the number of samples collected, the sample date, and the sample location during Third Quarter 2013. Table I summarizes the Third Quarter 2013 sampling record by outfall, location, and sample type collected per the requirements of the NPDES Permit.
- Third Quarter 2013 Summary of Compliance: This section provides a summary of sample results that exceeded NPDES Permit limits in Third Quarter 2013.
- Third Quarter 2013 Santa Susana Site-wide Storm Water Pollution Prevention Plan (SWPPP)/BMP Activities: This section presents site-wide SWPPP activities and BMPs related to demolition, Interim Source Removal Actions (ISRA), the BMP Plan, Northern Drainage, and other



activities implemented in Third Quarter 2013. Table II summarizes specific BMP activities by outfall location.

- Data Validation and Quality Control: This section discusses data validation results and any laboratory or field corrective actions.
- Appendix A provides a summary of measured Third Quarter 2013 precipitation at the Santa Susana Site.
- Appendix B tabulates liquid waste shipment details.
- Appendix C presents chemical analytical results of Third Quarter 2013 stormwater samples in tabular form by outfall location, constituents evaluated (analytes), sample dates, and data validation qualifiers.
- Appendix D contains copies of laboratory analytical reports, chains of custody, and data validation reports.

Summary notes, abbreviations, and data validation codes used in the analytical data summary tables are included as flysheets in Appendices C and D.

DISCHARGE SUMMARY

The Santa Susana Site did not experience a rain event that produced greater than 0.1 inches of rainfall within a 24-hour period during Third Quarter 2013 (see Appendix A). No discharges occurred at any outfalls located at the Santa Susana Site, and therefore no samples were collected. One offsite stormwater sample was collected at the Arroyo Simi – Frontier Park (RSW-002) location in Simi Valley. Table I summarizes the Third Quarter 2013 sampling record by outfall, location, and sample type collected per the requirements of the NPDES Permit.

TABLE I: Sampling Record during Third Quarter 2013

Date	Outfall/Location	Samples Collected (i.e., grab, composite)
8/20/2013	Arroyo Simi Frontier Park –(RSW-002) – Quarterly	Grab

The sample was submitted to and analyzed by TestAmerica Laboratories, Inc., a California-certified analytical laboratory in Irvine, per the NPDES Permit requirements.

THIRD QUARTER 2013 SUMMARY OF COMPLIANCE

No stormwater discharges occurred from the Santa Susana Site during Third Quarter 2013. As such, there are no reportable compliance issues for this period. No constituents exceeded established receiving water limits in the quarterly sample collected at Arroyo Simi sample location RSW-002; Third Quarter 2013 sample results are therefore in full compliance.



THIRD QUARTER 2013 SITE-WIDE SWPPP/BMP ACTIVITIES

Boeing implemented significant SWPPP- and BMP-related activities to assist in improving storm water quality and compliance at the Santa Susana Site. Table II summarizes by outfall watershed the Santa Susana Site-wide SWPPP and specific BMP activities completed in Third Quarter 2013. Specific BMP projects include: demolition-related BMPs; Outfall 008/009 ISRA BMPs; BMP Plan-related BMPs; and Northern Drainage BMPs.

TABLE II: Boeing's Third Quarter 2013 BMP Activities

OUTFALL (Location)	BMP ACTIVITIES DURING THIRD QUARTER 2013
001 (South Slope below Perimeter Pond)	Inspected the outfall and flume for any excess sediment/debris. Observed sediment and erosion controls around the perimeter of the outfall and Outfall 001 drainage. Checked sample box and flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area and performed weed abatement.
002 (South Slope below R-2 Ponds)	Conducted sediment and erosion control inspections around the perimeter and at Outfall 002 drainage. Inspected outfall and flume for any excess sediment/debris. Cleaned sediment and debris from the flume and sample box. Checked flow meter control box for the presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Completed maintenance inspection and reset the automated composite sampling equipment (auto samplers). Cleaned sample box and the outfall area and performed weed abatement.
003 (Radioactive Material Handling Facility)	Conducted sediment and erosion control inspections. Inspected flume and sample box for any excess sediment/debris. Conducted maintenance inspections of the structural BMPs, including the stormwater retention basin and conveyance and filter systems. Checked sample box and flow meter control box for spiders and presence of debris and/or animals. Flow meter reset and tape replaced on a monthly basis. Cleaned sample box and the outfall area, performed weed abatement, and cleared vegetation.
004 (Sodium Reactor Experiment)	Inspected the flume, outfall, and liner for any excess sediment/debris. Conducted sediment and erosion control inspections near the outfall. Conducted maintenance inspections of the structural BMPs, including the stormwater retention system, and conveyance and filter systems. Completed inspection of dedicated retention tanks. Checked sample box and flow meter control box for the presence of debris and/or animals. Reset flow meter and replaced tape on a monthly basis. Cleaned sample box and the outfall area and performed weed abatement.
005 (Former Sodium Disposal Facility = 1)	Conducted sediment and erosion control inspections. Inspected the outfall and flume for any excess sediment/debris. Completed maintenance inspections of structural BMPs, including the conveyance and stormwater retention systems and sediment basin liner. Cleaned sample box and the outfall area and performed weed abatement.
006 (Former Sodium	Inspected the flume, outfall and liner for any excess sediment/debris Cleaned sample box and the outfall area and performed weed abatement



OUTFALL (Location)	BMP ACTIVITIES DURING THIRD QUARTER 2013
Disposal Facility - 2)	along the walking trail and in the media bed. Checked sample box and flow meter control box for the presence of debris and/or animals. Reset flow meter and replaced tape on a monthly basis. Conducted sediment and erosion control inspections near the outfall. Completed inspection of dedicated retention tanks. Completed maintenance inspections of the structural BMPs, including the stormwater retention and filter systems.
007 (Building 100)	Conducted sediment and erosion control inspections at the perimeter of Outfall 007. Observed sediment basin liner and outfall for any excess sediment/debris or deficiencies. Cleaned sample box and the outfall area and performed weed abatement. Completed maintenance inspections of the conveyance system, stormwater retention system, and sediment basin liner Checked high level float/switch in sedimentation basin. Completed inspection of dedicated retention tanks.
008 (Happy Valley)	Conducted sediment and erosion control inspections near the perimeter of the outfall and within the Outfall 008 drainage. Observed the outfall and flume for any excess sediment/debris, and cleared excess sediment from the flume. Checked sample box and flow meter control box for the presence of debris and/or animals. Reset flow meter and replaced tape on a monthly basis. Cleaned sample box and the outfall area and performed weed abatement.
009 (WS-13 Drainage)	Outfall BMPs: Checked sample box and flow meter control box for spiders and presence of rodents/animals. Reset flow meter and replaced tape on a monthly basis. The sample box and outfall area were cleaned, and weeding was conducted. Culvert Modification (CM)-9: Inspected riprap and culvert intake improvements made during Second Quarter 2013. Restoration, Monitoring and Mitigation Plan (RMMP) BMPs: Inspected plantings and pole cuttings in the Northern Drainage and replaced wate replenishment cartons at each plant. Selective weeding was performed a plantings to remove invasive species. Inspected structural BMPs. National Aeronautics and Space Administration (NASA) ISRA BMPs: Temporare BMPs (sand bag berms, fiber rolls, and plastic tarps) at Expendable Launch Vehicle (ELV)-1C were maintained during ISRA implementation. Portable pump, generator, and metal plate removed from temporary sand bag Berm A Continued construction of permanent BMPs in the ELV channel. Completed restoration and installation of temporary BMPs at Liquid Oxygen Plant (LOX ISRA areas. Lower Parking Lot BMP: Inspected plantings and implemented a watering plant Inspected sediment basin, including fiber rolls, the biofilter, including the
010 (Building 203)	riprap berm placed at the west end. Compacted fill, added gravel at the biofilter, and performed selective weeding. Conducted maintenance inspections of structural BMPs, including the filter media and conveyance and stormwater retention systems. Completed inspection of dedicated retention tanks. Maintained and inspected sediments.



OUTFALL (Location)	BMP ACTIVITIES DURING THIRD QUARTER 2013
	and erosion controls within areas of disturbance or sparse vegetation. Checked sample box and flow meter control box for the presence of debris and/or animals. Reset flow meter and replaced tape on a monthly basis. Cleaned sample box and the outfall area and performed weed abatement.
011 (Perimeter Pond)	Conducted maintenance inspections of structural BMPs, including the weir, filter media, and pump and conveyance systems. Conducted sediment and erosion control inspections at flume, drainage area, perimeter of outfall, pond, and around the conveyance system. Checked sample box and flow meter control box for the presence of debris and/or animals. Reset flow meter and replaced tape on a monthly basis. Cleaned sample box and the outfall area and performed weed abatement.
012 (Alfa Test Stand)	Conducted maintenance inspections of structural BMPs, including pump, conveyance system, and retention tank. Observed condition of the sand bag berm. Inspected outfall and perimeter for presence of rodents/animals. Cleaned sample box and the outfall area and performed weed abatement.
013 (Bravo Test Stand)	Conducted maintenance inspections of structural BMPs, including pump, conveyance system and retention tank. Observed condition of the sand bag berm. Inspected outfall and perimeter for presence of rodents/animals. Cleaned sample box and the outfall area and performed weed abatement.
014 (Advanced Propulsion Test Facility)	Conducted maintenance inspections of structural BMPs. Observed the condition and integrity of the liner and berm. Observed sediment and erosion control BMPs around outfall perimeter. Cleaned sample box and the outfall area and performed weed abatement.
018 (R-2 Spillway)	Conducted maintenance inspections of structural BMPs, including the filter media and conveyance system. Checked sample box and flow meter control box for the presence of debris and/or animals. Reset flow meter and replaced tape on a monthly basis. Cleaned sample box and the outfall area and performed weed abatement. Inspected post-demo BMPs implemented at B4011, B4006, L85 Area, and the former compressed gases storage facility near Silvernale Pond, including sand bags, rip rap, gravel, and fiber rolls.
019 (Area Groundwater Extraction [GET] System)	The system has remained off since the completion of the RD-10 pump test on April 14, 2013. No NPDES sampling was performed in the Third Quarter 2013 at the Area I GET System. No water was pumped or discharged from WS-9A in the Third Quarter 2013.
RSW-002 (Arroyo Simi- Frontier Park)	Collected receiving water sample at Arroyo Simi – Frontier Park location. Conducted monthly receiving water inspections.

Boeing also continued to implement the individual SWPPPs during Third Quarter 2013 and BMP inspections were completed in accordance with the State of California Construction General Permit requirements.



Efforts to plan and implement BMPs for pre- and post-soil disturbance activities in construction/demolition and ISRA areas are discussed further below. Demolition projects comprise areas of disturbed soil from recent demolition and post-demolition restoration. ISRA areas are those subject to ongoing soil removal and/or remediation, post-remediation, and restoration activities.

Demolition-Related BMP Activities

Previously active areas are being demolished and prepared for restoration in an effort to return the Santa Susana Site back to its natural habitat. Demolition activities are ongoing at several facility locations, but have ceased within Area IV. Debris, metal, concrete, and asphalt are segregated upon demolition and transported to a waste or recycling facility per Boeing's waste management plan and in accordance with local, state, and federal regulations. Construction BMPs are implemented before, during, and after demolition activities.

Restoration activities, including the installation of erosion and sediment control BMPs, are conducted following the completion of demolition activities. Third Quarter 2013 restoration BMPs included the installation of fiber rolls, riprap channels, and sand bags. As part of the long-term BMP maintenance plan, the sand bags are removed once vegetation has returned. Hydroseed and hydromulch placed on these areas in Second Quarter 2013 were inspected during Third Quarter 2013 to monitor growth. Boeing will continue demolition activities to remove impervious surfaces and reduce stormwater runoff, implement BMPs to address erosion and sedimentation, and return the Santa Susana Site to its natural habitat.

Outfall 008/009 ISRA and BMP Plan-Related Activities

Boeing continued ISRA activities in the Outfall 008 and 009 watersheds during Third Quarter 2013 to address constituents in soil that may contribute to NPDES Permit limit/benchmark exceedances in stormwater. ISRA soil removal within Outfall 008 was completed on 19 October 2009, and ISRA soil removal conducted within the Outfall 009 watershed continued during Third Quarter 2013. ISRA Implementation reports are submitted to the Regional Board summarizing all ISRA activities for each phase of work performed 1.

The Stormwater Expert Panel (Expert Panel) prepared BMP plans and submittals on behalf of NASA and Boeing to meet Outfall 008/009 Permit limits/benchmarks established in the NPDES Permit (Order No. R4-2010-0090). These plans are considered conceptual designs and recommendations for BMPs which were identified based on an evaluation of NPDES Permit compliance and ISRA/BMP stormwater monitoring results. The following BMP plans have been submitted to the Regional Board and are located on Boeing's Santa Susana Site webpage under Outfall 008/009 ISRA and BMP related activities ²:

- 2010 BMP Plan Outfalls 008 and 009 BMP Watersheds (MWH et al., 2010);
- 2011 BMP Plan Addendum (Geosyntec and the Expert Panel, 2011); and
- 2012 BMP Plan Addendum (Geosyntec and the Expert Panel, 2012).

¹ Available at: http://www.boeing.com/boeing/aboutus/environment/santa_susana/isra.page

² Available at: http://www.boeing.com/boeing/aboutus/environment/santa_susana/isra.page



All completed Expert Panel-recommended BMPs are discussed in the ISRA Performance Monitoring and BMP Monitoring Report for Outfalls 008 and 009 Watersheds and submitted to the Regional Board for each rainy season (Boeing, 2012). These BMPs are also outlined in agency biweekly meetings and special Santa Susana Site walks with the public, Regional Board, and other agencies to demonstrate Boeing and NASA's commitment to achieve the water quality requirements of the NPDES Permit.

The BMP activities discussed below were performed, commenced, or completed during Third Quarter 2013 in coordination with the Expert Panel.

A. Lower Parking Lot BMP

The Lower Parking Lot BMP is a stormwater treatment BMP designed and built to capture, convey, and treat stormwater runoff from the lower lot and Instrument and Equipment Laboratories (IEL) watersheds. The need for a treatment BMP at the Lower Parking Lot BMP was first proposed in the 2010 BMP Plan (MWH et al., 2010). The Lower Parking Lot BMP consists of a 30,000-gallon cistern, a stormwater conveyance line, a sediment basin, and a media biofilter. Ventura County inspectors conducted building and grading inspections at various periods during the construction of the Lower Parking Lot BMP. Construction activities were completed on 15 March 2013 and a Regional Board and public tour of the completed Lower Parking Lot BMP was conducted on 20 March 2013.

Third Quarter 2013 activities included an inspection to verify that the sedimentation basin and biofilter were free of sediment and debris, a check of the cistern area and pump, and an inspection of the respective BMPs placed during Second Quarter 2013.

B. NASA ELV BMPs

The bidding process for the NASA ELV BMPs was completed in May 2013, and construction activities for the BMPs and drainage improvements at the ELV channel commenced in June 2013. The purpose of these stormwater BMPs is to improve stormwater quality from the ELV area before it is conveyed to Outfall 009.

Construction activities completed in Third Quarter 2013 included removal of the asphalt drainage swale, placement of geotextile and straw wattles, installation of a wet well near Helipad Road, trenching for a stormwater conveyance line, and placement of a gravel surface for stormwater storage tanks, and hydroseeding (twice). Three storage tanks, two with tube settlers and one containing filter media, were also installed in the area.

C. CM-9 Upgrades

CM-9 upgrades were recommended in the 2012 BMP Plan Addendum and construction of these upgrades was completed in March 2013. The purpose of these BMPs is to slow road runoff, reduce erosion along roadway slopes into the CM-9 runoff inlet, and provide additional infiltration upstream of CM-9. The need for improvements to the CM-9 media filter will be further evaluated in the next rainy season.



D. Third Quarter 2013 NASA and Boeing ISRA Activities

In addition to activities performed in coordination with the Expert Panel, the following ISRA activities were performed for Outfall 008/009 during Third Quarter 2013:

- Sampling and ISRA Implementation:
 - Completed restoration and installation of temporary BMPs at the former LOX ISRA areas;
 - Completed planned excavation activities at LOX ISRA areas;
 - Collected a sidewall confirmation soil sample at ISRA area LOX-1B-2;
 - Collected floor confirmation and regional board split soil samples at ISRA areas LOX-1B-1, LOX-1B-2, and LOX-1B-3;
 - Collected waste characterization soil samples from a debris pile near LOX ISRA areas;
 - Received concurrence from Department of Toxic Substances Control (DTSC) and RWQCB that LOX ISRA excavation activities are complete;
 - Installed a curb along the asphalt adjacent to ISRA area ELV-1C to direct stormwater runoff toward the Helipad BMP; and
 - Continued planning activities for ISRA implementation at ISRA area ELV-1D.
- Surveys, Monitoring, and Inspections:
 - Performed weekly, pre-rain event, rain event, and post-rain event SWPPP inspections at 2010 and 2011/2012 ISRA areas per the ISRA SWPPP;
 - Inspected condition of plants installed within the Northern Drainage;
 - Surveyed ISRA areas IEL-3, AP/STP-1C-2, ELV-1D, LOX-1B-1, LOX-1B-2, and LOX-1B-3;
 - Conducted post-excavation boundary survey at LOX ISRA areas;
 - Conducted ISRA Performance Monitoring and BMP Subarea Monitoring inspections; and
 - Performed biological surveys of ISRA area AP/STP-1C-2.
- ISRA BMPs Implemented:
 - Inspected and maintained BMPs implemented at ISRA areas at ELV and LOX.

Boeing continues to conduct bi-weekly status meetings and submit monthly and quarterly progress reports to Regional Board staff on the progress of ISRA activities and the BMP Plan³. Boeing is committed to restoring the ISRA areas immediately following cleanup activities and works closely with the Regional Board, DTSC, and the Expert Panel to ensure that restoration is comprehensive.

³ Available at: http://www.boeing.com/boeing/aboutus/environment/santa susana/isra.page



E. Northern Drainage BMPs

Boeing has actively worked to restore the Northern Drainage following cleanup activities performed under the oversight of the DTSC and in accordance with the requirements of Regional Board Cleanup and Abatement Order No. R4-2007-0054. The restoration and mitigation activities proposed in the RMMP plan4 were implemented in 2012.

Monitoring and maintenance of plantings and pole cuttings were conducted in the Third Quarter 2013. Water replenishment cartons were replenished to provide plants with a water source for three months and selective weeding was performed to remove invasive plants. Plant monitoring will continue for a minimum of five years and supplemental baseline geomorphic surveys will continue for two to three years depending on the need to reassess the sediment conditions in the drainage. Water replenishment cartons will be replaced until the plants are well established. Structural BMPs were also inspected monthly to evaluate conditions and performance during rain events.

REASONABLE POTENTIAL ANALYSIS

No stormwater discharges occurred from the Santa Susana Site and no new stormwater discharge data became available during Third Quarter 2013. A reasonable potential analysis was therefore not triggered and reasonable potential analysis tables not included in this report.

DATA VALIDATION AND QUALITY CONTROL

In accordance with current federal and state Environmental Protection Agency guidelines and procedures, or as specified in the NPDES Monitoring and Reporting Program, chemical and radiological analyses of water samples were completed at a State of California-certified laboratory. Data validation was performed on the analytical results and quality control elements were found to be within acceptable limits for the analytical methods reported, except as noted on the analytical summary tables. As noted above, measures were implemented by the analytical laboratory to monitor and/or evaluate low level detections, to analyze for interferences, and to ensure that cross contamination did not occur. Laboratory analytical reports, including validation reports and notes, are included in Appendix D. Attachment H of the NPDES Permit issued to the Santa Susana Site presents the State Board minimum levels (MLs) for use in reporting and determining compliance with NPDES Permit limits.

The analytical laboratory achieved these MLs for this reporting period when technically possible. When elevated laboratory reporting limits (RLs) were noted, the laboratory maximum detectable limits (MDLs) remained below the State of California MLs. However, some constituents' daily MDLs in the NPDES Permit are less than their respective MLs, and less than the RL. In cases where the NPDES Permit limit is less than the RL and ML, the RL was used to determine compliance. The specific constituents that have NPDES daily maximum or monthly average Permit limits that are less than the RL and ML are: mercury, bis(2-ethylhexyl)phthalate, polychlorinated biphenyls (PCBs) (Aroclor congeners), chlordane, Dichlorodiphenyldichloroethylene (DDD), Dichlorodiphenyldichloroethylene (DDE),

⁴ Available at: http://www.boeing.com/aboutus/environment/santa_susana/tech_reports.html



Dichlorodiphenyltrichloroethane (DDT), dieldrin, toxaphene, and chlorpyrifos. These compounds were either not a required analyte or not detected above the RL in all of the water samples collected during Third Quarter 2013.

FACILITY CONTACT

If there are any questions regarding this DMR or its enclosures, you may contact Mr. Paul Costa at (818) 466-8778.

CERTIFICATION

I certify under penalty of law that this document and all appendices were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for a knowing violation.

Executed on the 11th of November 2013 at The Boeing Company, Santa Susana Site

Sincerely,

Paul Costa

Environmental Operations and Compliance Manager

Santa Susana Field Laboratory

Environment, Health and Safety

LB:jrc

Enclosures:

References

Figures 1 - Site Map with Outfall Locations and Storm Water Drainages

Appendix A - Third Quarter 2013 Rainfall Data Summary

Appendix B - Third Quarter 2013 Liquid Waste Shipment Summary Table

Appendix C - Third Quarter 2013 Discharge Monitoring Data Summary Tables

Appendix D - Third Quarter 2013 Analytical Laboratory Report, Chain of Custody, and Validation Report

cc: Ms. Cassandra Owens, RWQCB

Mr. Mark Malinowski, DTSC

Mr. Robert Marshall, CSU Northridge Library

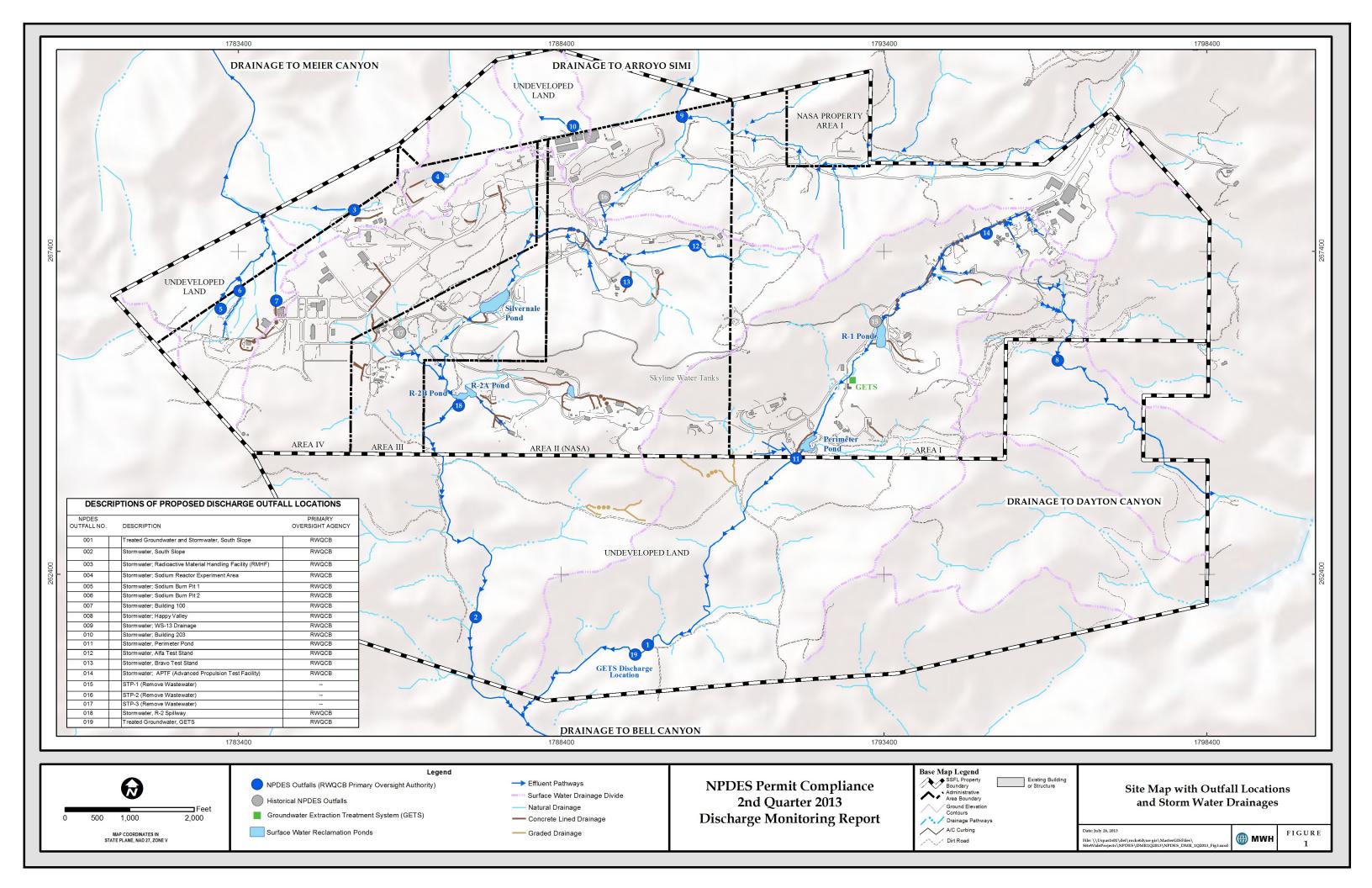
Mr. Derek Stalcup, Simi Valley Library

Ms. Lynn Light, Los Angeles Library Platt Branch



References

- Boeing, 2012. ISRA Performance Monitoring and Potential BMP Subarea Monitoring for the Outfalls 008 and 009 Watersheds, 2011/2012 Rainy Season, The Boeing Company, Santa Susana Field Laboratory, Canoga Park, California (Order No. R4-2010-0090; NPDES No. CA0001309, CI No. 6027; and California Water Code §13304 Order; No. CA0001309, CI No. 1111, Site ID No. 2040109). August 31.
- Geosyntec and the Expert Panel, 2011. 2011 BMP Plan Addendum, The Boeing Company, Santa Susana Field Laboratory, Canoga Park, Canoga Park, California (Order No. R4-2010-0090; NPDES No. CA0001309, CI No. 6027). September 28.
- Geosyntec and the Expert Panel, 2012. 2012 BMP Plan Addendum, The Boeing Company, Santa Susana Field Laboratory, Canoga Park, Canoga Park, California (Order No. R4-2010-0090; NPDES No. CA0001309, CI No.6027). September 28.
- MWH Americas, Inc. et al, 2010. Best Management Practices (BMP) Plan, Outfalls 008 and 009 Watersheds, The Boeing Company, Santa Susana Field Laboratory, Canoga Park, California (Order No. R4-2010-0090; NPDES No. CA0001309, Cl No. 6027). October 14.



APPENDIX A

Third Quarter 2013 Rainfall Data Summary

TABLE A DAILY RAINFALL SUMMARY

THE BOEING COMPANY NPDES PERMIT NUMBER CA0001309

Station: AREA1 Parameter: Rain Month/Year: July 2013

HOUR OF THE DAY

												HOUR	OF IF	IE DAY												
	Day	00	01	02	03	04	05	06	07	08	09	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
D	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
Α	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
Υ	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
0	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
F	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
Т	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
Н	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
Е	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
	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
M	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	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
N	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
Т	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	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
Н	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00		0.00	0.00	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
	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
	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
	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
	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
	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
	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

TABLE A DAILY RAINFALL SUMMARY

THE BOEING COMPANY NPDES PERMIT NUMBER CA0001309

Station: AREA1 Parameter: Rain Month/Year: August 2013

HOUR OF THE DAY

_												HOUR	OF TH	IE DAY												
	Day	00	01	02	03	04	05	06	07	80	09	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
D	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
Α	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
Υ	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
	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	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
F	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	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Т	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
Н	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
E	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	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
М	21	0.00	0.00	0.00	0.00	0.00	0.00	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	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
N	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
Τ	24	0.00	0.00	0.00	1	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Н	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
	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
	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 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
	<u>ي د</u>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE A DAILY RAINFALL SUMMARY

THE BOEING COMPANY NPDES PERMIT NUMBER CA0001309

Station: AREA1 Parameter: Rain

Month/Year: September 2013

HOUR OF THE DAY

_												HOUN	OF IH	EDAI												
	Day	00	01	02	03	04	05	06	07	08	09	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
	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
D	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
Α	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
Υ	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
	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	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
F	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
	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
Т	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
Н	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
Е	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
	20	0.00	0.00	0.00	0.00		0.00	0.00	0.00	0.00	0.00	0.00	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
М	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	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
N	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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
Т	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
Н	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
	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
	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
	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
	29 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
	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

d = Marked down, invalid hour

APPENDIX B

Third Quarter 2013 Liquid Waste Shipment Summary Tables

NPDES PERMIT CA0001309 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY

DATE SHIPPED	MANIFEST TRACKING NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
7/10/2013	006635328FLE	HAZARDOUS WASTE LIQUID (CARBON, TRICHLOROETHYLENE)	1075	Р	Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744	Clean Harbors Deer Park LLC 2027 Independence Parkview South, La Porte, TX 77571
7/10/2013	006635329FLE	WASTE POTASSIUM PERMANGANATE	5182	Р	1737 Last Defini Offeet, Williamgton, OA 30744	Clean Harbors Environmental Services Inc
7710/2010	0000000231 EE	WASTE POTASSIUM PERMANGANATE	436	P		1737 East Denni Street, Wilmington, CA 90744
7/17/2013	006514690FLE	HAZARDOUS WASTE LIQUID	790	P		Clean Harbors Deer Park LLC
771772010	0000140301 EE	(CARBON, TRICHLOROETHYLENE)	7.50	'		2027 Independence Parkview South, La Porte, TX 7757
7/17/2013	006514693FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, MUD)	932	Р		Clean Harbors Aragonite LLC
771772010	000011000122	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, MUD)	490	P		11600 North Aptus Road, Grantsville, UT 84029
7/24/2013	006514713FLE	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	4520	G		Siemens Water Technologies, LLC 5375 South Boyle Avenue, Los Angeles, CA 90058
7/24/2013	006514717FLE	NON-RCRA HAZARDOUS WASTE LIQUIDS (NON PCB BALLASTS)	392	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744
7/24/2013	006514720FLE	WASTE CORROSIVE LIQUIDS, TOXIC (SODIUM HYDROXIDE, SODIUM CYANIDE)	6	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744
		WASTE CORROSIVE LIQUID, ACIDIC, INORGANIC (HYDROCHLORIC ACID, SULFURIC ACID)	12	Р		
		NON-RCRA HAZARDOUS WASTE LIQUIDS (DEBRIS, SULFURIC ACID)	9	Р		
7/24/2013	006514722FLE	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	5	Р		Clean Harbors Buttonwillow LLC 2500 West Lokern Road, Buttonwillow, CA 93206
8/29/2013	010392860JJK	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	1564	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744
8/29/2013	010392861JJK	WASTE CORROSIVE LIQUIDS, TOXIC (SODIUM HYDROXIDE, SODIUM CYANIDE)	12	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744
	<u>_</u>	WASTE SODIUM HYDROXIDE SOLUTION	7	Р		
		NON-RCRA HAZARDOUS WASTE LIQUIDS (IRON REAGENT, WATER)	15	Р		
		NON-RCRA HAZARDOUS WASTE LIQUIDS (DEBRIS, SULFURIC ACID)	68	Р		
8/29/2013	010392862JJK	WASTE TOXIC LIQUIDS, ORGANIC (CHROMIUM, PETROLEUM, HYDROCARBON)	17	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744
		WASTE TOXIC LIQUIDS, ORGANIC (METHANOL, TRICHLOROETHYLENE)	11	Р		
	<u>_</u>	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	72	Р		
	<u> </u>	NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	60	Р		
		NON-RCRA HAZARDOUS WASTE LIQUIDS (NON PCB BALLASTS)	393	Р		
9/10/2013	10392884JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, MUD)	46	Р		Clean Harbors Environmental Services Inc
		HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE, WATER)	2400	Р		1737 East Denni Street, Wilmington, CA 90744
		NON-RCRA HAZARDOUS WASTE LIQUIDS (OIL, WATER)	7	Р		
9/18/2013	010392826JJK	HAZARDOUS WASTE LIQUID (TRICHLOROETHYLENE)	16	Р		Clean Harbors Environmental Services Inc
		NON-RCRA HAZARDOUS WASTE LIQUID (DEBRIS, SULFURIC ACID)	37	Р		1737 East Denni Street, Wilmington, CA 90744
9/18/2013	010392827JJK	HAZARDOUS WASTE LIQUID (ACETONE, TCE)	111	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744
9/26/2013	010392829JJK	HAZARDOUS WASTE LIQUID (ACETONE, TCE)	2207	Р		Clean Harbors Environmental Services Inc 1737 East Denni Street, Wilmington, CA 90744

NPDES PERMIT CA0001309

THE BOEING COMPANY

SANTA SUSANA FIELD LABORATORY

DATE SHIPPED	JOB NUMBER	TYPE OF LIQUID	QTY.	UNITS	TRANSPORTER	DESTINATION
7/2/2013	33285	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G	Southwest Processors Inc.	LACSD Saugus
7/2/2013	33286	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT (STP #2)	5000	G	4120 Bandini Blvd. Vernon, CA 90058	
7/2/2013	33287	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
7/9/2013	34114	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
7/9/2013	34115	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
7/9/2013	34116	WASTE WATER FROM AREA II SEWAGE TREATMENT PLANT (STP #2)	5000	G		
7/16/2013	34139	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
7/16/2013	34140	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
7/30/2013	34208	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
7/30/2013	34209	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
7/30/2013	34210	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
8/6/2013	33344	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
8/6/2013	33345	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/6/2013	33346	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/13/2013	33381	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/13/2013	33382	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/13/2013	33383	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
8/20/2013	33409	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/20/2013	33410	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/20/2013	33411	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/27/2013	33444	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
8/27/2013	33445	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
8/27/2013	33446	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/3/2013	33469	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
9/3/2013	33470	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/3/2013	33471	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/10/2013	33506	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
9/10/2013	33507	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/10/2013	33508	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/17/2013	34244	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/17/2013	34245	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/17/2013	34246	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/24/2013	34279	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #2)	5000	G		
9/24/2013	34280	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		
9/24/2013	34281	WASTE WATER FROM AREA I SEWAGE TREATMENT PLANT (STP #1)	5000	G		

G = Gallons

P = Pounds

APPENDIX C

Third Quarter 2013 Discharge Monitoring Data Summary Tables

THIRD QUARTER 2013 REPORTING SUMMARY NOTES THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

Notes:

- 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. pH was determined with a field instrument and was noted as such. These results were not validated.
- 3. The NPDES monthly average permit limit for mercury of 0.05 μ g/L (Outfall 019) is not achievable by the laboratory; therefore, the laboratory MDL of 0.10 μ g/L was used to determine compliance.
- 4. All of the following abbreviations and/or notes may not occur on every table.

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of
\$	the sample was less than the background condition 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)
	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	
ວ	blank spike/blank spike duplicate relative percent difference was outside the control limit
*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	· · ·
*11	no calibration was performed for this compound; result is reported as a
	tentatively identified compound (TIC)

THIRD QUARTER 2013 REPORTING SUMMARY NOTES THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

* 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 bioaccumulation equivalency factor

BU analyzed out of holding time

BV sample received after holding time expired C calibration %RSD or %D were noncompliant

C5 Calibration verification %R was outside method control limits

%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

J estimated value, result lower than the detection limit

J, DX estimated value, value < lowest standard (MQL), but > than MDL

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

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 minimum detectable activity

MDL method detection limit 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.

THIRD QUARTER 2013 REPORTING SUMMARY NOTES THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

mg/L milligrams per liter

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

ND analyte value less than the LOD or MDL

NM not measured or determined NTU nephelometric turbidity unit

pCi/L picocurries 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

RL laboratory reporting limit

RL-1 reporting limit raised due to sample matrix effects

%RSD percent relative standard deviation

S surrogate recovery was outside control limits

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

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 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

drv weather.

(4.0)3.1/- Represents (Dry Weather Limit) Wet Weather Limit / Monthly Average

Limit.

ARROYO SIMI (Frontier Park Receiving Water)

THIRD QUARTER 2013 REPORTING SUMMARY THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

July 1 through September 30, 2013

			8/20/2013			
ANALYTE	UNITS	Permit Limit Daily Max/Monthly Avg	SAMPLE TYPE	RESULT	VALIDATION QUALIFIER	
Water Velocity	ft/sec	-/-	Meas	0.033	*	
pH (Field)	pH Units	6.5-8.5/-	Grab	7.15	*	
Temperature	F	-/-	Grab	64.33	*	
E. Coli	MPN/100 ml	-	ANR	ANR	ANR	
Fecal Coliform	MPN/100 ml		ANR	ANR	ANR	
Hardness	mg/L	-/-	Grab	680		
4,4'-DDD	ug/L	0.0014/-	Grab	ND < 0.0038	*	
4,4'-DDE	ug/L	0.001/-	Grab	ND < 0.0029	*	
4,4'-DDT	ug/L	0.001/-	Grab	ND < 0.0038	*	
Aroclor 1016	ug/L	0.0003/-	Grab	ND < 0.24	*	
Aroclor 1221	ug/L	0.0003/-	Grab	ND < 0.24	*	
Aroclor 1232	ug/L	0.0003/-	Grab	ND < 0.24	*	
Aroclor 1242	ug/L	0.0003/-	Grab	ND < 0.24	*	
Aroclor 1248	ug/L	0.0003/-	Grab	ND < 0.24	*	
Aroclor 1254	ug/L	0.0003/-	Grab	ND < 0.24	*	
Aroclor 1260	ug/L	0.0003/-	Grab	ND < 0.24	*	
Chlordane	ug/L	0.001/-	Grab	ND < 0.077	*	
Chlorpyrifos	ug/L	0.02/-	Grab	ND < 0.078	*	
Diazinon	ug/L	0.16/-	Grab	ND < 0.098	*	
Dieldrin	ug/L	0.0002/-	Grab	ND < 0.0019	*	
Toxaphene	ug/L	0.0003/-	Grab	ND < 0.24	*	

Third Quarter 2013 Analytical Laboratory Report, Chain of Custody, and Validation Report

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Section 1 - Arroyo Simi-Frontier Park - August 20, 2013 - MEC^x Data Validation Report

Section 2 - Arroyo Simi-Frontier Park - August 20, 2013 - Test America Analytical Laboaatory Reports

Section 1

Arroyo Simi-Frontier Park – August 30, 2013 MEC^x Data Validation Report



DATA VALIDATION REPORT

Boeing SSFL NPDES

SAMPLE DELIVERY GROUP: 440-54918-1

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: 440-54918-1

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	440-54918-1	N/A	Water	8/20/2013 9:45:00 AM	SM 2340B

II. Sample Management

No anomalies were observed regarding sample management. The samples in this SDG were received at the laboratory within the temperature limits of 4°C ±2°C. According to the case narrative for this SDG, the samples were received intact, on ice, and properly preserved, if applicable. The COCs were appropriately signed and dated by field and/or laboratory personnel. Custody seals were intact.

1

Data Qualifier Reference Table

Qualifie	r 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 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			
Н	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			
С	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.			
В	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.			
Α	Not applicable.	ICP Serial Dilution %D were not within control limits.			
M	Tuning (BFB or DFTPP) was noncompliant.	Not applicable.			
Т	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.
Р	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.
*11, *111	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 SM2340B—Hardness

Reviewed By: P. Meeks

Date Reviewed: October 3, 2013

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 Methods 200.7 and SM2340B, and the National Functional Guidelines for Inorganic Data Review (7/02).

- Holding Times: The analytical holding time, six months for ICP metals, was met.
- Calibration: Calibration criteria were met. All initial and continuing calibration recoveries were within 90-110%. CRDL recoveries were within the control limits of 70-130%.
- Blanks: The method blank and CCBs had no applicable detects.
- Interference Check Samples: Recoveries were within the method-established control limits.
- Blank Spikes and Laboratory Control Samples: Recoveries were within methodestablished control limits.
- Laboratory Duplicates: No laboratory duplicate analysis was performed on the sample in this SDG.
- Matrix Spike/Matrix Spike Duplicate: MS/MSD analyses were performed on the sample in this SDG but were not reported by the laboratory and were therefore 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.

o Field Duplicates: There were no field duplicate samples identified for this SDG.

Validated Sample Result Forms 440-54918-1

Analysis Method SM 2340B										
Sample Name	ame Arroyo Simi-FP M			ix Type:	Water	Validation Level: IV				
Lab Sample Name:	440-54918-1	Sa	mple Date:	8/20/201	3 9:45:00 AM	I				
Analyte	CAS No	Result Value		MDL	Result Units	Lab Qualifier	Validation Qualifier	Validation Notes		
Hardness, as CaCO3	STL00009	680	0.33	0.17	mg/L					

Section 2

Arroyo Simi-Frontier Park – August 30, 2013 Test America Analytical Laboratory Report



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: 440-54918-1

Client Project/Site: Quarterly Arroyo Simi-Frontier Park

For:

MWH Americas Inc 618 Michillinda Avenue, Suite 200 Arcadia, California 91007

Attn: Bronwyn Kelly

Delby Wilson

Authorized for release by: 9/4/2013 4:15:45 PM

Debby Wilson, Project Manager I debby.wilson@testamericainc.com

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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.

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

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

Project Manager I

9/4/2013 4:15:45 PM

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Sample Summary

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-54918-1	Arroyo Simi-FP	Water	08/20/13 09:45	08/20/13 14:50

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Case Narrative

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

Job ID: 440-54918-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative 440-54918-1

Comments

No additional comments.

Receipt

The sample was received on 8/20/2013 2:50 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.3° C.

GC/MS Semi VOA

Method(s) 525.2: The laboratory control sample (LCS) for batch 125998 recovered outside control limits for the following analytes: Chlorpyrifos. This analyte was biased high in the LCS and was not detected in the associated sample; therefore, the data have been reported.

Method(s) 525.2: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 125998. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No other analytical or quality issues were noted.

GC Semi VOA

Method(s) 608: Insufficient sample volume was available to perform batch matrix spike/matrix spike duplicate (MS/MSD) associated with batch 127348. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch. (LCS 440-127348/4-A)

Method(s) 608: Surrogate was not spiked in the LCS. The LCSD was spiked with surrogate with good recovery. Target analytes had recoveries within acceptance limits for both LCS/LCD. (LCS 440-127348/2-A)

No other analytical or quality issues were noted.

Metals

No analytical or quality issues were noted.

Organic Prep

No analytical or quality issues were noted.

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Client Sample Results

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

Client Sample ID: Arroyo Simi-FP

TestAmerica Job ID: 440-54918-1

Lab Sample ID: 440-54918-1

Matrix: Water

Date Collected: 08/20/13 09:45	
--------------------------------	--

Date Received: 08/20/13 14:50

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chlorpyrifos	ND	LQ	0.98	0.078	ug/L		08/21/13 09:13	08/21/13 19:49	
Diazinon	ND		0.24	0.098	ug/L		08/21/13 09:13	08/21/13 19:49	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1,3-Dimethyl-2-nitrobenzene	103		70 - 130				08/21/13 09:13	08/21/13 19:49	
Perylene-d12	97		70 - 130				08/21/13 09:13	08/21/13 19:49	
Triphenylphosphate	112		70 - 130				08/21/13 09:13	08/21/13 19:49	
Method: 608 - Organochlorine	Pesticides in Wa	ter							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chlordane (technical)	ND		0.096	0.077	ug/L		08/27/13 11:25	08/28/13 16:56	
Dieldrin	ND		0.0048	0.0019	ug/L		08/27/13 11:25	08/28/13 16:56	
Toxaphene	ND		0.48	0.24	ug/L		08/27/13 11:25	08/28/13 16:56	
4,4'-DDD	ND		0.0048	0.0038	ug/L		08/27/13 11:25	08/28/13 16:56	
4,4'-DDE	ND		0.0048	0.0029	ug/L		08/27/13 11:25	08/28/13 16:56	
4,4'-DDT	ND		0.0096	0.0038	ug/L		08/27/13 11:25	08/28/13 16:56	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Tetrachloro-m-xylene	51		35 - 115				08/27/13 11:25	08/28/13 16:56	
Method: 608 - Polychlorinated	Biphenyls (PCBs	s) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Aroclor 1016	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Aroclor 1221	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Aroclor 1232	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Aroclor 1242	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Aroclor 1248	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Aroclor 1254	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Aroclor 1260	ND		0.48	0.24	ug/L		08/27/13 11:25	08/27/13 20:03	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
DCB Decachlorobiphenyl (Surr)	80		45 - 120				08/27/13 11:25	08/27/13 20:03	
Method: SM 2340B - Total Hard	•	. •							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
	680		0.33		mg/L			08/21/13 11:22	

Method Summary

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

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

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Lab Chronicle

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

Lab Sample ID: 440-54918-1

Matrix: Water

Date Collected: 08/20/13 09:45

Client Sample ID: Arroyo Simi-FP

Date Received: 08/20/13 14:50

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	525.2			1025 mL	1 mL	125998	08/21/13 09:13	CN	TAL IRV
Total/NA	Analysis	525.2		1			126217	08/21/13 19:49	CP	TAL IRV
Total/NA	Prep	608			1040 mL	2 mL	127348	08/27/13 11:25	AC	TAL IRV
Total/NA	Analysis	608		1			127595	08/27/13 20:03	JM	TAL IRV
Total/NA	Prep	608			1040 mL	2 mL	127348	08/27/13 11:25	AC	TAL IRV
Total/NA	Analysis	608		1			127679	08/28/13 16:56	KS	TAL IRV
Total/NA	Analysis	SM 2340B		1			125050	08/21/13 11:22	FR	TAL IRV

Laboratory References:

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

TestAmerica Irvine

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TestAmerica Job ID: 440-54918-1

Project/Site: Quarterly Arroyo Simi-Frontier Park

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

Lab Sample ID: MB 440-125998/1-A

Matrix: Water

Analysis Batch: 126217

Client: MWH Americas Inc

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 125998

Result Qualifier RL MDL Unit D Dil Fac Analyte Prepared Analyzed 1.0 0.080 ug/L 08/21/13 09:13 Chlorpyrifos ND 08/21/13 17:59 ND 0.25 08/21/13 09:13 08/21/13 17:59 Diazinon 0.10 ug/L

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,3-Dimethyl-2-nitrobenzene	96		70 - 130	08/21/13 09:13	08/21/13 17:59	1
Perylene-d12	89		70 - 130	08/21/13 09:13	08/21/13 17:59	1
Triphenylphosphate	109		70 - 130	08/21/13 09:13	08/21/13 17:59	1

Lab Sample ID: LCS 440-125998/2-A

Matrix: Water

Analysis Batch: 126217

Client Sample ID: Lab Control Sample

Prep Type: Total/NA **Prep Batch: 125998**

LCS LCS Spike %Rec. Analyte Added Result Qualifier Limits Unit D %Rec

Chlorpyrifos 5.00 7.53 LQ ug/L 151 70 - 130 Diazinon 5.00 5.61 ug/L 112 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,3-Dimethyl-2-nitrobenzene	81		70 - 130
Perylene-d12	97		70 - 130
Triphenylphosphate	103		70 - 130

Lab Sample ID: LCSD 440-125998/3-A

Matrix: Water

Analysis Batch: 126217

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 125998

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chlorpyrifos 5.00 5.86 117 70 - 130 25 30 ug/L Diazinon 5.00 4.33 ug/L 87 70 - 130 26 30

LCSD LCSD

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

Method: 608 - Organochlorine Pesticides in Water

Lab Sample ID: MB 440-127348/1-A

Matrix: Water

Analysis Batch: 127679

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 127348

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.10	0.080	ug/L		08/27/13 11:25	08/28/13 15:13	1
Dieldrin	ND		0.0050	0.0020	ug/L		08/27/13 11:25	08/28/13 15:13	1
Toxaphene	ND		0.50	0.25	ug/L		08/27/13 11:25	08/28/13 15:13	1
4,4'-DDD	ND		0.0050	0.0040	ug/L		08/27/13 11:25	08/28/13 15:13	1
4,4'-DDE	ND		0.0050	0.0030	ug/L		08/27/13 11:25	08/28/13 15:13	1
4,4'-DDT	ND		0.010	0.0040	ug/L		08/27/13 11:25	08/28/13 15:13	1
4,4'-DDT	ND		0.010	0.0040	ug/L		08/27/13 11:25	08/28/13 15:13	1

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9/4/2013

TestAmerica Job ID: 440-54918-1

Client Sample ID: Method Blank

Project/Site: Quarterly Arroyo Simi-Frontier Park

Method: 608 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: MB 440-127348/1-A

Lab Sample ID: LCS 440-127348/2-A

Matrix: Water

Matrix: Water

Analysis Batch: 127679

Analysis Batch: 127679

Client: MWH Americas Inc

Prep Type: Total/NA

Prep Batch: 127348

MB MB

%Recovery Qualifier Prepared Surrogate Limits Analyzed Dil Fac 35 - 115 08/27/13 11:25 Tetrachloro-m-xylene 63 08/28/13 15:13

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 127348

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Dieldrin 0.500 0.425 85 55 - 115 ug/L 4,4'-DDD 0.500 0.444 89 55 - 120 ug/L 4,4'-DDE 0.500 0.419 ug/L 84 50 - 120 4,4'-DDT 0.500 0.452 ug/L 90 55 - 120

LCS LCS

%Recovery Qualifier Limits Surrogate 0.6 LG 35 - 115 Tetrachloro-m-xylene

Client Sample ID: Lab Control Sample Dup Lab Sample ID: LCSD 440-127348/3-A

Matrix: Water

Analysis Batch: 127679

DCB Decachlorobiphenyl (Surr)

Prep Type: Total/NA

Prep Batch: 127348

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Dieldrin 0.500 0.420 ug/L 84 55 - 115 30 4,4'-DDD 0.500 0.438 ug/L 88 55 - 120 30 4,4'-DDE 0.500 0.430 30 ug/L 50 - 120 3 0.500 4,4'-DDT 0.456 ug/L 55 - 120 30

LCSD LCSD

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Surrogate %Recovery Qualifier Limits 35 - 115 Tetrachloro-m-xylene 64

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

Lab Sample ID: MB 440-127348/1-A Client Sample ID: Method Blank **Matrix: Water** Prep Type: Total/NA Analysis Batch: 127595

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1
Aroclor 1221	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1
Aroclor 1232	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1
Aroclor 1242	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1
Aroclor 1248	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1
Aroclor 1254	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1
Aroclor 1260	ND		0.50	0.25	ug/L		08/27/13 11:25	08/27/13 19:17	1

MB MB Qualifier Dil Fac Surrogate %Recovery Limits Prepared Analyzed

45 - 120

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08/27/13 19:17

08/27/13 11:25

Prep Batch: 127348

QC Sample Results

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

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

Lab Sample ID: LCS 440-127348/4-A			Client Sample ID: Lab Control Sample
Matrix: Water			Prep Type: Total/NA
Analysis Batch: 127595			Prep Batch: 127348
	Snika	LCS LCS	%Rec

Allalysis Datcii. 121333									Lieb De	11011. 12/340
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Aroclor 1016			4.00	3.28		ug/L		82	50 _ 115	
Aroclor 1260			4.00	3.35		ug/L		84	60 - 120	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
DCB Decachlorobiphenyl (Surr)	83		45 _ 120							

Lab Sample ID: LCSD 440-127348/5-A				Cli	ent Sam	ple ID: I	Lab Contro	ol Sampl	e Dup
Matrix: Water							Prep 1	Type: To	tal/NA
Analysis Batch: 127595							Prep	Batch: 1	27348
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	4.00	3.23		ug/L		81	50 - 115	0	30
Aroclor 1260	4.00	3.35		ug/L		84	60 - 120	0	25

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

QC Association Summary

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

GC/MS Semi VOA

Prep Batch: 125998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-54918-1	Arroyo Simi-FP	Total/NA	Water	525.2	
LCS 440-125998/2-A	Lab Control Sample	Total/NA	Water	525.2	
LCSD 440-125998/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	
MB 440-125998/1-A	Method Blank	Total/NA	Water	525.2	

Analysis Batch: 126217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-54918-1	Arroyo Simi-FP	Total/NA	Water	525.2	125998
LCS 440-125998/2-A	Lab Control Sample	Total/NA	Water	525.2	125998
LCSD 440-125998/3-A	Lab Control Sample Dup	Total/NA	Water	525.2	125998
MB 440-125998/1-A	Method Blank	Total/NA	Water	525.2	125998

GC Semi VOA

Prep Batch: 127348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-54918-1	Arroyo Simi-FP	Total/NA	Water	608	
LCS 440-127348/2-A	Lab Control Sample	Total/NA	Water	608	
LCS 440-127348/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 440-127348/3-A	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 440-127348/5-A	Lab Control Sample Dup	Total/NA	Water	608	
MB 440-127348/1-A	Method Blank	Total/NA	Water	608	

Analysis Batch: 127595

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-54918-1	Arroyo Simi-FP	Total/NA	Water	608	127348
LCS 440-127348/4-A	Lab Control Sample	Total/NA	Water	608	127348
LCSD 440-127348/5-A	Lab Control Sample Dup	Total/NA	Water	608	127348
MB 440-127348/1-A	Method Blank	Total/NA	Water	608	127348

Analysis Batch: 127679

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-54918-1	Arroyo Simi-FP	Total/NA	Water	608	127348
LCS 440-127348/2-A	Lab Control Sample	Total/NA	Water	608	127348
LCSD 440-127348/3-A	Lab Control Sample Dup	Total/NA	Water	608	127348
MB 440-127348/1-A	Method Blank	Total/NA	Water	608	127348

Metals

Analysis Batch: 125050

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-54918-1	Arrovo Simi-FP	Total/NA	Water	SM 2340B	

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Definitions/Glossary

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description

LCS/LCSD recovery above method control limits

GC Semi VOA

Qualifier Qualifier Description

LG LG=Surrogate recovery below the acceptance limits

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
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

MDC Minimum detectable cond
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)

TestAmerica Irvine

Certification Summary

Client: MWH Americas Inc

Project/Site: Quarterly Arroyo Simi-Frontier Park

TestAmerica Job ID: 440-54918-1

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	10-13-13
California	LA Cty Sanitation Districts	9	10256	01-31-14
California	NELAP	9	1108CA	01-31-14
California	State Program	9	2706	06-30-14
Guam	State Program	9	Cert. No. 12.002r	01-28-14 *
Hawaii	State Program	9	N/A	01-31-14
Nevada	State Program	9	CA015312007A	07-31-14
New Mexico	State Program	6	N/A	01-31-14
Northern Mariana Islands	State Program	9	MP0002	01-31-14
Oregon	NELAP	10	4005	09-12-13
USDA	Federal		P330-09-00080	06-06-14
USEPA UCMR	Federal	1	CA01531	01-31-15

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 $^{^{\}star}$ Expired certification is currently pending renewal and is considered valid.

TestAmerica Irvine

Page 1 of 1		Field readings: Temp = 17.96	7.15 Hd	Water Velocity 1/3 o (Ft/second) = 1/3 o Time of readings =090	Comments		- li	Nours of Sampling					440-54918 Chain of Custody				Tum around Time: (check) 24 Hours 5 Days	48 Hours 10 Days	72 Hours Normal X	Sample integrity: (check) Intact On loe:	Data Requirements: (check) No Level IV All Level IV NDES Level IV
	ANALYSIS REQUIRED			ΤΟΟ - , 4,4-DDΤ	7-5'5			•		02 0/11	- 1	70					Bate/Time: \$-20-(3 []:57	Date/Time:		Date/Time:	08/15/1/20 /V50
CUSTODY FORM			uou	ress as CaCo 5 (608) pyrifos, Diazi dane, Dieldrii phene (608), phene (608),	PCBs Chlor Chlor Toxa	×	×	×	×								WAT CHANGE) / P	, ka	By	m Dr
CHAIN OF CUS		Boeing-SSFL NPDES Quarterly Arroyo Simi-Frontier Park		er: 31 15	Preservative Bottle #	HNO ₃	None 2A, 2B	HCI 3A, 3B	None 4A, 4B					7.	_		Received	///		Received By	B
	Project:	Boeing-SSFL NPDES Quarterly Arroyo Simi- Park		Phone Number: (626) 568-6691 Fax Number: (626) 568-6515	Sampling Date/Time	8/20/13	8		8/20/13								Date/Time:)	C-24-17 14:50	Date/Time:	
አ Version 7/19/20	58:	ue, Suite 200	Debby Wilson	Bronwyn Kelly Smith	Container # of Type Cont.	1L Poly 1	1L Amber 2	1L Amber 2	1L Amber 2				WAY TO BE A STATE OF THE STATE				1		MANNE	A	
Test America version 7/19/2010	Client Name/Address:	MWH-Arcadia 618 Michillinda Avenue, Suite 200 Arcadia, CA 91007	Test America Contact: Debby Wilson	Project Manager. Bronwyn Kelly Sampler: N£Aしらmith	Sample Sample Description Matrix	M	Arroyo W	Arroyo W	Arroyo W		A A						Relinquished By	A.A.	Relinguished By	Religioushed By	

Client: MWH Americas Inc

Job Number: 440-54918-1

Login Number: 54918 List Source: TestAmerica Irvine

List Number: 1 Creator: Perez, Angel

oreator. Perez, Anger		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	N/A	
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	Neal Smith
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").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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