



Via FedEx

November 15, 2016  
In reply refer to SHEA-115594

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

Subject: Third Quarter 2016 NPDES Discharge Monitoring Report  
Compliance File CI-6027 and NPDES No. CA0001309  
Santa Susana Field Laboratory  
Ventura County, California

The Boeing Company (Boeing) hereby submits this Discharge Monitoring Report (DMR) for the Santa Susana Field Laboratory (Santa Susana Site) for the period of 1 July through 30 September 2016 (Third Quarter 2016). This DMR was prepared as required by and in accordance with National Pollutant Discharge Elimination System (NPDES) Permit No. CA0001309 (Permit) (California Regional Water Quality Control Board, Los Angeles Region [Regional Board], 2015) and under regulatory oversight of the Regional Board.

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/principles/environment/santa-susana/monitoring-reports.page>

### THIRD QUARTER 2016 DMR CONTENTS

This DMR includes the following sections and appendices:

- **Discharge Summary:** This section describes the number of rain events, number of samples collected, sample dates, and sample locations during Third Quarter 2016. Table I summarizes the Third Quarter 2016 sampling record by outfall, location, and sample type collected per the requirements of the NPDES Permit.
- **Third Quarter 2016 Summary of Compliance:** This section summarizes the sample results that exceeded NPDES Permit limits in Third Quarter 2016.
- **Third Quarter 2016 Santa Susana Site Stormwater Pollution Prevention Plan (SWPPP)/Best Management Practices (BMP) Activities:** This section presents the Santa Susana Site SWPPP activities and BMPs related to demolition, Interim Source Removal Actions (ISRA), the BMP Plan, Northern Drainage, and other activities implemented in Third Quarter 2016. 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.
- **Figure 1** shows the stormwater collection conveyance system and site features and **Figure 2** shows the Arroyo Simi – Frontier Park (RSW-002) sampling location.
- **Appendix A** summarizes measured Third Quarter 2016 precipitation at the Santa Susana Site.

- **Appendix B** tabulates waste shipment details.
- **Appendix C** presents chemical analytical results of Third Quarter 2016 stormwater and/or receiving water samples in tabular form by outfall location, constituents evaluated (analytes), sample dates, and data validation qualifiers.
- **Appendix D** contains copies of laboratory analytical reports, chain of custody forms, and data validation reports.

## DISCHARGE SUMMARY

The Santa Susana Site experienced no qualifying rain events that produced greater than 0.1 inch of rainfall within a 24-hour period and were preceded by at least 72 hours of dry weather during Third Quarter 2016 (Appendix A). No discharge occurred at any of the outfalls; therefore, no samples were collected.

One quarterly offsite receiving water sample was collected at the Arroyo Simi–Frontier Park location in Simi Valley (RSW 002; see Figure 2).

Table I summarizes the Third Quarter 2016 sampling record by outfall, location and sample type collected, per NPDES Permit requirements.

**TABLE I: Sampling Record during Third Quarter 2016**

Date	Outfall/Location	Sample Frequency	Sample Type
08/17/2016	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 2016 SUMMARY OF COMPLIANCE

No surface water discharges occurred from the Santa Susana Site during Third Quarter 2016. As such, there are no onsite compliance issues to report for this period. Additionally, in the quarterly sample collected at Arroyo Simi sample location RSW-002 in Simi Valley, no constituents exceeded receiving water limits. All Third Quarter 2016 samples were therefore in full compliance with the NPDES Permit.

## THIRD QUARTER 2016 SANTA SUSANA SITE SWPPP/BMP ACTIVITIES

Boeing implemented significant SWPPP- and BMP-related activities to assist in improving stormwater quality and compliance at the Santa Susana Site. Table II summarizes the activities that were completed during Third Quarter 2016 by outfall. In addition to SWPPP-related activities, specific BMP projects included: demolition-related BMPs; Outfall 008/009 ISRA BMPs; BMP Plan-related BMPs; and Northern Drainage BMPs.



**TABLE II: Boeing's Third Quarter 2016 BMP Activities**

OUTFALL (Location)	BMP ACTIVITIES DURING THIRD QUARTER 2016
001 (South Slope)	Conducted erosion, sediment control, and drainage stabilization inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis.
002 (South Slope)	Conducted erosion, sediment control, and drainage stabilization inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis.
003 (Radioactive Material Handling Facility)	Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Conducted maintenance inspections of structural BMPs, including the flow-through structure and stormwater conveyance and retention systems.
004 (Sodium Reactor Experiment Area)	Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected the outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Conducted maintenance inspections of the structural BMPs, including the flow-through structure and stormwater conveyance system.
005 (Sodium Burn Pit 1)	Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected the outfall for sediment/debris. Checked sample box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Conducted maintenance inspections of the stormwater conveyance and retention systems. Installed new support structures for pump float switches.

OUTFALL (Location)	BMP ACTIVITIES DURING THIRD QUARTER 2016
<p>006 (Sodium Burn Pit 2)</p>	<p>Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Conducted maintenance inspections of the structural BMPs, including the flow-through structure and stormwater conveyance system.</p>
<p>007 (Building 100)</p>	<p>Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected the outfall for sediment/debris. Checked sample box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Conducted maintenance inspections of the stormwater conveyance and retention systems. Installed new support structures for pump float switches.</p>
<p>008 (Happy Valley)</p>	<p>Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected the outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Installed a fiber roll at the base of the road, above the autosampler skid, to direct water away from the autosampler skid.</p>
<p>009 (WS-13 Drainage)</p>	<p>Outfall BMPs: Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis.</p> <p>Restoration, Monitoring and Mitigation Plan (RMMP) BMPs: Performed a quarterly biological monitoring inspection on September 14.</p> <p>Lower Lot BMP (Biofilter): Inspected sedimentation basin, biofilter, and cistern areas.</p> <p>Former Building 1436 (B1436) Detention Bioswales: Performed maintenance inspection of bioswale surface area, including hydroseeded area and fiber rolls.</p> <p>B-1 Area: Performed maintenance inspection of BMPs along slope and within drainage.</p> <p>Culvert Modifications: Performed maintenance inspection of BMPs.</p>



OUTFALL (Location)	BMP ACTIVITIES DURING THIRD QUARTER 2016
010 (Building 203)	Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected the outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Conducted maintenance inspections of structural BMPs, including the flow-through structure and stormwater conveyance and retention systems. Replaced totalizer on conveyance line.
011 (Perimeter Pond)	Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and weir for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Conducted maintenance inspections of structural BMPs, including the flow-through structure and stormwater conveyance system.
018 (R-2 Pond Spillway)	Conducted erosion and sediment control inspections and performed maintenance around the perimeter of the outfall, the drainage/watershed, and areas of disturbance or sparse vegetation. Inspected outfall and flume for sediment/debris. Checked sample box and flow meter control box for the presence of debris and/or animals. Cleaned sample box and the outfall area and performed weed abatement as needed. Reset flow meter and replaced tape on a monthly basis. Conducted maintenance inspections of the structural BMPs, including the flow-through structure and conveyance system. Removed float switches, supports, and the staff gauge from R2A pond. Also removed HDPE pipe for demolition contractor access. All float switch supports and float switches as well as staff gauges and HDPE piping were re-installed in Third Quarter 2016. The R2B dam sinkhole was filled with rip rap and hydroseeded.
019 (Area I Groundwater Extraction and Treatment [GET] System)	The GET system has not been in operation since April 2013 and no pumping or discharge has occurred. Therefore, no NPDES sampling was performed in Third Quarter 2016 at the Area I GET System. Conducted maintenance inspections of the structural BMPs. System construction began for re-injection modifications.
RSW-002 (Arroyo Simi – Frontier Park)	Collected the quarterly receiving water sample at the Arroyo Simi – Frontier Park location.

**OTHER BMP ACTIVITIES**

BMP observations and maintenance inspections were conducted in conformance with the Site-Wide SWPPP at and around the former active test stands Alfa and Bravo, and former Advanced Propulsion Test Facility (APTF).

## NASA-RELATED ACTIVITIES

Demolition activities covered by NASA's Construction SWPPP (dated 16 March 2016) are inspected in accordance with the NPDES General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities (California State Water Resources Control Board, 2009). During the Third Quarter 2016, NASA performed planned demolition activities in the Sewage Treatment Plant, R-2 Ponds, Alfa Bravo Fuel Farm, and Coca Delta Fuel Farm Areas. NASA placed wattles as linear sediment controls and rip rap as erosion control measures, where needed, and hydroseeded areas within these sites where construction activities had been completed.

NASA completed concrete waste removal activities in the spillway portion of the Delta Test Stand Area in the Third Quarter 2016. BMPs including sandbags, fiber rolls, riprap, and hydroseed have been placed in the lower Delta area.

Additionally, during the Third Quarter 2016, NASA inspected temporary BMPs (sand bags and fiber rolls) at the Liquid Oxygen Plant (LOX) ISRA areas and discharge points to the Northern Drainage, and inspected the ELV BMP storage tanks for rainy season preparation.

## DOE-RELATED ACTIVITIES

During Third Quarter 2016, perimeter fiber rolls were maintained around drill rig pads and areas around wells DD-141 (located near the Building 56 Landfill) and DD-143 (in the Outfall 003 watershed) were hydroseeded.

## SITE-WIDE WORKPLAN AND ANNUAL REPORT

The Expert Panel submitted a Site-Wide Stormwater Work Plan and 2014/15 Annual Report (2015 Work Plan) in September 2015 (Geosyntec and the Expert Panel, 2015a) on behalf of Boeing to meet the requirements of the NPDES Permit (Order No. R4-2015-0033)<sup>1</sup>. The 2015 Work Plan is applicable to all outfalls and presents the NPDES monitoring results and BMP-related activities to be performed and reported on a yearly basis. In addition, the 2015 Work Plan carried over the maintenance and monitoring of BMPs originally recommended in the 2010 BMP Plan for the Outfall 008 and 009 Watersheds (MWH *et al.*, 2010) and BMP Plan Addenda (Geosyntec and the Expert Panel, 2011; Geosyntec and the Expert Panel, 2012; Geosyntec and the Expert Panel, 2013; and Geosyntec and the Expert Panel, 2014), as well as those reported in the ISRA Performance Monitoring and BMP Monitoring Reports for Outfalls 008 and 009 Watersheds submitted to the Regional Board for each rainy season from 2010 through 2015 (MWH, 2010; MWH *et al.*, 2011; MWH *et al.*, 2012; MWH *et al.*, 2013; MWH *et al.*, 2014, and MWH *et al.*, 2015).

The 2015 Work Plan is designed to assess the effectiveness of BMPs/treatment control implementation measures based on surface water samples collected at outfalls and supplemented by monitoring data. Incorporated into the 2015 Work Plan is a memorandum Geosyntec Consultants developed for Boeing and the Surface Water Expert Panel summarizing the evaluation of stormwater BMP opportunities along the Service Area Road. Subsequent to Geosyntec's memorandum, Boeing conducted surveys along Service Area Road and completed additional design iterations to support diverting surface flow from the roadway to existing culvert modifications and maximize the capture area. BMP implementation is anticipated for the fourth quarter 2016 or early 2017 (Geosyntec and the Expert Panel, 2015b). The 2015 Work Plan also includes recommended non-industrial sources special studies,

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<sup>1</sup> Available at: <http://www.boeing.com/principles/environment/santa-susana/permits.page>



intended to help identify sources of lead and dioxins within the Outfall 009 watershed. The special studies involve vacuum sampling of pavement solids, pan sampling of atmospheric deposition solids, soil sampling around treated wood poles, and sediment and stormwater sampling at multiple locations along the Northern Drainage. A subset of sampling for the various studies was conducted in the Third Quarter 2016. As outlined in the 2015 Work Plan, the 2015/2016 Annual Report was submitted to the RWQCB in October 2016 (Geosyntec and the Expert Panel, 2016).

#### OUTFALL 008/009 ISRA AND BMP PLAN-RELATED ACTIVITIES

The BMP activities discussed below were performed, commenced, or completed during Third Quarter 2016 in coordination with the Expert Panel.

##### *Former Building 1436 Detention Bioswales*

Two detention bioswales were constructed at the former B1436 following its removal in Third Quarter 2014. The graded surface was hydroseeded and more than 2,900 native plantings were installed in December 2014. The bioswales were designed to capture, pretreat and detain runoff from the adjacent parking lot and from approximately 13.9 acres of drainage area east and upgradient, prior to releasing this stormwater to the former Instrument and Equipment Laboratories (IEL) storm drain where flow is diverted to the lower lot biofilter for treatment. Third Quarter 2016 activities included inspections of the bioswales and hydroseeded areas.

##### *Lower Lot Biofilter*

The lower lot biofilter is a stormwater treatment BMP designed and built to capture, convey, and treat stormwater runoff from the lower parking lot and former IEL watershed. The lower lot biofilter consists of a 30,000-gallon cistern, a stormwater conveyance line, a sedimentation basin, and a media biofilter. Construction activities were completed on March 15, 2013; a Regional Board and public tour of the completed biofilter was conducted on March 20, 2013.

Third Quarter 2016 activities included inspections to verify that the sedimentation basin and biofilter were free of sediment and debris, checks of the cistern area and pump, and inspections of surrounding BMPs. The cistern pump flange was cleaned and the pump re-seated to seal properly. Due to lack of rainfall, no stormwater was diverted to or pumped from the cistern to the sedimentation basin during Third Quarter 2016.

##### *NASA Expendable Launch Vehicle (ELV) Area BMPs*

BMPs and drainage improvements were installed between June and October 2013 at NASA ELV to improve the quality of stormwater from the ELV area. Stormwater is gravity-driven through the tank system, starting with the settling tanks, then through the filter media tank, before discharging to a tributary that flows to Outfall 009. Third Quarter 2016 activities included inspections of the BMPs.

##### *NASA and Boeing BMP Monitoring Related Maintenance Activities*

No BMP Plan-related activities were performed for Outfalls 008/009 during Third Quarter 2016.

## **NORTHERN DRAINAGE BMPS**

Boeing has actively worked to restore the Northern Drainage following cleanup activities performed under the oversight of the Department of Toxic Substances Control (DTSC) and in accordance with the requirements of Regional Water Quality Control Board (RWQCB) Cleanup and Abatement Order No. R4-2007-0054 (RWQCB, 2007). The restoration and mitigation activities proposed in the Northern Drainage Restoration, Mitigation, and Monitoring Plan (RMMP)<sup>2</sup> were implemented beginning in 2012. In accordance with the RMMP, regular maintenance, monitoring, and reporting have been implemented in the Northern Drainage since 2012 for the stream's plant biology and geomorphology. Biological activities include botanical and California Rapid Assessment Method surveys, plant watering only during periods of excessive heat, and weeding of non-native species. Geomorphic activities include stabilization measure inspections, physical surveying, facies mapping, photographic surveying, annual stream walks, as-needed maintenance, and annual geomorphic monitoring reports.

Biological activities performed in Third Quarter 2016 included weekly watering, periodic weeding, and a quarterly monitoring inspection on 14 September 2016.

No geomorphic field activities were performed in Third Quarter 2016 because: (1) no significant geomorphic events such as observed or measured runoff, fire, or construction within the Northern Drainage watershed have occurred since the stabilization measure inspection, stream walk, and photographic survey on 29 March 2016; and (2) no significant geomorphic adjustments were observed on 29 March 2016, in the monitoring reaches defined by the physical survey through qualitative monitoring efforts.

## **REASONABLE POTENTIAL ANALYSIS**

No surface water discharges occurred from the Santa Susana Site during Third Quarter 2016 therefore no data were generated and no reasonable potential analysis was performed.

## **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, analyses of 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. Measures were implemented by the analytical laboratory to monitor and/or evaluate low level detections, analyze for interferences, and 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 presents the State Board's minimum levels (MLs) for use in reporting and determining compliance with NPDES Permit limits. The analytical laboratory achieved these MLs in the Third Quarter 2016. In cases where the NPDES Permit limit is less than the reporting limit (RL) and ML, the RL was used to determine compliance.

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<sup>2</sup> Available at: <http://www.boeing.com/principles/environment/santa-susana/technical-reports.page>



**CONCLUSIONS**

Boeing continues to improve water quality at stormwater discharge locations at the Santa Susana Site through methods designed to preserve the natural conditions in the watershed to the maximum extent feasible by implementing sustainable erosion control/restoration measures and continuing our collaboration with the Expert Panel.

**FACILITY CONTACT**

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

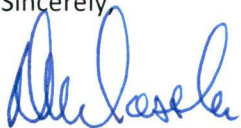
**CERTIFICATION**

I certify under penalty of law that this document and all attachments 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 knowing violations.

Executed on the 15th of November 2016 at The Boeing Company, Santa Susana Site.

Sincerely,



David W. Dassler P.E.  
Southwest Remediation Manager  
The Boeing Company

**Enclosures:**

## References

Figure 1 – Site Map with Stormwater Collection and Conveyance System and Site Features

Figure 2 – Arroyo Simi – Frontier Park (RSW-002) Sampling Location

Appendix A – Third Quarter 2016 Rainfall Data Summary

Appendix B – Third Quarter 2016 Waste Shipment Summary Tables

Appendix C – Third Quarter 2016 Discharge Monitoring Data Summary Tables

Appendix D – Third Quarter 2016 Analytical Laboratory Report, Chain of Custody, and Validation Report

cc: Ms. Cassandra Owens, RWQCB  
Mr. Mark Malinowski, DTSC  
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