



The Boeing Company
Santa Susana Field Laboratory
5800 Woolsey Canyon Road
Canoga Park, CA 91304-1148

Via CIWQS

November 15, 2025

In reply refer to SHEA-117008

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

Subject: Third Quarter 2025 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 July 1 through September 30, 2025 (Third Quarter 2025). This DMR was prepared as required by, and in accordance with, the National Pollutant Discharge Elimination System Permit No. CA0001309 (NPDES Permit) issued by the Los Angeles California Regional Water Quality Control Board (Regional Board) in 2023 (California Regional Water Quality Control Board, Los Angeles Region, 2023). The NPDES Permit covers the entire Santa Susana Site, which includes approximately 2,400 acres owned by Boeing and approximately 450 acres owned by the United States and administered by the National Aeronautics and Space Administration (NASA). Department of Energy (DOE) has assumed responsibility to remediate approximately 472 acres of Boeing's land.

An electronic version of this DMR is located at: <http://www.boeing.com/principles/environment/santa-susana/monitoring-reports.page>.

THIRD QUARTER 2025 DMR COVER LETTER CONTENTS

This DMR cover letter includes the following sections and attachments:

- Stormwater Treatment System Activities
- Discharge and Sample Collection Summary
- Summary of Exceedances and/or Non-Compliance
- Stormwater Pollution Prevention Plan/Best Management Practice Activities
- List of Tables (included as attachments)
 - TABLE 1: SWTS Maintenance Activities, Third Quarter 2025
 - TABLE 2: Sampling Record, Third Quarter 2025
 - TABLE 3: BMP Activities, Third Quarter 2025

STORMWATER TREATMENT SYSTEM ACTIVITIES

The Stormwater Treatment System (SWTS), located near R-1 Pond (SWTS 011, see Figure 1), discharges through Outfall 011. The SWTS located at Silvernale Pond (SWTS 018, see Figure 1) discharges through Outfall 018. SWTS maintenance activities completed in the Third Quarter 2025 are included in Table 1.

SWTS 011 and SWTS 018 did not operate during the Third Quarter 2025.

DISCHARGE AND SAMPLE COLLECTION SUMMARY

One qualifying rain event occurred during the Third Quarter 2025 (Appendix A). No discharge occurred at any of the outfalls; therefore, no samples were collected. There were no changes in the discharges as described in the NPDES Permit during the reporting period.

One quarterly off-site receiving water sample was collected at the Arroyo Simi location (RSW-002, Frontier Park; see Figure 2). No discharge occurred at the Arroyo Simi upstream location (RSW-003); therefore, no samples were collected.

Table 2 summarizes the Third Quarter 2025 sampling record by outfall or location, sample frequency, and sample type collected per NPDES Permit requirements. Sample results are included in Appendix C.

Boeing affirms that “With the exception of field tests, all analyses were conducted at a laboratory certified for such analyses by the State Water Board, Division of Drinking Water, Environmental Laboratory Accreditation Program or approved by the Executive Officer and in accordance with current U.S. EPA guideline procedures or as specified in this [Monitoring and Reporting Program] MRP.” Validation reports are included in Appendix D.

SUMMARY OF EXCEEDANCES AND/OR NON-COMPLIANCE

No surface water discharges occurred from the Santa Susana Site during Third Quarter 2025. As such, there are no on-site compliance issues to report for this period. Additionally, in the quarterly surface water sample collected at Arroyo Simi sampling location (RSW-002, Frontier Park) in Simi Valley, no constituents exceeded receiving water limits.

STORMWATER POLLUTION PREVENTION PLAN/BEST MANAGEMENT PRACTICE ACTIVITIES

BOEING-RELATED ACTIVITIES

Boeing implemented Best Management Practice (BMP) activities in compliance with the site-wide Stormwater Pollution Prevention Plan (SWPPP; Haley & Aldrich, Inc., 2024) to assist in improving stormwater quality and compliance at the Santa Susana Site. The SWPPP includes a summary of areas of past industrial activity; a description of past industrial and current remediation activities; assessments of potential pollutant sources; and descriptions of implemented BMPs. Boeing updates the SWPPP annually to reflect updated site conditions.

Additional BMP activities were performed, commenced, or completed during the Third Quarter 2025 in coordination with the Expert Panel. Table 3 summarizes the BMP activities and equipment maintenance completed during the Third Quarter 2025 by outfall or BMP location.

In addition to site-wide SWPPP-related activities, specific BMP projects included NASA and DOE activities. These are discussed below.

NASA-RELATED ACTIVITIES

During the Third Quarter 2025, NASA inspected and maintained demolition BMPs and stormwater activities in accordance with their Coca area Construction SWPPP and the Construction General Permit (CGP; NASA, 2023). NASA maintained fiber rolls and sandbags as perimeter and linear sediment controls in areas where construction activities were occurring or had been completed.

DOE-RELATED ACTIVITIES

DOE reported no BMP-related activities during the Third Quarter 2025.

CONCLUSIONS

Boeing is committed to fulfilling the requirements of the NPDES Permit and continues to implement, maintain, and monitor wide-ranging control practices intended 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. The Surface Water Expert Panel is reviewing the data collected and will make BMP and monitoring recommendations that will be communicated in the Surface Water Expert Panel's 2025 Annual Report.

FACILITY CONTACT

If there are any questions regarding this report or its enclosures, you may contact Mr. Jeffrey Wokurka of Boeing at (818) 466-8800.

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 2025 at The Boeing Company, Seal Beach, California Site.

Sincerely,

Kim O'Rourke

Kim O'Rourke
Global Remediation and Due Diligence Program Manager
Global Enterprise Sustainability - Environment



Enclosures:

References

Table 1 - SWTS Maintenance Activities, Third Quarter 2025

Table 2 - Sampling Record, Third Quarter 2025

Table 3 - BMP Activities, Third Quarter 2025

Attachments:

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

Figure 2 - Arroyo Simi Receiving Water Sampling Locations RSW-002 (Downstream) and RSW-003 (Upstream)

Appendix A - Rainfall Data Summary, Third Quarter 2025

Appendix B - Waste Shipment Summary Table, Third Quarter 2025

Appendix C - Discharge Monitoring Data Summary Tables, Third Quarter 2025

Appendix D - Validation Reports, Third Quarter 2025

REFERENCES

1. California Regional Water Quality Control Board, Los Angeles Region, 2023. *Waste Discharge Requirements for The Boeing Company, Santa Susana Field Laboratory (Order No. R4-2023-0359, NPDES No. CA0001309, CI Number 6027)*. 19 October.
2. Haley & Aldrich, Inc., 2024. *Stormwater Pollution and Prevention Plan (Version 1 for Compliance with 2023 NPDES Permit)*. 29 March. Updated annually.
3. National Aeronautics and Space Administration, 2023. *Stormwater Pollution and Prevention Plan for Demo SSFL Phase 7 - NASA Area II, Ventura County, California*. October.
4. Jacobs, 2023. *Stormwater Pollution Prevention Plan (SWPPP) for Santa Susanna Field Laboratory Area I Burn Pit Removal Action, Ventura County, California*. August.
5. Stantec Consulting Services, Inc., 2022. *Stormwater Pollution Prevention Plan for Former Shooting Range Remedial Action, Santa Susana Field Laboratory, Ventura County, California*. August.

TABLES

TABLE 1
SWTS MAINTENANCE ACTIVITIES, THIRD QUARTER 2025
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

SWTS	Activities During Third Quarter 2025
011	– Pressure washed and painted all carbon vessels.
	– Pressure washed and began painting sand filter vessels.
018	– Completed painting sand filters, carbon vessels, and sand pumps.
	– Performed confined space entries and removed solids from ACTIFLO chambers, Weir Tanks, and Buffer Tank.
	– Reinstalled sand filter lids and replaced valves/tubing in multiple chemical boxes.
	– Troubleshoot PLC connectivity issues at ACTIFLO with technician support.
	– Sandblasted and applied protective coating to weir tank.
	– Cleared brush around staff gauge for visibility and access.
	– Removed and replaced broken valve under OCT tank.

TABLE 2
SAMPLING RECORD, THIRD QUARTER 2025
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

Date (Grab)	Date (Composite)	Outfall/Location	Sample Frequency
8/26/2025	NA	Arroyo Simi Downstream Receiving Water (RSW-002)	Quarterly

Notes:

N/A = Not applicable.

Quarterly = 1 per quarter.

TABLE 3

BMP ACTIVITIES, THIRD QUARTER 2025

THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

Outfall, Watershed, BMP, or Other Location	BMP Activities During Third Quarter 2025
<i>SWPPP-Related Activities</i>	
001, 002, 003, 004, 006, 008, 009, 010, 011, 018	<ul style="list-style-type: none"> - Cleaned sample box and flume. - Performed annual calibration of autosamplers and flowmeters. - Performed weed abatement.
002	<ul style="list-style-type: none"> - Replaced flowmeter tubing. - Serviced check valves and modified piping for improved operational flexibility.
003	<ul style="list-style-type: none"> - Installed new solar panels and controller housing for autosampler and flowmeter power supply. - Ran new wiring for autosamplers to resolve electrical issues. - Replaced autosampler tubing.
004	<ul style="list-style-type: none"> - Replaced autosampler pump tubing. - Performed weed abatement and leaf debris removal around the Master Control Center (MCC) and spillway. - Re-set the float switch and serviced check valves.
005	<ul style="list-style-type: none"> - Performed weed abatement at surrounding drainage pathways
006	<ul style="list-style-type: none"> - Replaced autosampler tubing and flowmeter tubing. - Disassembled and serviced check valves to resolve air gap issues.
007	<ul style="list-style-type: none"> - Performed weed abatement and vegetation control.
008	<ul style="list-style-type: none"> - Cleaned check dams upstream of flume. - Installed new solar panels and junction box to house controller. - Replaced autosampler batteries and internal components. - Replaced flowmeter tubing.
009	<ul style="list-style-type: none"> - Replaced autosampler batteries, cleaned enclosure, and troubleshot latching issues. - Replaced autosampler tubing.
010	<ul style="list-style-type: none"> - Replaced autosampler batteries. - Replaced autosampler tubing.
011	<ul style="list-style-type: none"> - Fixed strainers for autosamplers. - Replaced autosampler tubing and flowmeter tubing.
018	<ul style="list-style-type: none"> - Installed and mounted solar panels and junction box. - Replaced batteries and corroded fuses at autosampler. - Replaced autosampler tubing.
R-2A Pond	<ul style="list-style-type: none"> - Performed weed abatement along conveyance line, walkways, and MCC. - Placed gravel along walkway to improve access.

TABLE 3

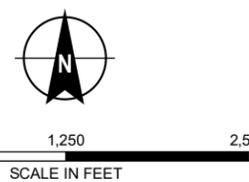
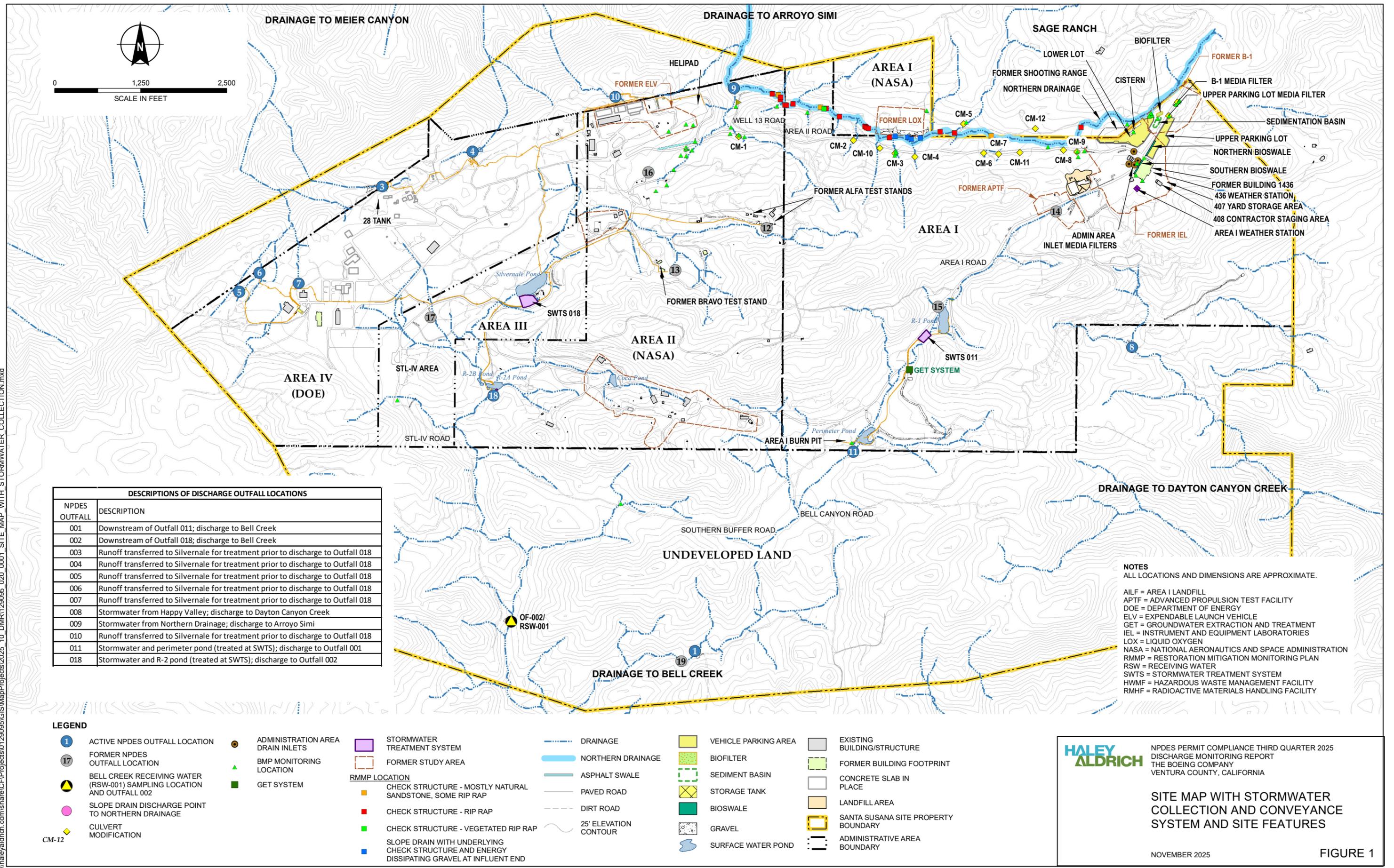
BMP ACTIVITIES, THIRD QUARTER 2025

THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

Outfall, Watershed, BMP, or Other Location	BMP Activities During Third Quarter 2025
SWPPP-Related Activities (continued)	
Area I Weather Station	<ul style="list-style-type: none"> – Performed the semiannual audit. – Performed weed abatement.
Helipad	<ul style="list-style-type: none"> – Installed riprap along dam for erosion protection. – Repaired and set float switches. – Placed Charles King pumps in preparation of the rainy season.
Lower Lot	<ul style="list-style-type: none"> – Removed and disposed of spent wattles, sandbags, and debris stockpiles. – Performed weed abatement and general housekeeping.
408 Yard	<ul style="list-style-type: none"> – Performed weed abatement and general housekeeping.
28 Tank Area	<ul style="list-style-type: none"> – Performed weed abatement.
Other SWPPP-Related Activities	
Former Shooting Range	<ul style="list-style-type: none"> – Installed and replaced wattles. – Conducted activities in accordance with the SWPPP for Former Shooting Range Remedial Action (Stantec, 2022).
Area I Burn Pit	<ul style="list-style-type: none"> – Performed weed abatement along road and by the new tank. – Replaced spent sandbags and covered them with felt. – Conducted activities in accordance with the SWPPP for Area I Burn Pit Removal Action (Jacobs, 2023).
Expert Panel-Related Activities	
Culvert Modifications (CM)	<ul style="list-style-type: none"> – Photo documented CMs and identified action items that required maintenance.
B-1 Area	<ul style="list-style-type: none"> – Removed leaves and debris from the B-1 gunite swale sample area.
Upper Parking Lot Media Filter	<ul style="list-style-type: none"> – Performed weed abatement and removed leaves and debris.
Former Building 1436 Bioswales	<ul style="list-style-type: none"> – Removed leaves and debris.
Lower Lot Biofilter (Sedimentation Basin and Biofilter)	<ul style="list-style-type: none"> – Removed leaves and debris. – No stormwater was pumped from the cistern to the sedimentation basin during the Third Quarter 2025.
Administration Area Inlet Filters	<ul style="list-style-type: none"> – Removed leaves and debris.
NASA and Boeing BMP Monitoring-Related Activities	<ul style="list-style-type: none"> – No BMP performance monitoring samples were collected in the Third Quarter 2025.

FIGURES

\\haleyaldrich.com\share\CP\Projects\2025_10_DM\129095_020_001_SITE_MAP_WITH_STORMWATER_COLLECTION.mxd



NPDES OUTFALL	DESCRIPTION
001	Downstream of Outfall 011; discharge to Bell Creek
002	Downstream of Outfall 018; discharge to Bell Creek
003	Runoff transferred to Silvernale for treatment prior to discharge to Outfall 018
004	Runoff transferred to Silvernale for treatment prior to discharge to Outfall 018
005	Runoff transferred to Silvernale for treatment prior to discharge to Outfall 018
006	Runoff transferred to Silvernale for treatment prior to discharge to Outfall 018
007	Runoff transferred to Silvernale for treatment prior to discharge to Outfall 018
008	Stormwater from Happy Valley; discharge to Dayton Canyon Creek
009	Stormwater from Northern Drainage; discharge to Arroyo Simi
010	Runoff transferred to Silvernale for treatment prior to discharge to Outfall 018
011	Stormwater and perimeter pond (treated at SWTS); discharge to Outfall 001
018	Stormwater and R-2 pond (treated at SWTS); discharge to Outfall 002

NOTES
 ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.

AILF = AREA I LANDFILL
 APTF = ADVANCED PROPULSION TEST FACILITY
 DOE = DEPARTMENT OF ENERGY
 ELV = EXPENDABLE LAUNCH VEHICLE
 GET = GROUNDWATER EXTRACTION AND TREATMENT
 IEL = INSTRUMENT AND EQUIPMENT LABORATORIES
 LOX = LIQUID OXYGEN
 NASA = NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
 RMMP = RESTORATION MITIGATION MONITORING PLAN
 RSW = RECEIVING WATER
 SWTS = STORMWATER TREATMENT SYSTEM
 HWMF = HAZARDOUS WASTE MANAGEMENT FACILITY
 RMHF = RADIOACTIVE MATERIALS HANDLING FACILITY

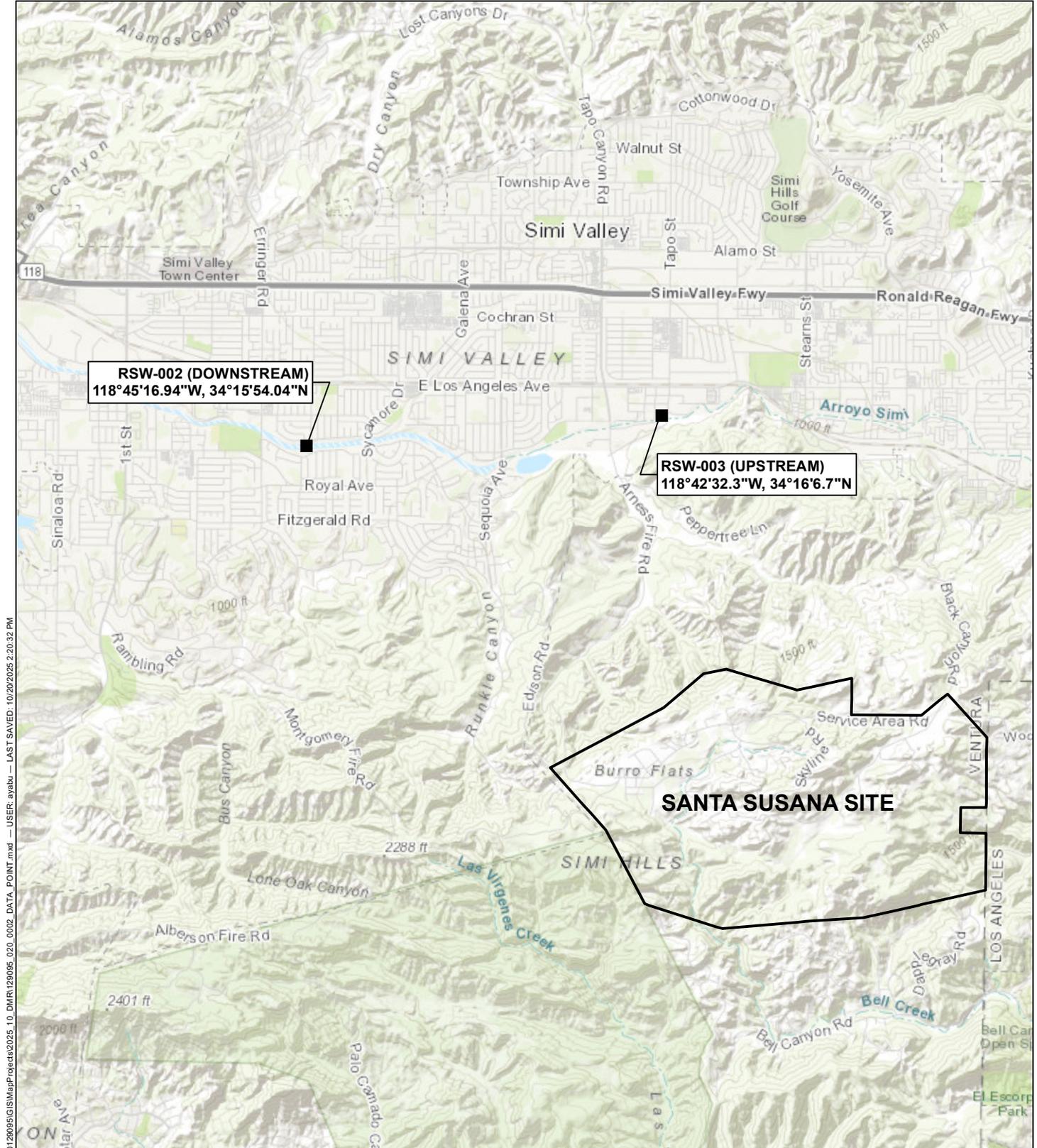
- LEGEND**
- ① ACTIVE NPDES OUTFALL LOCATION
 - ①7 FORMER NPDES OUTFALL LOCATION
 - 🟡 BELL CREEK RECEIVING WATER (RSW-001) SAMPLING LOCATION AND OUTFALL 002
 - 🟡 SLOPE DRAIN DISCHARGE POINT TO NORTHERN DRAINAGE
 - 🔹 CULVERT MODIFICATION
 - 🟤 ADMINISTRATION AREA DRAIN INLETS
 - 🟢 BMP MONITORING LOCATION
 - 🟢 GET SYSTEM
 - RMMP LOCATION**
 - 🟠 CHECK STRUCTURE - MOSTLY NATURAL SANDSTONE, SOME RIP RAP
 - 🔴 CHECK STRUCTURE - RIP RAP
 - 🟢 CHECK STRUCTURE - VEGETATED RIP RAP
 - 🔵 SLOPE DRAIN WITH UNDERLYING CHECK STRUCTURE AND ENERGY DISSIPATING GRAVEL AT INFLUENT END
 - 🟡 STORMWATER TREATMENT SYSTEM
 - 🔴 FORMER STUDY AREA
 - 🔵 DRAINAGE
 - 🔵 NORTHERN DRAINAGE
 - 🔵 ASPHALT SWALE
 - 🔵 PAVED ROAD
 - 🔵 DIRT ROAD
 - 🔵 25' ELEVATION CONTOUR
 - 🟡 VEHICLE PARKING AREA
 - 🟢 BIOFILTER
 - 🟢 SEDIMENT BASIN
 - 🟢 STORAGE TANK
 - 🟢 BIOSWALE
 - 🟢 GRAVEL
 - 🟢 SURFACE WATER POND
 - 🔵 EXISTING BUILDING/STRUCTURE
 - 🟢 FORMER BUILDING FOOTPRINT
 - 🔵 CONCRETE SLAB IN PLACE
 - 🟡 LANDFILL AREA
 - 🟡 SANTA SUSANA SITE PROPERTY BOUNDARY
 - 🔵 ADMINISTRATIVE AREA BOUNDARY

HALEY ALDRICH

NPDES PERMIT COMPLIANCE THIRD QUARTER 2025
 DISCHARGE MONITORING REPORT
 THE BOEING COMPANY
 VENTURA COUNTY, CALIFORNIA

SITE MAP WITH STORMWATER COLLECTION AND CONVEYANCE SYSTEM AND SITE FEATURES

NOVEMBER 2025 FIGURE 1



GIS FILE PATH: \\haleyaldrich.com\share\CP\Project\0129095\GIS\Map\Project\0129095_020_0002_DATA_POINT.mxd — USER: ayabu — LAST SAVED: 10/20/2025 2:20:32 PM



0 0.5 1
SCALE IN MILES

**HALEY
ALDRICH**

NPDES PERMIT COMPLIANCE THIRD QUARTER 2025
DISCHARGE MONITORING REPORT
THE BOEING COMPANY
VENTURA COUNTY, CALIFORNIA

ARROYO SIMI RECEIVING WATER
SAMPLING LOCATIONS
RSW-002 (DOWNSTREAM) AND
RSW-003 (UPSTREAM)

NOVEMBER 2025

FIGURE 2

APPENDIX A

Rainfall Data Summary, Third Quarter 2025

TABLE A
DAILY RAINFALL SUMMARY
 THIRD QUARTER 2025
 THE BOEING COMPANY - SSFL
 NPDES PERMIT CA0001309

Station: AREA 1
 Parameter: Inches of Rain
 Month/Year: July 2025

HOUR OF THE DAY, PACIFIC STANDARD TIME

	HR-BEG	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	HR-END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	DAY																									Total
D A Y O F T H E M O N T H	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Monthly Total 0.00

TABLE A
DAILY RAINFALL SUMMARY
 THIRD QUARTER 2025
 THE BOEING COMPANY - SSFL
 NPDES PERMIT CA0001309

Station: AREA 1
 Parameter: Inches of Rain
 Month/Year: August 2025

HOUR OF THE DAY, PACIFIC STANDARD TIME

	HR-BEG	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
	HR-END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
	DAY																									Total
D A Y O F T H E M O N T H	1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Monthly Total 0.00

HOUR OF THE DAY, PACIFIC STANDARD TIME

	HR-BEG	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Total
	HR-END	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
DAY																										
D A Y O F T H E M O N T H	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	d	d	d	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	18	0.00	0.00	0.06	0.05	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15
	19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	26	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02
	27	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Monthly Total 0.18

Flags: d = Off-line part of hour. Invalid hour due to semiannual audit (September 8). For the off-line event, the rain gauge at Sage Ranch did not record measurable rainfall on September 8 during hours 0500 through 0800.

APPENDIX B

Waste Shipment Summary Table, Third Quarter 2025

TABLE B
WASTE SHIPMENT SUMMARY TABLE
 THIRD QUARTER 2025
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

Transported Spills						
Type of Stormwater	Matrix	Quantity	Units	Transporter 1	Transporter 2	Destination
Non RCRA Hazardous Waste Solids (Soil)	Solid	25	P	Patriot Environmental Services 508 East E Street Wilmington, CA 90744	n/a	U.S. Ecology HWY 95, 11 Miles S. Of Beatty Beatty NV 89003

Transported Stormwater						
Type of Stormwater	Matrix	Quantity	Units	Transporter 1	Transporter 2	Destination
Non Hazardous Waste	Liquid	5,000	G	Southwest Processors, Inc. 4120 Bandini Boulevard Vernon, CA 90058	n/a	Southwest Processors, Inc. 4120 Bandini Boulevard Vernon, CA 90058

Notes:
n/a = Not Applicable
G = Gallons
P = Pounds

APPENDIX C

Discharge Monitoring Data Summary Tables, Third Quarter 2025

APPENDIX C

TABLE OF CONTENTS

Reporting Summary Notes

C-3. Arroyo Simi Receiving Waters

C-3.A. RSW-002 (Downstream)

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

Not all the following notes, abbreviations, symbols, or acronyms occur on every table:

1. Exceedances are constituents detected in excess of daily maximum permit limits or receiving water limits. Analytical concentrations or calculations to determine compliance to the National Pollutant Discharge Elimination System (NPDES) permit are compared to the same number of significant figures as the daily maximum permit limits or receiving water limits.
2. Dissolved metals are filtered by the laboratory and reported as “Metal, dissolved”. Total metals are not filtered by the laboratory and reported as “Metal”.
3. If the laboratory reported multiple analytical results for the same analyte, the table shows the result with the lowest reporting limit.
4. Abbreviations, symbols, and acronyms:

-92.9 +/-200	A negative radiochemical analytical result indicates the count rate of the sample was less than the background condition. Radiological results are presented as activity plus or minus total uncertainty.
%	Percent.
\$	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 NPDES permit limit established for daily maximum or receiving water limit.
>(value)	Greater than most probable number.
*	Result not validated.
**	Flow for each outfall is calculated over the 24-hour period when the outfall autosampler is operating to collect the composite sample. See definition of “Daily Discharge” on page A-1 of attachment A of the 2023 NPDES permit.
*1	Improper preservation of sample.
*3	Initial and or continuing calibration recoveries were outside acceptable control limits.
*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.
*III	Unusual problems found with the data that have been described in the validation report.
ANR	Analysis not required; e.g., constituent or outfall was not required by the NPDES permit to be sampled and analyzed over the reporting period (annual, semi- annual, etc.).
B	Presumed contamination as indicated by the preparation (method) blank results.
BEF	Bioaccumulation equivalency factor.
C	Calibration %RSD or %D was noncompliant or Correlation coefficient is <0.995.
Comp	Composite sample.
CEs/100 ml	Cell equivalents per 100 milliliters.
D	The analysis with this flag should not be used because another more technically sound analysis is available.
Deg C	Degrees Celsius.

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

Deg F	Degrees Fahrenheit.
DL	Detection limit.
DNQ	Detected but not quantified (constituent value greater than or equal to the laboratory method detection limit and less than the laboratory reporting limit).
E	E in validation qualifier indicates that duplicates show poor agreement.
F	The analyte was detected in an associated field blank (FB) or equipment blank (EB) as well as in the sample.
FB	Field blank.
ft/sec	Feet per second.
gpd	Gallons per day.
H	Holding time was exceeded.
I	Internal standard performance was unsatisfactory.
J	Estimated value.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
L	Laboratory control standard (LCS)/laboratory control standard duplicate (LCSD), relative percent difference (RPD) was outside the control limit.
LBS/DAY	Pounds per day.
MDL	Method detection limit.
Meas	Measure sample type.
MFL	Million fibers per liter.
MGD	Million gallons per day.
mg/L	Milligrams per liter.
mg/kg	Milligrams per kilogram.
ml/L	Milliliters per liter.
ml/L/hr	Milliliters per liter per hour.
MPN/100 mL	Most probable number per 100 milliliters.
MQL	Method quantitation limit.
MS	Matrix spike.
MSD	Matrix spike duplicate.
mS/cm	MilliSiemens per centimeter.
NA	Not applicable (i.e., NPDES permit limit not established for the constituent and/or outfall or analyte not required per receiving water monitoring requirements.)
ND	Analyte not detected.
ng/L	Nanograms per liter.
NM	Not measured or determined or minimum detectable activities (MDAs) are not calculated as there is no statistical method for combining MDAs.
NOEC	No observed effect concentration
NPDES	National Pollutant Discharge Elimination System.
NR	Not reported by laboratory by the deadline of this report.
NTU	Nephelometric turbidity unit.
ppb	Parts per billion.

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

pCi/L	PicoCuries per liter.
Q	Matrix spike (MS)/matrix spike duplicate (MSD) relative percent difference (RPD) was outside the control limit.
R	As a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified.
(R)	Percent recovery (%R) for calibration not within control limits.
RL	Laboratory reporting limit.
RPD	Relative percent difference.
%R	Percent recovery.
S	Surrogate recovery was outside control limits.
s.u.	Standard unit.
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin.
TEQ	Toxic equivalent.
TIC	Tentatively identified compound
TIE	Toxicity identification evaluation
T	Presumed contamination, as indicated by a detect in the trip blank.
U	Result not detected.
µg/L	Micrograms per liter.
µg/g	Micrograms per gram.
µg/kg	Micrograms per kilogram.
µmhos/cm	Micromhos per centimeter.
UJ	Result not detected at the estimated reporting limit.
WHO TEF	World Health Organization toxic equivalency factor.
(a)	Analysis not completed due to hold time exceedance or insufficient sample volume.
(b)	The composite sample was collected as a grab sample from the stream due to insufficient flow.
(c)	Total Ammonia is reported in wet weight units' milligrams per kilogram (mg/kg).
(d)	Total organic carbon (TOC) is reported in dry weight units. Permit asks for TOC units in % dry weight, but data is provided in dry unit milligrams per kilogram (mg/kg).
(e)	The composite sample was collected as a grab sample from the sample box due to insufficient flow.
(f)	The grab sample was collected at the first opportunity given the short duration and low flow at this Outfall.
(g)	Unsafe conditions all day prevented access to the Outfall.
(h)	Various constituents were analyzed by laboratory due to field and laboratory error.
(i)	Reanalysis.
(j)	Sample collected in addition to NPDES permit required sampling frequency.
(k)	Composite sample collected from sample box due to cracked autosampler tubing resulting in low volume recovery.
(l)	Various field parameter(s) analyzed out of hold time due to field and/or laboratory error.
(m)	Analysis performed on composite sample instead of grab sample due to field error.

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

(n)	Permit limit does not apply to receiving water.
(o)	Analyte was reported as a TIC.
(p)	Particle size distribution is reported in percent units. Permit asks for particle size distribution units in μm , but data is provided in percent (%).
(q)	The Discharger has the option to meet the hexavalent chromium limitations with a total chromium analysis. However, if the total chromium level exceeds the hexavalent chromium limitation, it will be considered a violation unless an analysis has been made for hexavalent chromium in a replicate sample and the result reported is within the hexavalent chromium limits.
(r)	Statistical Threshold Value (STV): E. coli density shall not exceed 320 cfu or MPN/100mL by more than 10 percent of the samples collected in a calendar month, calculated in a static manner.

TABLE C-3.A
RSW-002 (DOWNSTREAM)
 THIRD QUARTER 2025
 THE BOEING COMPANY
 SANTA SUSANA FIELD LABORATORY
 NPDES PERMIT CA0001309

ANALYTE	SAMPLE TYPE	UNITS	METHOD	ML	DAILY MAXIMUM LIMIT	SAMPLE FREQUENCY	LOCATION	RSW-002			
							DATE RANGE	8/26/2025 07:00 AM			
							RESULT	MDL	RL	LAB/ VALIDATION QUALIFIER	
4,4'-DDD	Grab	µg/L	E608.3	0.05	-	1/Quarter	ND	0.027	0.05	U	
4,4'-DDE	Grab	µg/L	E608.3	0.05	-	1/Quarter	ND	0.037	0.05	U	
4,4'-DDT	Grab	µg/L	E608.3	0.01	-	1/Quarter	ND	0.05	0.05	U	
Aroclor 1016	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.75	5	U	
Aroclor 1221	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.6	5	U	
Aroclor 1232	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.83	5	U	
Aroclor 1242	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.95	5	U	
Aroclor 1248	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.83	5	U	
Aroclor 1254	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.4	5	U	
Aroclor 1260	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	0.55	5	U	
Chlordane	Grab	µg/L	E608.3	0.1	-	1/Quarter	ND	0.43	1	U	
Chlorpyrifos	Grab	µg/L	E625.1	-	0.014	1/Quarter	ND	0.0040	0.01	U	
Diazinon	Grab	µg/L	E625.1	-	0.010	1/Quarter	ND	0.0034	0.01	U	
Dieldrin	Grab	µg/L	E608.3	0.01	-	1/Quarter	ND	0.017	0.05	U	
Hardness (as CaCO3)	Grab	mg/L	SM2340	-	-	1/Quarter	660	0.5	7.1	--	
pH (Field)	Grab	s.u.	FIELDPARAM	-	6.5-8.5	1/Quarter	7.55	NM	NM	*	
Temperature (Field)	Grab	Deg F	FIELDPARAM	-	80	1/Quarter	74.6	NM	NM	*	
Toxaphene	Grab	µg/L	E608.3	0.5	-	1/Quarter	ND	1.5	5	U	
Water Velocity	Grab	ft/sec	FIELDPARAM	-	-	1/Quarter	0.0	NM	NM	*	

APPENDIX D

Validation Reports, Third Quarter 2025

Data Usability Summary Report

Project Name: The Boeing Company, Santa Susana Field Laboratory, NPDES

Project Description: Third Quarter 2025 Stormwater Samples

Sample Dates: August 26, 2025

Analytical Laboratory: Eurofins Calscience - Tustin, CA

Validation Performed by: Kristina Iliina

Validation Reviewed by: Denis Conley

Validation Date: October 21, 2025

Haley & Aldrich, Inc. has prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Groups (SDGs) listed. This DUSR is organized into the following sections:

- 1. Sample Delivery Group Numbers 570-244064-1 and 570-244064-2**
- 2. Explanations**
- 3. Glossary**
- 4. Abbreviations**
- 5. Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- National Functional Guidelines (NFG) for Inorganic Data Review (2020, November).
- National Functional Guidelines (NFG) for Organic Data Review (2020, November).

Data reported in this sampling event were reported to the laboratory method detection limit (MDL). Results found between the MDL and reporting limit (RL) are flagged J as estimated.

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs) and in accordance with the NFG, where applicable. The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are, therefore, usable; any exceptions are noted in the following pages and listed below.

1. Sample Delivery Group Numbers 570-244064-1 and 570-244064-2

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDGs:

- 570-244064-1, dated August 28, 2025; and
- 570-244064-2, dated October 3, 2025.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC.

- Samples for E608.3 and E625.1 analysis were subcontracted to Weck Laboratories, Inc - City of Industry, CA.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
RSW-002_20250826_Grab	N	570-244064-1	8/26/2025	WM	A, B
RSW-002_20250826_Grab	N	5H26081-01	8/26/2025	WM	C, D

Method Holding Times			
A.	E200.7	Metals, Total and Dissolved	180 days for liquid, preserved
B.	SM2340	Hardness	180 days for liquid, preserved
C.	E608.3	Organochlorine Pesticides and PCBs by Gas Chromatograph (GC)/ Halogen Specific Detector (HSD)	7 days extraction / 40 days analysis for liquid, unpreserved
D.	E625.1	Chlorpyrifos and Diazinon	7 days extraction / 40 days analysis for liquid, unpreserved

1.2 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory at the proper temperature and were prepared and analyzed within the holding time and preservation criteria specified in accordance with the analytical method requirements, with the following exception:

- Field filtered samples were not analyzed within 15 minutes. No additional qualification of the project data is recommended.

1.3 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Dilution of the project samples were required due to the nature of matrix interferences.

1.4 SURROGATE RECOVERY COMPLIANCE

[Refer to Section E 1.2.](#) The percent recovery (%R) for each surrogate compound added to each project sample was determined to be within the laboratory-specified quality control (QC) limits with the following exceptions:

Method	Sample ID	Lab ID	Surrogate	Dilution	%R	Qualification
E608.3	RSW-002_20250826_Grab	570-244064-1	Decachlorobiphenyl	10x	157%	None, dilution > 5x

1.5 LABORATORY CONTROL SAMPLES

[Refer to Section E 1.3.](#) Compounds associated with the laboratory control samples/laboratory control sample duplicate (LCS/LCSD) analyses associated with client samples exhibited recoveries and relative percent differences (RPDs) within the specified limits.

1.6 MATRIX SPIKE SAMPLES

[Refer to Section E 1.4.](#) No client samples were used for matrix spike/matrix spike duplicate (MS/MSD) analysis in this SDG.

1.7 BLANK SAMPLE ANALYSIS

[Refer to Section E 1.5.](#) Method blank samples did not exhibit detections of target analytes, indicating that no contamination from laboratory activities occurred.

1.8 DUPLICATE SAMPLE ANALYSIS

[Refer to Section E 1.6.](#) The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

1.9 PRECISION AND ACCURACY

[Refer to Section E 1.7.](#) Where required by the method, a measurement of analytical accuracy and precision was reported with the project sample results for each method of analysis.

1.10 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are useable and acceptable as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.2 Surrogate Recovery Compliance
 - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the percent recovery (%R) of the compounds.
- E 1.3 Laboratory Control Samples
 - The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.4 Matrix Spike Samples
 - Matrix spike/matrix spike duplicate (MS/MSD) data are used to assess the precision and accuracy of the analytical method and evaluate the effects of the sample matrix on the sample preparation procedures and measurement methodologies.
 - For inorganic methods, when a matrix spike recovery falls outside of the control limits and the sample result is less than four times the spike added, a post-digestion spike (PDS) is performed.
- E 1.5 Blank Sample Analysis
 - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.6 Laboratory Duplicate Sample Analysis
 - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.7 Precision and Accuracy
 - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the relative percent difference (RPD) found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
 - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the percent recovery (%R) of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
 - EB Equipment Blank Sample
 - FB Field Blank Sample
 - FD Field Duplicate Sample
 - N Primary Sample
 - TB Trip Blank Sample
- Units:
 - % SURVIVAL percent survival
 - $\mu\text{g}/\text{kg}$ microgram per kilogram
 - $\mu\text{g}/\text{L}$ microgram per liter
 - $\mu\text{g}/\text{m}^3$ microgram per cubic meter
 - mg/kg milligram per kilogram
 - mg/L milligram per liter
 - mL/L milliliter per liter
 - $\text{mpn}/100\text{mL}$ most probable number per 100 milliliters
 - NTU nephelometric turbidity unit
 - pCi/L picocuries per liter
 - pg/g picogram per gram
 - pg/L picogram per liter
 - ppb v/v parts per billion volume/volume
 - $\mu\text{mhos}/\text{cm}$ micromhos per centimeter
- Matrices:
 - WM Stormwater
 - WMQ/WQ Water Quality control matrix
 - WS Surface Water
- Table Footnotes:
 - NA Not applicable
 - ND Non-detect
 - NR Not reported
- Common Symbols:
 - % percent
 - < less than
 - \leq less than or equal to
 - > greater than
 - \geq greater than or equal to
 - = equal
 - $^{\circ}\text{C}$ degrees Celsius
 - \pm plus or minus
 - \sim approximately
 - x times (multiplier)
- Fractions:
 - D Dissolved (filtered)
 - N Normal (method cannot be filtered)
 - T Total (unfiltered)

4. Abbreviations

Not all of the following symbols, acronyms, or qualifiers occur in this document.

%D	Percent Difference	MDL	Laboratory Method Detection Limit
%R	Percent Recovery	MS/MSD	Matrix Spike/Matrix Spike Duplicate
%RSD	Percent Relative Standard Deviation	NA	not applicable
%v/v	Percent volume by volume	ND	Non-Detect
2s	2 sigma	NFG	National Functional Guidelines
4,4-DDT	4 4-dichlorodiphenyltrichloroethane	NH ₃	Ammonia
Abs Diff	Absolute Difference	NYSDEC	New York State Department of Environmental Conservation
amu	atomic mass unit		
BPJ	Best Professional Judgement	PAH	Polycyclic Aromatic Hydrocarbon
BS	Blank Spike	PCB	Polychlorinated Biphenyl
CCB	Continuing Calibration Blank	PDS	Post Digestion Spike
CCV	Continuing Calibration Verification	PEM	Performance Evaluation Mixture
CCVL	Continuing Calibration Verification Low	PFAS	Per- and Polyfluoroalkyl Substances
		PFBA	Perfluorobutanoic Acid
COC	Chain of Custody	PFD	Perfluorodecalin
COM	Combined Isotope Calculation	PFOA	Perfluorooctanoic Acid
Cr (VI)	Hexavalent Chromium	PFOS	Perfluorooctane sulfonate
CRI	Collision Reaction Interface	PFPeA	Perfluoropentanoic Acid
DoD	Department of Defense	QAPP	Quality Assurance Project Plan
DQO	data quality objective	QC	Quality Control
DUSR	Data Usability Summary Report	QSM	Quality Systems Manual
EIS	Extraction Internal Standard	R ²	R-squared value
EMPC	Estimated Maximum Possible Concentration	Ra-226	Radium-226
		Ra-228	Radium-228
FBK	Field Blank Contamination	RESC	Resolution Check Measure
FDP	Field Duplicate	RER	Relative Error Ratio
GC	Gas Chromatograph	RL	Laboratory Reporting Limit
GC/MS	Gas Chromatography/Mass Spectrometry	RPD	Relative Percent Difference
		RRF	Relative Response Factors
GPC	Gel Permeation Chromatography	RT	Retention Time
H ₂	Hydrogen gas	SAP	sampling analysis plan
HCl	Hydrochloric Acid	SDG	Sample Delivery Group
HSD	halogen specific detector	SIM	Selected ion monitoring
ICAL	Initial Calibration	SOP	Standard Operating Procedures
ICB	Initial Calibration Blank	SPE	Solid Phase Extraction
ICP/MS	Inductively Coupled Plasma/ Mass Spectrometry	SVOC	Semi-Volatile Organic Compounds
		TCLP	Toxicity Characteristic Leaching Procedure
ICV	Initial Calibration Verification		
ICVL	Initial Calibration Verification Low	TIC	Tentatively Identified Compound
IPA	Isopropyl Alcohol	TKN	Total Kjeldahl Nitrogen
LC	Laboratory Control	TPH	Total Petroleum Hydrocarbon
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate	TPU	Total Propagated Uncertainty
		USEPA	U.S. Environmental Protection Agency
MBK	Method Blank Contamination	VOC	Volatile Organic Compounds
MDC	Minimum Detectable Concentration	WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Laboratory Qualifiers:
 - BA Relative percent difference out of control.
 - BU Analyzed out of holding time.
 - BV Sample received after holding time expired.
 - J,DX Results found between the EDL or MDL and laboratory RL.
 - LM MS and/or MSD above acceptance limits. See Blank Spike (LCS).
 - LN MS and/or MSD below acceptance limits. See Blank Spike (LCS).
 - LR LCS/LCSD recovery below method control limits.
 - LQ LCS/LCSD recovery above method control limits.
 - MB Analyte present in the method blank.
 - PI Primary and confirm results varied by > than 40% RPD.
 - q The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio; the measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.
 - U Result is less than the sample detection limit.
- Validation Notes:
 - Based on validation of the data, a qualifier was not required.
 - *1 Improper preservation of sample.
 - *3 Initial and/or continuing calibration recoveries were outside acceptable control limits.
 - *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.
 - *III Unusual problems found with the data that have been described in the validation report.
 - B Presumed contamination as indicated by the preparation (method) blank results.
 - C Calibration %RSD or %D was noncompliant. [or] Correlation coefficient is <0.995.
 - D The analysis with this flag should not be used because another more technically sound analysis is available.
 - DNQ The reported result is above the method detection limit but is less than the reporting limit.
 - E Duplicates showed poor agreement.

- F Presumed contamination as indicated by the field blank (FB) or equipment blank (EB) results.
- H Holding times were exceeded.
- I Internal standard performance was unsatisfactory. [or] ICP ICS results were unsatisfactory.
- L LCS/LCSD % recovery or RPD was not within control limits.
- L1 Laboratory control standard (LCS)/laboratory control standard duplicate (LCSD), relative percent difference (RPD) was outside the control limit.
- Q MS/MSD recovery or RPD was outside of control limits.
- R Calibration RRF was <0.05 or %R for calibration is not within control limits. [or] %R for calibration is not within control limits.
- RPD Pesticides and PCB Confirmation Column RPD Exceeded.
- S Surrogate recovery was outside QC limits. [or] The sequence or number of standards used for the calibration was incorrect.

- Validation Qualifiers:

- = No Qualifier.
- J Estimated value.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- NJ The analyte has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the sample.
- R As a validation qualifier, results are rejected; the presence or absence of analyte cannot be verified.
- U Result not detected.
- UJ The compound was not detected above the reported sample quantitation limit; however, the reported limit is estimated and may or may not represent the actual limit of quantitation.

References

1. Haley & Aldrich, Inc., 2015. Quality Assurance Project Field Plan for Santa Susana Field Laboratory Stormwater Sampling Program. December.
2. United States Environmental Protection Agency, 2020a. National Functional Guidelines for Inorganic Superfund Methods Data Review. EPA-542-R-20-006. November.
3. United States Environmental Protection Agency, 2020b. National Functional Guidelines for Organic Superfund Methods Data Review. EPA-540-R-20-005. November.