



Via Email to losangeles@waterboards.ca.gov

November 15, 2021

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

Subject: Third Quarter 2021 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 (Third Quarter 2021). 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 2015. The NPDES Permit covers the entire Santa Susana Site, which includes approximately 2,400 acres owned by Boeing, approximately 450 acres owned by the United States and administered by the National Aeronautics and Space Administration (NASA), and approximately 290 acres of Boeing's land for which the Department of Energy (DOE) has assumed responsibility for soil remediation.

Hard copies of this DMR are available to the public at the California State University Northridge Oviatt Library, the Simi Valley Public Library, and the Platt Branch of the Los Angeles Public Library. An electronic version of this DMR is located at: <a href="http://www.boeing.com/principles/environment/santa-susana/monitoring-reports.page">http://www.boeing.com/principles/environment/santa-susana/monitoring-reports.page</a>.

# **THIRD QUARTER 2021 DMR CONTENTS**

This DMR includes the following sections and appendices:

- **Discharge and Sample Collection Summary:** This section describes the number of rain events, the number of samples collected, sample dates, and sample locations during the Third Quarter 2021. Table I summarizes the Third Quarter 2021 sampling record by outfall or location, sample frequency, and sample type collected per the requirements of the NPDES Permit.
- Receiving Water Surveys: This section summarizes the receiving water surveys required by the NPDES Permit.
- Summary of Exceedances and/or Non-Compliance: This section summarizes the Third Quarter 2021 sample results that exceeded NPDES Permit Limits, Benchmarks, and Receiving Water Limits, and the potential causes thereof.
- Stormwater Treatment System at Outfall 011 Activities: This section summarizes the Third Quarter 2021 activities at the stormwater treatment system (SWTS) at Outfall 011.
- Stormwater Treatment System at Outfall 018 Activities: This section summarizes the Third Quarter 2021 activities at the SWTS at Outfall 018.



- Stormwater Pollution Prevention Plan/Best Management Practice Activities: This section presents the Santa Susana Site-Wide Stormwater Pollution Prevention Plan (SWPPP) and Best Management Practice (BMP)-related activities implemented in the Third Quarter 2021 as well as activities associated with NASA, DOE, the Stormwater Expert Panel (Expert Panel), NASA and Boeing BMP Monitoring-related activities, the Northern Drainage, the Outfall 001/002 BMP Compliance Report, and Other BMP Activities. Table II summarizes typical BMP-related activities that occur at outfalls every quarter. Table III summarizes specific BMP activities completed during the Third Quarter 2021 by location.
- **Figure 1** shows the stormwater collection and conveyance system, the Bell Creek Receiving Water sampling location (RSW-001, Outfall 002), and Santa Susana Site features; **Figure 2** shows the Arroyo Simi Receiving Water sampling location (RSW 002, Frontier Park) and upstream monitoring location.
- Appendix A summarizes the rainfall measured at the Santa Susana Site during the Third Quarter 2021.
- Appendix B tabulates waste shipments during the Third Quarter 2021.
- Appendix C presents chemical analytical results from the Third Quarter 2021 stormwater and/or receiving water sample discharge monitoring in tabular form by sampling locations, constituents evaluated (analytes), sample dates, and data validation qualifiers.
- **Appendix D** contains copies of the laboratory analytical reports, chain-of-custody forms, and data validation reports (if validation was performed).



## **DISCHARGE AND SAMPLE COLLECTION SUMMARY**

The Santa Susana Site measured 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 the Third Quarter 2021 (Appendix A). No discharge occurred at any of the outfalls; therefore, no samples were collected. There were no changes in the discharge as described in the NPDES Permit during the reporting period. The quarterly surface water sample was collected at the Arroyo Simi–Frontier Park location on 05 August 2021.

Table I summarizes the Third Quarter 2021 sampling record by outfall or location, sample frequency, and sample type collected per NPDES Permit requirements, and results are included in Appendix C.

**TABLE I: Sampling Record during the Third Quarter 2021** 

Date	Outfall/Location	Sample Frequency	Sample Type
8/5/2021	Arroyo Simi Receiving Water (RSW-002, Frontier Park)	Quarterly Surface Water	Grab

All analyses were conducted at analytical laboratories certified by the State Water Resources Control Board (SWRCB) for such analyses (i.e., all have current certification from the Environmental Laboratory Accreditation Program [ELAP] established by the California Environmental Laboratory Improvement Act) or have been approved by the SWRCB Executive Officer in accordance with current U.S. Environmental Protection Agency (EPA) guideline procedures or as specified in the NPDES Permit. Laboratory analytical reports, including validation reports and notes (if validation was performed), are included in Appendix D. Attachment H of the NPDES Permit presents the SWRCB's minimum levels laboratories are expected to achieve for reporting and determining compliance with NPDES Permit limits. The analytical laboratory achieved these minimum levels in the Third Quarter 2021 except when reporting limits were above the minimum levels (generally because of matrix interference). In cases where the NPDES Permit limit was less than the reporting limit and minimum level or there was no minimum level specified in the NPDES Permit, the reporting limit was used to determine compliance.

#### THIRD QUARTER 2021 RECEIVING WATER SURVEYS

The receiving water monitoring program required by the NPDES Permit includes surveys of Bell Creek, Dayton Canyon Creek, and Arroyo Simi. Observations are made only during discharge from Outfalls 002, 008, and 009, respectively, and at most monthly during periods of multiple flow events. During Third Quarter 2021, Outfalls 002, 008, and 009 did not discharge, thus, no receiving water surveys were conducted.

# THIRD QUARTER 2021 SUMMARY OF EXCEEDANCES AND/OR NON-COMPLIANCE

No surface water discharges occurred from the Santa Susana Site during Third Quarter 2021. As such, there are no onsite 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 TREATMENT SYSTEM AT OUTFALL 011 ACTIVITIES

The SWTS located near R-1 Pond (SWTS 011) is situated to discharge through Outfall 011. Maintenance items completed in the Third Quarter 2021 are as follows:





- Fabricated and installed a rain gutter over the programmable logic control cabinet.
- Fabricated new suction hoses for the Weir Tank.
- Installed air/vacuum release valves for Supernatant Pumps (P-109 and P-110)

SWTS 011 did not operate in the Third Quarter 2021.

# STORMWATER TREATMENT SYSTEM AT OUTFALL 018 ACTIVITIES

The SWTS located at Silvernale Pond (SWTS 018) discharges through Outfall 018. Maintenance items completed in the Third Quarter 2021 are as follows:

- Completed installing the new signage identifying the tanks and the different processes.
- Removed the hydrochloric acid HCl tubing from ChemBoxes 1, 2, 3, and 4. Installed new chemical tubing to ChemBoxes 1 and 3. Installed a new secondary containment line and new chemical tubing to ChemBox 2.
- Installed a pressure gauge on the water line entering the system.
- Installed a blind flange for the old HCl injection point in ChemBox 4.
- Scraped old paint from the inlet hopper of the Plate Settler and repainted.
- Installed a pressure regulator on the water line for the polymer skid.
- Installed an isolation valve for the main system water.
- Replaced the cracked the Alum injection flange in ChemBox 2.
- Removed the iron valves on the GAC and installed a stainless-steel valving system.
- Upgraded the size of the air/vacuum release for Intake Pump P-102.

SWTS 018 did not operate in the Third Quarter 2021.



# STORMWATER POLLUTION PREVENTION PLAN/BEST MANAGEMENT PRACTICE ACTIVITIES

Boeing implemented significant BMP activities in compliance with the Site-wide SWPPP (Haley & Aldrich, 2020) to assist in improving stormwater quality and compliance at the Santa Susana Site. Table II summarizes typical BMP-related activities that occur at outfalls every quarter.

**TABLE II: Routine Quarterly Outfall BMP Activities** 

DOAD A strategy						Out	falls					
BMP Activities	001	002	003	004	005	006	007	800	009	010	011	018
Conducted erosion and 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.	X	Х	Х	X	X	X	Х	Х	Х	Х	Х	Х
Inspected the flume for sediment/debris.	x	х	x	х	N/A	×	N/A	х	х	х	N/A	х
Inspected the weir for sediment/debris.	N/A	N/A	N/A	N/A	Х	N/A						
Cleaned the sample box of sediment and debris, checked for the presence of animals, and performed weed abatement as needed.	x	x	х	x	х	x	x	х	N/A	х	х	х
Checked the flow meter control box for the presence of debris and/or animals.	х	х	х	х	N/A	х	N/A	х	Х	Х	Х	х
Cleaned the outfall area of sediment and debris and performed weed abatement as needed.	х	х	х	х	х	х	х	х	х	х	х	х
Reset the flow meter and replaced the tape monthly.	х	х	х	х	N/A	х	N/A	х	х	х	х	х
Conducted maintenance inspections of the stormwater conveyance system.	N/A	N/A	х	х	х	х	х	N/A	N/A	х	х	х
Conducted maintenance inspections of the stormwater retention system.	N/A	N/A	х	х	х	х	х	N/A	N/A	Х	Х	х
Conducted maintenance inspections of the flow-through structure.	N/A	N/A	Х	х	N/A	х	N/A	N/A	N/A	Х	Х	N/A

## Notes:

X = BMP activity is applicable to the Outfall and was completed in Third Quarter 2021.

N/A = BMP activity is not applicable to the Outfall because the Outfall does not have a flume, sample box, flow meter, retention system or flow-through structure, or is not part of the stormwater conveyance system.



Table III summarizes the additional activities completed during the Third Quarter 2021 by outfall or BMP location.

**TABLE III: Additional Third Quarter 2021 BMP Activities** 

Outfall, Watershed or BMP Location	BMP Activities During Third Quarter 2021
001, 002, 003, 004, 006, 008, 009, 010, 011, and 018	- Calibrated flow meters and Autosamplers.
002	<ul> <li>Upgraded and repaired the electrical lines from the solar panels for the sampling equipment.</li> </ul>
004	<ul> <li>Replaced the float switches for the conveyance pumps.</li> <li>Upgraded the electrical lines from the solar panels for the sampling equipment.</li> <li>Repaired the media bed manifold.</li> </ul>
005	<ul> <li>Up righted and secured the air/vacuum release on the conveyance line.</li> <li>Replaced the float switches for the conveyance pump.</li> </ul>
006	<ul> <li>Installed new float switches for the submersible pumps.</li> <li>Upgraded and repaired the electrical lines from the solar panels for the sampling equipment.</li> </ul>
007	- Replaced the float switches for the conveyance pump.
008	<ul> <li>Relocated the solar panel for the flow meter, attaching it to the pole for the flow meter.</li> <li>Upgraded and repaired the electrical lines from the solar panels to the sampling equipment.</li> </ul>
011	<ul> <li>Relocated the solar panel for the flow meter, attaching it to the flow meter cabinet.</li> <li>Installed a dedicated conduit for the bubbler tube for the flow meter.</li> <li>Increased the height of the cement flume wall, to divert rain into Outfall 011 basin.</li> <li>Replaced and repositioned the float switches for the Charles King and conveyance pump.</li> </ul>

In addition to Site-wide SWPPP-related activities, specific BMP projects included: NASA, DOE, Expert Panel, Northern Drainage, and Outfall 001/002 BMP Compliance Report. These are discussed in more detail below.

## **NASA-Related Activities**

During the Third Quarter 2021, NASA filed a SWPPP for demolition activities at the Bravo area (NASA, 2021). NASA maintained fiber rolls as perimeter and linear sediment controls, maintained silt fencing, and gravel/riprap in areas within in the Bravo area in preparation for demolition activities.

#### **DOE-Related Activities**

Demolition BMPs and stormwater activities covered by DOE's Construction SWPPPs for the Hazardous Waste Management Facility (HWMF), Radioactive Materials Handling Facility (RMHF), and other facilities within Area IV were inspected in accordance with the CGP (DOE, 2020a, 2020b, 2020c).

# **Expert Panel-Related Activities**

The BMP activities discussed below were performed, commenced, or completed during the Third Quarter 2021 in coordination with the Expert Panel.



# **Culvert Modifications**

Twelve culvert modifications (CM) were constructed in 2009 at various locations at or along the main road adjacent to the Northern Drainage. The CMs were designed to treat stormwater from roads and/or the surrounding hillsides. The Third Quarter 2021 activities included:

- Conducted BMP inspections, including the culvert inlets and riprap check dams;
- Removed deteriorated silt fence material from the weir boards and installed high density polyethylene (HDPE) liner; and
- Removed spent wattles at CM-9.

# NASA Expendable Launch Vehicle (ELV) Area BMPs

BMPs and drainage improvements were installed between June and October 2013 at the NASA ELV to improve the quality of stormwater from the ELV area. After being pumped from the cistern at the bottom of the swale to the ELV system, 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. In the Second Quarter 2016, a sandbag berm was placed across the ELV asphalt swale to divert stormwater toward CM-1 for treatment instead of directly discharging to the Northern Drainage. A generator was installed at the ELV system during the Third Quarter 2019. The Third Quarter 2021 activities included BMP inspections.

#### Well 13 Road

Sandbag berms located near the culvert inlet and downgradient of the hydroseeded area were reinforced and increased in height during Fourth Quarter 2017. The Third Quarter 2021 activities included BMP inspections.

# B-1 Area

The B-1 Area BMPs include:

- A sedimentation basin, constructed in 2012;
- A media filter, constructed in 2012; and
- An upper parking lot media filter, constructed in 2017.

The Third Quarter 2021 activities included continued BMP inspections.

# <u>Upper Parking Lot Media Filter</u>

Construction of a media filter at the northeast corner of the upper parking lot was completed during the Second Quarter 2017. This BMP included a new media filter similar in style to the B-1 media filter and designed to treat runoff from parts of the parking lot as well as parts of the adjacent entrance road. The Third Quarter 2021 activities included BMP inspections.



## Former Building 1436 Detention Bioswales

Two detention bioswales were constructed at the former Building 1436 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 stormwater from the adjacent parking lot and from approximately 13.9 acres of drainage area east and upgradient prior to releasing the stormwater to the former Instrument and Equipment Laboratories (IEL) storm drain, where flow is diverted to the lower lot biofilter for treatment. The Third Quarter 2021 activities included conducting BMP inspections.

## Lower Lot Biofilter

The lower lot biofilter is a stormwater treatment BMP designed and built to capture, convey, and treat stormwater from the lower 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.

The Third Quarter 2021 activities included inspections to verify that the sedimentation basin and biofilter were free of sediment and debris, checks of the cistern area and pump, weed abatement as needed, in addition to inspections of surrounding BMPs.

No stormwater was pumped from the cistern to the sedimentation basin during the Third Quarter 2021.

#### Administration Area Inlet Filters

Four storm drain inlets were modified with either drop inlet filters or weighted wattles filled with media mixtures during the Second Quarter 2017. At the inlet closest to the lower lot, a storm drain filter sock was placed upstream of the inlet to increase the settling of solids. The Third Quarter 2021 activities included BMP inspections.

## Former Shooting Range

BMPs at the Former Shooting Range consist of:

- Slope stabilization measures (i.e., vegetation planting areas);
- Riprap berms along the Northern Drainage;
- A culvert maintenance media filter;
- Fiber rolls;
- Sandbag berm;
- Silt fencing;
- Water bar across the trail;
- Three check structures on the Northern Drainage Trail;
- Sandbags with fiber rolls;
- A check structure at the dissipater; and
- Hydroseeding.

The entire area continues to benefit from the growth of dense vegetation that shields lead shot from direct contact with or dislodging during precipitation events and prevents soil erosion and mobility of the shot to downstream areas.



At the request of the Expert Panel, the Sage Ranch side of the Former Shooting Range was inspected to confirm that BMPs (i.e., fiber rolls, silt fence, etc.) control and/or treat stormwater runoff from that side of the Former Shooting Range to the Northern Drainage. The Third Quarter 2021 activities included BMP inspections.

#### **Northern Drainage BMPs**

Boeing restored the Northern Drainage (Outfall 009) following cleanup activities performed under the Department of Toxic Substance Control oversight and in accordance with the requirements of the Regional Board's Cleanup and Abatement Order No. R4-2007-0054 (Regional Water Quality Control Board, 2007). The restoration and mitigation activities proposed in the Northern Drainage Restoration, Mitigation, and Monitoring Plan (RMMP)¹ were implemented in 2012. In accordance with the RMMP, regular maintenance, monitoring, and reporting were implemented in the Northern Drainage from 2012 through the Third Quarter 2017 for the stream's plant biology and geomorphology. The successful restoration and mitigation of the Northern Drainage according to the success criteria of the RMMP were documented in the fifth and final Annual Mitigation Monitoring Report (Haley & Aldrich, 2017). Based on the success of the project, Boeing requested that the Regional Board provide written notice stating that Boeing had complied with all terms of the Cleanup and Abatement Order and Boeing's obligations under the Order would therefore be terminated. No RMMP-related inspections of Northern Drainage BMPs were performed during Third Quarter 2021. Boeing will continue to inspect the Northern Drainage BMPs annually and maintain them on an as-needed basis. The Third Quarter 2021 activities included BMP inspections.

# **Outfall 001/002 BMP Compliance Report Related Activities**

Boeing and the Expert Panel will continue to monitor and evaluate the effectiveness of BMPs within the watersheds of Outfall 001 and Outfall 002. Recommendations for these watersheds are provided in the 2020 Expert Panel Annual Report (Geosyntec and the Expert Panel, 2020).

#### Other BMP Activities

BMP observations and maintenance inspections were conducted in conformance with the Site-wide SWPPP (Haley & Aldrich, 2020) at and around the former test stands Alfa and Bravo and former Advanced Propulsion Test Facility.

# **CONCLUSIONS**

Boeing 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 by implementing distributed, sustainable erosion control/restoration measures. The Expert Panel is reviewing the data collected this year and will make BMP and monitoring recommendations that will be communicated in the Expert Panel's 2021 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.

<sup>&</sup>lt;sup>1</sup> Available at: http://www.boeing.com/principles/environment/santa-susana/technical-reports.page



## **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 2021 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

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

Figure 2 – Arroyo Simi Receiving Water (RSW-002, Frontier Park) Sampling Location and Upstream Monitoring Point

Appendix A – Third Quarter 2021 Daily Rainfall Summary

Appendix B – Third Quarter 2021 Waste Shipment Summary Table

Appendix C – Third Quarter 2021 Discharge Monitoring Data Summary Tables

Appendix D – Third Quarter 2021 Analytical Laboratory Reports, Chain of Custody Forms, and Validation Reports

c: Los Angeles Regional Water Quality Control Board; Attn: Mr. Duong H. Trinh

Los Angeles Regional Water Quality Control Board; Attn: Ms. Kelly Bronwyn

California Department of Toxic Substances Control; Attn: Mr. Mark Malinowski

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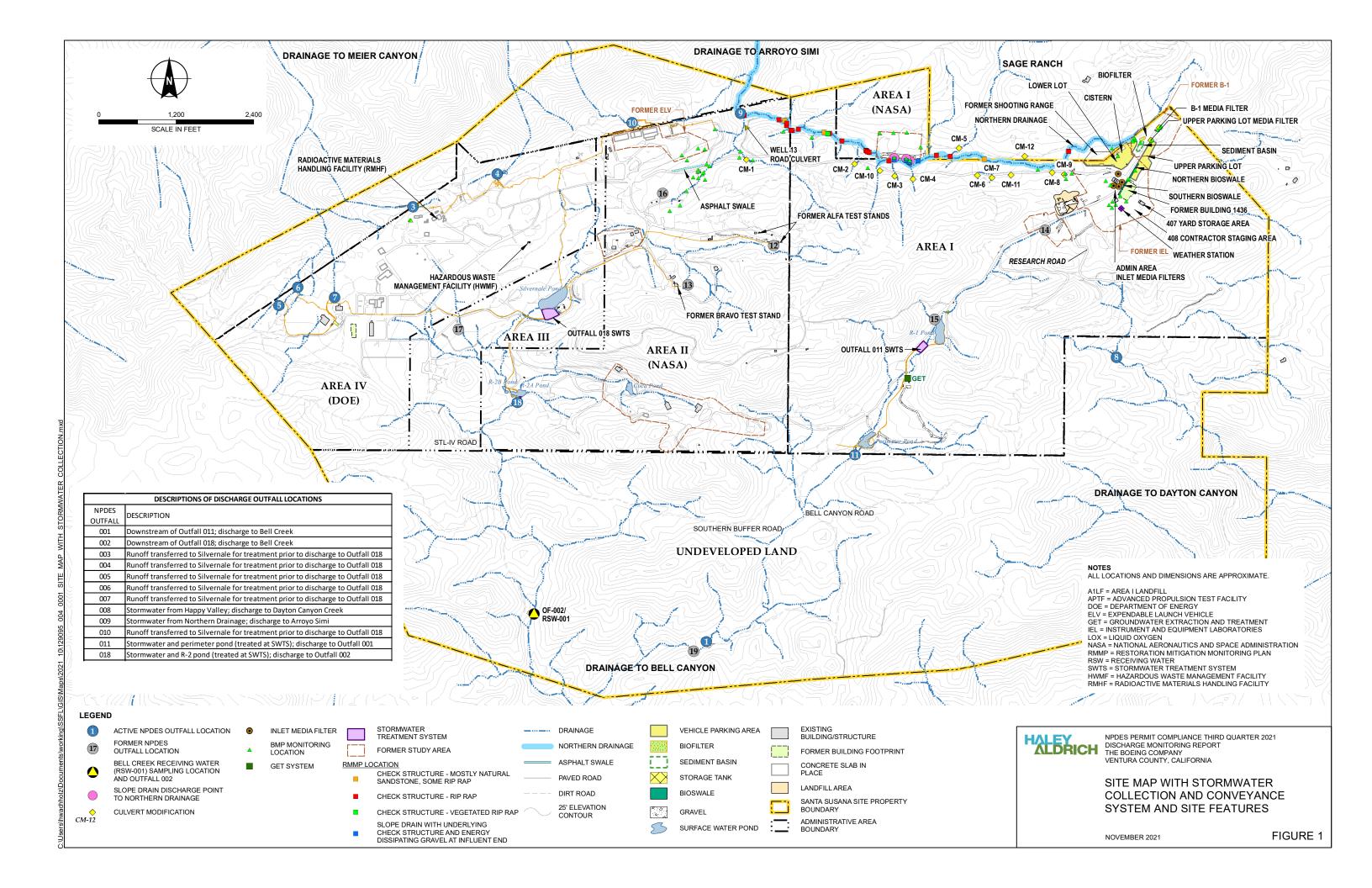
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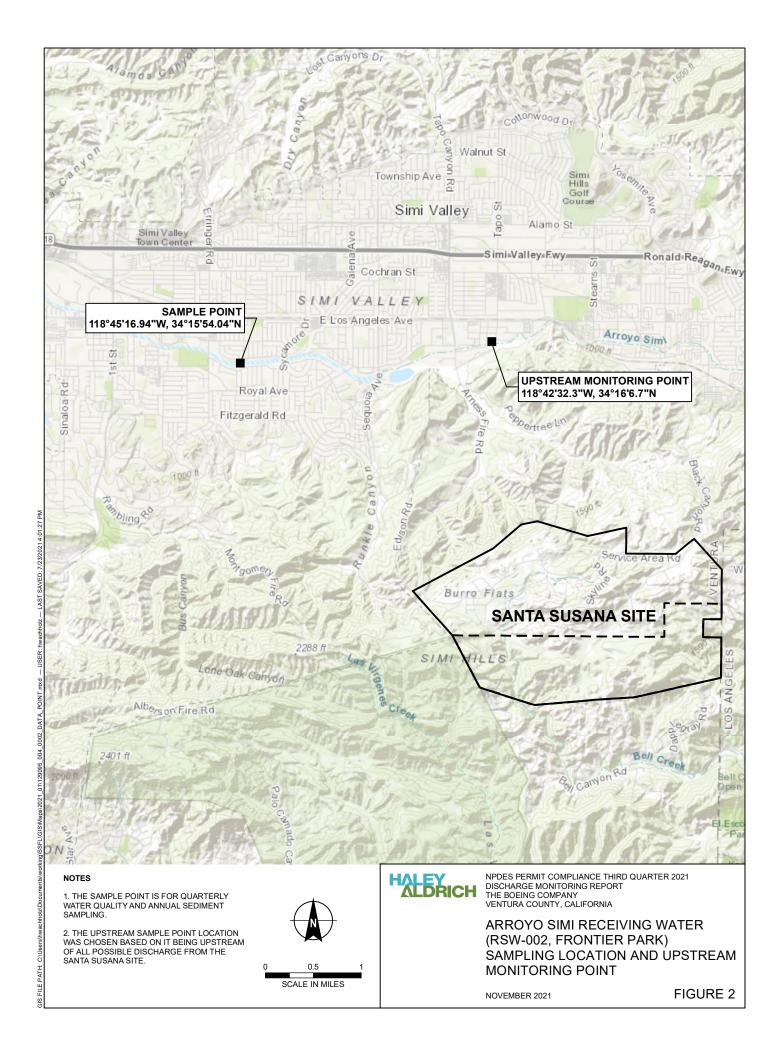


## **REFERENCES**

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- U.S. Department of Energy, 2020a. Stormwater Pollution Prevention Plan for HWMF Phase 1
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- 3. U.S. Department of Energy, 2020b. Stormwater Pollution Prevention Plan for RMHF Phase 1 Decommissioning and Demolition U.S. Department of Energy, Energy Technology Engineering Center Area IV, Santa Susana Field Laboratory, Ventura County, California, July.
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- 6. Haley & Aldrich, Inc., 2017. Northern Drainage 2017 Annual Report, Clean Water Act Section 401 Water Quality Certification, File No. 12-001, Cleanup and Abatement Order No. R4-2007-0054, Streambed Alteration Agreement No. 1600-2003-5052-R5, Streambed Alteration Agreement No. 1600-2015-0079-R5, U.S. Army Corps of Engineers SPL-2012-00015, Santa Susana Field Laboratory, Ventura County, California. 13 December.
- 7. Haley & Aldrich, Inc., 2020. Stormwater Pollution and Prevention Plan (Version 7 for Compliance with 2015 NPDES Permit). 7 December.
- 8. NASA, 2021. Stormwater Pollution and Prevention Plan for the Pacific Region MATOC FY21 Facilities Reduction Program at the NASA Santa Susana Field Laboratory (Phase 5 Bravo Test Area Demolition), Ventura County, California. July.







# **APPENDIX A**

Third Quarter 2021 Rainfall Data Summary

# **APPENDIX A**

# **TABLE OF CONTENTS**

Table A – Daily Rainfall Summary

# TABLE A DAILY RAINFALL SUMMARY

# THE BOEING COMPANY NPDES PERMIT CA0001309

Station: AREA 1 Parameter: Inches of Rain

Parameter: Inches of Rair Month/Year: July 2021

#### HOUR OF THE DAY, PACIFIC STANDARD TIME

i															NDAKL											
	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
	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
D	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
Α	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
Υ	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
0	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
F	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
Т	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
Н	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
Ε	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
M	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
0	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
N	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
Т	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
Н	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

# TABLE A DAILY RAINFALL SUMMARY

# THE BOEING COMPANY NPDES PERMIT CA0001309

Parameter: Inches of Rain Month/Year: August 2021

Station: AREA 1

#### HOUR OF THE DAY, PACIFIC STANDARD TIME

															NDAKL											
	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
	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
D	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
Α	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
Υ	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
0	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
F	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
Т	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
Н	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
Ε	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	0.01	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04
M	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
0	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
N	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
Т	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
Н	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

# TABLE A DAILY RAINFALL SUMMARY

# THE BOEING COMPANY NPDES PERMIT CA0001309

Parameter: Inches of Rain Month/Year: September 2021

Station: AREA 1

#### HOUR OF THE DAY, PACIFIC STANDARD TIME

The color	1				_			_	_							NDARD			40		- 10	40					
The color   The			0	1					6	•		_															
T			1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
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THE HE PROPERTY SET IN THE TRANSPORT OF	_																										0.00
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- 1 <b>30</b>   0.001		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

# **APPENDIX B**

**Third Quarter 2021 Waste Shipment Summary Table** 

# **APPENDIX B**

# **TABLE OF CONTENTS**

Table B – Waste Shipment Summary Table

# TABLE B WASTE SHIPMENT SUMMARY TABLE

#### THIRD QUARTER 2021 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

TYPE OF WASTE	MATRIX	QTY.	UNITS	TRANSPORTER 1	TRANSPORTER 2	DESTINATION
Hazardous Waste	Liquid	4800	G	Ecology Control Industries	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Solid	150	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Clean Harbors Environmental Services, Inc.	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Hazardous Waste	Liquid	14,400	G	Ecology Control Industries	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Liquid	14,400	G	Ecology Control Industries	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Liquid	9,600	G	Ecology Control Industries	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Liquid	2,500	G	Ecology Control Industries	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Solid	19	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Non RCRA Hazardous Waste	Solid	69	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Non RCRA Hazardous Waste	Solid	5	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Hazardous Waste	Liquid	38	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Action Resources	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Hazardous Waste	Solid	240	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Action Resources	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Hazardous Waste	Liquid	3	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Universal Waste - Electronic Devices	Solid	26	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste	Liquid	1,355	G	Patriot Environmental Services	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Solid	3,000	Р	Patriot Environmental Services	n/a	US Ecology US Highway 95, 11 Miles South of Beatty Beatty, NV 89003
Hazardous Waste	Liquid	9,600	G	Ecology Control Industries	n/a	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058

# TABLE B WASTE SHIPMENT SUMMARY TABLE

# THIRD QUARTER 2021 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

TYPE OF WASTE	MATRIX	QTY.	UNITS	TRANSPORTER 1	TRANSPORTER 2	DESTINATION
Hazardous Waste	Solid	15	Y	Ecology Control Industries	n/a	US Ecology US Highway 95, 11 Miles South of Beatty Beatty, NV 89003
Hazardous Waste	Liquid	5	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Hazardous Waste	Solid	17	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Non-RCRA Hazardous Waste	Solid	33	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Hazardous Waste	Solid	7	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Hazardous Waste	Solid	70	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 69145
Hazardous Waste	Liquid	3	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Environmental Services, Inc. 500 Indepedence Parkway South La Porte, TX 77571
Hazardous Waste	Solid	2,358	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Environmental Services, Inc. 500 Indepedence Parkway South La Porte, TX 77571
Hazardous Waste	Liquid	126	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Environmental Services, Inc. 1737 East Denni Street Wilmington, CA 90744
Hazardous Waste	Liquid	4,374	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Environmental Services, Inc. 1737 East Denni Street Wilmington, CA 90744
Universal Waste - Batteries	Solid	30	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Clean Harbors Wilmington LLC 1737 East Denni Street Wilmington, CA 90744
Non Hazardous, Non D.O.T. Regulated Material	Solid	549	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Clean Harbors Environmental Services, Inc.	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Non Hazardous, Non D.O.T. Regulated Waste	Liquid	18	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Clean Harbors Environmental Services, Inc.	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Non Hazardous, Non D.O.T. Regulated Material	Solid	3	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	Clean Harbors Environmental Services, Inc.	Clean Harbors Grassy Mountain LLC 3 Miles East 7 Miles North of Knolls Grantsville, UT 84029
Hazardous Waste	Liquid	14,400	G	Ecology Control Industries	na	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Hazardous Waste	Liquid	7,000	G	Ecology Control Industries	na	US Ecology Vernon 5375 South Boyle Avenue Los Angeles, CA 90058
Non Hazardous, Non D.O.T. Regulated Waste	Solid	11,040	Р	Clean Harbors Environmental Services, Inc. 42 Longwater Drive Norwell, MA 02061	n/a	Waste Management - Antelope Valley LF 1200 W. City Ranch Road Palmdale, CA 93551
Non D.O.T. Regulated Radioactive Material, Asbestos	Solid	82,940	Р	Hitman Transport Services, Inc. 1560 Bear Creek Road Oak Ridge, TN 37830	n/a	Energy Solutions, LLC Clive Disposal Site, I-80 Exit 49 Clive, UT 84029

# TABLE B WASTE SHIPMENT SUMMARY TABLE

# THIRD QUARTER 2021 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

TYPE OF WASTE	MATRIX	QTY.	UNITS	TRANSPORTER 1	TRANSPORTER 2	DESTINATION
Non D.O.T. Regulated Radioactive Material	Solid	852,300	Р	RUST and Sons Trucking 15353 Olde Hwy 80 El Cajon, Ca 92091	n/a	Energy Solutions, LLC Clive Disposal Site, I-80 Exit 49 Clive, UT 84029

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

Y = Yards

# APPENDIX C Third Quarter 2021 Discharge Monitoring Data Summary Tables

# **APPENDIX C**

# **TABLE OF CONTENTS**

Reporting Summary Notes

Arroyo Simi - Discharge Monitoring Data Summary Table

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

- 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) toxic equivalents (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 detected but not quantified (DNQ), as specified on page 26 of the NPDES permit (Water Board, 2015).
- 2. Temperature, total residual chlorine (TRC), dissolved oxygen (DO), and pH are measured in the field and are not validated.
- 3. pH and temperature are identified on the table as daily maximum discharge limits. The NPDES permit limit has an instantaneous minimum (6.5) and maximum (8.5) for pH and an instantaneous maximum of 86°F for temperature.
- 4. Exceedances are defined on page 6 of the NPDES permit as constituents in excess of daily maximum benchmark limits, daily maximum permit limits, or receiving water limits. Analytical concentrations or calculations to determine compliance to the NPDES permit are compared to the same number of significant figures as the daily maximum benchmark limits, daily maximum permit limits, or receiving water limits.
- 5. Priority pollutants, sampled once every five years, at Arroyo Simi Receiving Water sampling location (RSW-002, Frontier Park) were analyzed during the First Quarter 2018.
- 6. Dissolved metals are filtered by the laboratory and reported as "Metal, dissolved". Total metals are not filtered by the laboratory and reported as "Metal".
- 7. 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 waterlimit.
<(value)	Analyte not detected at a concentration greater than or equal to the detection limit (DL), method detection limit (MDL), or laboratory reporting limit (RL); see laboratory report for specific detail.
>(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-2 of attachment A of the NPDES permit.
*1	Improper preservation of sample.

*2	The inductively coupled plasma (ICP)/matrix spike (MS) parts per billion (ppb) check standard was recovered above the control limit; therefore, the constituent detected was qualified as estimated (J).
*3	Initial and or continuing calibration recoveries were outside acceptable control limits.
*5	Blank spike/blank spike duplicate relative percent difference was outside the control limit.
*10	Value was estimated detect or estimated non-detect (J, UJ) due to deficiencies in quantitation of the constituent including constituents reported by the laboratory as estimated maximum possible concentration (EMPC) values.
*11	No calibration was performed for this compound; result is reported as a tentatively identified compound (TIC).
*   *	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 NPDES permit to be sampled and analyzed over the reporting period (annual, semiannual, etc.).
Avg	Average.
В	Laboratory method blank contamination.
ВА	Relative percent difference out of control.
BEF	Bioaccumulation equivalency factor.
BU	Analyzed out of holding time.
BV	Sample received after holding time expired.
С	Calibration percent relative standard deviation (%RSD) or percent difference (%D) were noncompliant.
CaCO3	Calcium carbonate
Chromium VI	Hexavalent chromium
Comp	Composite sample type.
C5	Calibration verification percent recovery (%R) was outside method control limits.
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.
%D	Percent difference between the initial and continuing calibration relative response factors.
Deg C	Degrees Celsius.
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).
Е	E in validation qualifier indicates that duplicates show poor agreement.

EB	Equipment blank.
EMPC	Estimated maximum possible concentration.
F	The analyte was detected in an associated field blank (FB) or equipment blank (EB) as well as in the sample.
FB	Field blank.
F1	Matrix spike (MS) and/or matrix spike duplicate (MSD) recovery is outside acceptance limits.
ft/sec	Feet per second.
G	Gallons.
gpd	Gallons per day.
Н	Holding time was exceeded.
Hardness	Equivalent of calcium carbonate (CaCO3).
Нр	Hepta.
Нх	Hexa.
ICP	Interference check solution results were 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.
J, DX	Estimated value, value < lowest standard method quantitation limit (MQL), but > than method detection limit (MDL).
К	The sample dilution's set-up did not meet the oxygen depletion criteria of at least 2 milligrams per liter (mg/L); therefore, the reported result is an estimated value only.
L	Laboratory control sample percent recovery (%R) was outside control limits.
L1	Laboratory control standard (LCS)/laboratory control standard duplicate (LCSD), relative percent difference (RPD) was outside the control limit.
L2	The laboratory control sample percent recovery (%R) was below the method control limits.
LBS/DAY	Pounds per day.
LCS	Laboratory control standard.
LCSD	Laboratory control standard duplicate.
LQ	Laboratory control standard (LCS)/ laboratory control standard duplicate (LCSD) recovery above method control limits.
M1	Matrix spike (MS) and/or matrix spike duplicate (MSD) were above the acceptance limits due to sample matrix interference.
M2	The matrix spike (MS) and/or matrix spike duplicate (MSD) were below the acceptance limits due to sample matrix interference.
Max	Maximum.
МВ	Analyte present in the method blank.
MDA/MDC	Minimum detectable activity/minimum detectable concentration.

Meas Measure sample type.  MFL Million fibers per liter.  MGD Million gallons per day.  MHA Due to high level of analyte in the sample, the matrix spike (MS)/mat duplicate (MSD) calculation does not provide useful spike recovery in 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	
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NA Net emiliable, no NDDEO a serit limit a tablish at facility and the series	
NA Not applicable; no NPDES permit limit established for the constituent or analyte not required per receiving water monitoring requirements.	t and/or outfall
ND Analyte not detected.	
NJ  The analyte has been "tentatively identified" or "presumptively" as pr associated numerical value is the estimated concentration in the san	nple.
NM Not measured or determined or minimum detectable activities (MDA: calculated as there is no statistical method for combining MDAs.	s) are not
NPDES National Pollutant Discharge Elimination System.	
NR Not reported by laboratory by the deadline of this report.	
NTU Nephelometric turbidity unit.	
OCDD Octa CDD.	
OCDF Octa CDF.	
P Pounds.	
ppb Parts per billion.	
pCi/L PicoCuries per liter.	
Pe Penta.	
q The reported result is the estimated maximum possible concentration analyte, quantitated using the theoretical ion ratio; the measured ion meet qualitative identification criteria and indicates a possible interfer	ratio does not
Q Matrix spike (MS) recovery outside of control limits.	
Q1 Matrix spike (MS)/matrix spike duplicate (MSD) relative percent diffe was outside the control limit.	rence (RPD)
R As a validation qualifier, results are rejected; the presence or absence cannot be verified.	ce of analyte
(R) Percent recovery (%R) for calibration not within control limits.	
RL Laboratory reporting limit.	

RL-1	Reporting limit raised due to sample matrix effects.
RPD	Relative percent difference.
%R	Percent recovery.
%RSD	Percent relative standard deviation.
% Normal/Alive	Percent normal and alive.
% Survival	Percent survival.
S	Surrogate recovery was outside control limits.
s.u.	Standard unit.
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin.
TCDF	2,3,7,8-tetrachlorodibenzo-p-furan.
TEQ	Toxic equivalent.
TIC	Tentatively identified compound
TIE	Toxicity identification evaluation
TOC	Total organic carbon
Т	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.
w/out	Without.
٨	Analysis not completed due to hold time exceedance or insufficient sample volume.
#	Per Order No. R4-2015-0033, page 16, Footnote 1. The effluent limitations for total suspended solids and settleable solids are not applicable for discharges during wet weather. During wet weather flow, a discharge event is greater than 0.1 inch of rainfall in a 24-hour period. No more than one sample per week need be obtained during extended periods of rainfall or the discharge of collected stormwater. A storm event must be preceded by at least 72 hours of dry weather.
(1)	Based on the NPDES permit, table E-3a footnote 2, receiving water samples for pH, hardness, and priority pollutants must be collected on the same day as effluent samples.
(2)	Additional sample, not required by the NPDES permit.
(4.0)3.1/-	Represents (dry weather limit) wet weather limit / monthly average limit.
(3)	Secondary maximum contaminant level.

(4) The drinking water maximum contaminant level of 3.00E-05 µg/L, is for the dioxin congener 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD). TCDD Toxic Equivalent (TEG) without detected but not quantified (DNQ) values is the sum of theproducts of the detected dioxin congener concentration multiplied by that congener's toxic Equivalency factor (TEF) and bioaccumulation equivalency factor (BEF). There are 17 dioxin congeners.  (a) Based on Order No. R4-2015-0033, page 17, footnote 7, sampling event is adry discharge and the NPDES Permit Limit for cadmium is 4.0 µg/L and 3.93 lbs/day at OF001,002,011,018 and 0.24 lbs/day at OF008.  (b) Based on Order No. R4-2015-0033, page 17, footnote 7, sampling event is a wet discharge and the NPDES Permit Limit for cadmium is 3.1 µg/L and 4.91 lbs/day at OF001,002,011,018 and 3.05 lbs/day at OF008.  (c) Based on Order No. R4-2015-0033, page 16, footnote 1, sampled during wet weather flow. The effluent limitations for total suspended solids and/or settleable solids are not applicable for discharges during wet weather.  (d) Based on Order No. R4-2015-0033, page 16, footnote 1, sampled during dry weather flow. The effluent limitations for total suspended solids and/or settleable solids are applicable for discharges during dry weather.  (e) Based on Order No. R4-2015-0033, page 17, footnote 8, sampling event is adry discharge and the NPDES Permit Limit for selenium is 5 µg/L and 4.91 lbs/day.  (f) Based on Order No. R4-2015-0033, page 17, footnote 8, sampling event is a wet discharge and the NPDES Permit Limit for selenium is 5 µg/L and 8.06 lbs/day.  (g) Reserved.  (h) Total Ammonia is reported in wet weight units milligrams per kilogram (mg/kg).  (i) 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).  (g) Analyte does not have a receiving water limit for Bell Creek Receiving Water (RSW-001, OF002).  (k) Reserved.  (h) When field staff arrived onsite to collect the c		
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units in % dry weight, but data is provided in dry unit milligrams per kilogram (mg/kg).  (j) Analyte does not have a receiving water limit for Bell Creek Receiving Water (RSW-001, OF002).  (k) Reserved.  (l) When field staff arrived onsite to collect the composite sample they discovered that the autosampler had malfunctioned and had not collected "sips." Field staff repaired the autosampler, reset it, determined it was functioning properly, then returned the next day to collect the composite sample.  (m) The composite sample was collected as a grab sample from the sample box due to insufficient flow.  (n) The grab sample was collected at the first opportunity given the short duration and low-flow at this Outfall.  (o) Unsafe conditions all day prevented access to the Outfall.  (p) Various annual constituents were analyzed by laboratory due to field and laboratory error.	(h)	Total Ammonia is reported in wet weight units milligrams per kilogram (mg/kg).
(RSW-001, OF002).  (k) Reserved.  (l) When field staff arrived onsite to collect the composite sample they discovered that the autosampler had malfunctioned and had not collected "sips." Field staff repaired the autosampler, reset it, determined it was functioning properly, then returned the next day to collect the composite sample.  (m) The composite sample was collected as a grab sample from the sample box due to insufficient flow.  (n) The grab sample was collected at the first opportunity given the short duration and low-flow at this Outfall.  (o) Unsafe conditions all day prevented access to the Outfall.  (p) Various annual constituents were analyzed by laboratory due to field and laboratory error.	(i)	units in % dry weight, but data is provided in dry unit milligrams per kilogram
(I) When field staff arrived onsite to collect the composite sample they discovered that the autosampler had malfunctioned and had not collected "sips." Field staff repaired the autosampler, reset it, determined it was functioning properly, then returned the next day to collect the composite sample.  (m) The composite sample was collected as a grab sample from the sample box due to insufficient flow.  (n) The grab sample was collected at the first opportunity given the short duration and low-flow at this Outfall.  (o) Unsafe conditions all day prevented access to the Outfall.  (p) Various annual constituents were analyzed by laboratory due to field and laboratory error.	(j)	
that the autosampler had malfunctioned and had not collected "sips." Field staff repaired the autosampler, reset it, determined it was functioning properly, then returned the next day to collect the composite sample.  (m) The composite sample was collected as a grab sample from the sample box due to insufficient flow.  (n) The grab sample was collected at the first opportunity given the short duration and low-flow at this Outfall.  (o) Unsafe conditions all day prevented access to the Outfall.  (p) Various annual constituents were analyzed by laboratory due to field and laboratory error.	(k)	Reserved.
to insufficient flow.  (n) The grab sample was collected at the first opportunity given the short duration and low-flow at this Outfall.  (o) Unsafe conditions all day prevented access to the Outfall.  (p) Various annual constituents were analyzed by laboratory due to field and laboratory error.	(1)	that the autosampler had malfunctioned and had not collected "sips." Field staff repaired the autosampler, reset it, determined it was functioning properly, then returned the next day to collect the composite sample.
low-flow at this Outfall.  (o) Unsafe conditions all day prevented access to the Outfall.  (p) Various annual constituents were analyzed by laboratory due to field and laboratory error.	(m)	to insufficient flow.
(p) Various annual constituents were analyzed by laboratory due to field and laboratory error.		low-flow at this Outfall.
laboratory error.		• •
(q) Minimum level not met due to laboratory error.	(p)	laboratory error.
	(p)	Minimum level not met due to laboratory error.

# ARROYO SIMI DISCHARGE MONITORING DATA SUMMARY TABLE

# THIRD QUARTER 2021 THE BOEING COMPANY SANTA SUSANA FIELD LABORATORY NPDES PERMIT CA0001309

July 1 through September 30, 2021

			SAMPLE FREQUENCY	8/5/2021 08:15		
ANALYTE	UNITS	DAILY MAXIMUM PERMIT LIMIT		SAMPLE TYPE	RESULT	LABORATORY/ VALIDATION QUALIFIER
POLLUTANTS WITH LIMITS						
4,4'-DDD	μg/L	0.0014	1/Quarter	Grab	ND < 0.00080	U*
4,4'-DDE	μg/L	0.001	1/Quarter	Grab	0.00051	J (DNQ*)
4,4'-DDT	μg/L	0.001	1/Quarter	Grab	ND < 0.0016	U*
Aroclor 1016	μg/L	0.0003	1/Quarter	Grab	ND < 0.044	U*
Aroclor 1221	μg/L	0.0003	1/Quarter	Grab	ND < 0.044	U*
Aroclor 1232	μg/L	0.0003	1/Quarter	Grab	ND < 0.044	U*
Aroclor 1242	μg/L	0.0003	1/Quarter	Grab	ND < 0.044	U*
Aroclor 1248	μg/L	0.0003	1/Quarter	Grab	ND < 0.044	U*
Aroclor 1254	μg/L	0.0003	1/Quarter	Grab	ND < 0.052	U*
Aroclor 1260	μg/L	0.0003	1/Quarter	Grab	ND < 0.052	U*
Chlordane	μg/L	0.001	1/Quarter	Grab	ND < 0.0065	U*
Chlorpyrifos	μg/L	0.02	1/Quarter	Grab	ND < 0.0034	U*
Diazinon	μg/L	0.16	1/Quarter	Grab	ND < 0.0026	U*
Dieldrin	μg/L	0.0002	1/Quarter	Grab	0.00060	J (DNQ*)
E. coli	MPN/100 mL	235	1/Year	ANR	ANR	ANR
pH (Field)	S.U.	6.5-8.5	1/Quarter	Grab	6.58	*
Toxaphene	μg/L	0.0003	1/Quarter	Grab	ND < 0.013	U*
POLLUTANTS WITHOUT LIMITS				•	•	
Hardness (as CaCO3)	mg/L	-	1/Quarter	Grab	690	*
Priority Pollutants	μg/L	-	1/5 Years	ANR	ANR	ANR
Temperature (Field)	Deg F	-	1/Quarter	Grab	73.3	*
TCDD - Equivalents	μg/L	-	1/Year	ANR	ANR	ANR
Total Suspended Solids	mg/L	-	1/Year	ANR	ANR	ANR
Water Velocity	ft/sec	-	1/Quarter	Meas	0	*

# **APPENDIX D**

Third Quarter 2021 Analytical Laboratory Reports, Chain of Custody Forms, and Validation Reports

# **APPENDIX D**

# **TABLE OF CONTENTS**

# Section No.

1	Arroyo Simi – 570-66151-1 – August 05, 2021, Eurofins Calscience Analytical Repo	rt
2	Arroyo Simi – 570-66151-2 – August 05, 2021, Eurofins Calscience Analytical Repo	rt

# **Environment Testing America**

# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-66151-1

Client Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

For:

Haley & Aldrich, Inc. 400 E Van Buren St. Suite 545 Phoenix, Arizona 85004

Attn: Ms. Katherine Miller

Virentra RPaty

Authorized for release by: 8/18/2021 9:15:17 AM

Virendra Patel, Project Manager I (714)895-5494

Virendra.Patel@eurofinset.com

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www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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

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

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# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	21

10

12

### **Definitions/Glossary**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

#### Qualifiers

#### **GC Semi VOA**

Qualifier Description

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

LQ LCS/LCSD recovery above method control limits
PI Primary and confirm results varied by > than 40% RPD

#### **Glossary**

Abbreviation	These c	ommor	ily use	d abbr	evia	tions	may	or may	not be	present i	n this	report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

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)

TNTC Too Numerous To Count

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#### **Case Narrative**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Job ID: 570-66151-1

**Laboratory: Eurofins Calscience LLC** 

**Narrative** 

Job Narrative 570-66151-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/5/2021 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

#### GC Semi VOA

Method 608.3: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for preparation batch 570-169337 and analytical batch 570-170007 recovered outside control limits for the following analytes: Aroclor 1016. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

#### Metals

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

#### **Organic Prep**

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

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# **Detection Summary**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

### Client Sample ID: Arroyo\_Simi\_20210805\_Grab

### Lab Sample ID: 570-66151-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	0.00051	J,DX PI	0.0013	0.00050	ug/L	1	_	608.3	Total/NA
Dieldrin	0.00060	J,DX PI	0.0013	0.00050	ug/L	1		608.3	Total/NA
Hardness, as CaCO3	690		0.91	0.17	mg/L	1		SM 2340B	Total Recoverable

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# **Client Sample Results**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Tetrachloro-m-xylene

### Method: 608.3 - Organochlorine Pesticides in Water

58

Client Sample ID: Arroy Date Collected: 08/05/2				Lab Sample ID: 570-66151 Matrix: Wat					
Date Received: 08/05/2				Maura	. water				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND		0.010	0.0065	ug/L		08/06/21 06:00	08/10/21 12:07	1
4,4'-DDD	ND		0.0013	0.00080	ug/L		08/06/21 06:00	08/10/21 12:07	1
4,4'-DDE	0.00051	J,DX PI	0.0013	0.00050	ug/L		08/06/21 06:00	08/10/21 12:07	1
4,4'-DDT	ND		0.0033	0.0016	ug/L		08/06/21 06:00	08/10/21 12:07	1
Dieldrin	0.00060	J,DX PI	0.0013	0.00050	ug/L		08/06/21 06:00	08/10/21 12:07	1
Toxaphene	ND		0.10	0.013	ug/L		08/06/21 06:00	08/10/21 12:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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08/06/21 06:00 08/10/21 12:07

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# **Client Sample Results**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

DCB Decachlorobiphenyl (Surr)

### Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

112

Client Sample ID: Arroyo_ Date Collected: 08/05/21 0 Date Received: 08/05/21 12	8:15			Lab Sample ID: 570-66151-1 Matrix: Water					
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	LQ	0.10	0.044	ug/L		08/06/21 06:00	08/10/21 08:18	1
Aroclor 1221	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 08:18	1
Aroclor 1232	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 08:18	1
Aroclor 1242	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 08:18	1
Aroclor 1248	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 08:18	1
Aroclor 1254	ND		0.10	0.052	ug/L		08/06/21 06:00	08/10/21 08:18	1
Aroclor 1260	ND		0.10	0.052	ug/L		08/06/21 06:00	08/10/21 08:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	76		20 - 139				08/06/21 06:00	08/10/21 08:18	1

20 - 154

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08/06/21 06:00 08/10/21 08:18

111

13

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### **Client Sample Results**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Method: SM 2340B - Total Hardness (as CaCO3) by calculation - Total Recoverable

Client Sample ID: Arroyo\_Simi\_20210805\_Grab

Lab Sample ID: 570-66151-1

Date Collected: 08/05/21 08:15

Matrix: Water

Date Collected: 08/05/21 08:15 Date Received: 08/05/21 12:30

 Analyte
 Result Hardness, as CaCO3
 Qualifier 690
 RL 0.91
 MDL 0.17 mg/L
 Unit mg/L
 D mg/L
 Prepared 08/12/21 18:00
 Analyzed 08/12/21 18:00
 Dil Fac 0.91

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### **Surrogate Summary**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

## Method: 608.3 - Organochlorine Pesticides in Water

**Matrix: Water Prep Type: Total/NA** 

		TCX1	
_ab Sample ID	Client Sample ID	(20-139)	
570-66151-1	Arroyo_Simi_20210805_Grab	58	
570-66151-1 MS	Arroyo_Simi_20210805_Grab	57	
570-66151-1 MSD	Arroyo_Simi_20210805_Grab	61	
_CS 570-169337/2-B	Lab Control Sample	79	
CSD 570-169337/3-B	Lab Control Sample Dup	67	
MB 570-169337/1-B	Method Blank	66	
Surrogate Legend			

### Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Prep Type: Total/NA **Matrix: Water** 

			Percei	nt Surrogate Recovery (Acceptance Limits)
		TCX1	DCB1	
Lab Sample ID	Client Sample ID	(20-139)	(20-154)	
570-66151-1	Arroyo_Simi_20210805_Grab	76	112	
LCS 570-169337/4-A	Lab Control Sample	72	81	
LCSD 570-169337/5-A	Lab Control Sample Dup	76	80	
MB 570-169337/1-B	Method Blank	54	71	
Surrogate Legend				

DCB = DCB Decachlorobiphenyl (Surr)

8/18/2021

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

#### Method: 608.3 - Organochlorine Pesticides in Water

Lab Sample ID: MB 570-169337/1-B

**Matrix: Water** 

**Analysis Batch: 169923** 

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 169337** 

	IVI D IVI	ID						
Analyte	Result Q	ualifier	RL MD	L Unit	D	Prepared	Analyzed	Dil Fac
Chlordane (technical)	ND ND	0.0	10 0.006			08/06/21 06:00	08/10/21 00:14	1
4,4'-DDD	ND	0.00	13 0.0008	0 ug/L		08/06/21 06:00	08/10/21 00:14	1
4,4'-DDE	ND	0.00	13 0.0005	0 ug/L		08/06/21 06:00	08/10/21 00:14	1
4,4'-DDT	ND	0.00	33 0.001	6 ug/L		08/06/21 06:00	08/10/21 00:14	1
Dieldrin	ND	0.00	13 0.0005	0 ug/L		08/06/21 06:00	08/10/21 00:14	1
Toxaphene	ND	0	10 0.01	3 ug/L		08/06/21 06:00	08/10/21 00:14	1

MB MB

MD MD

Surrogate %Recovery Qualifier Limits Prepared Dil Fac Analyzed 20 - 139 08/06/21 06:00 08/10/21 00:14 Tetrachloro-m-xylene 66

Lab Sample ID: LCS 570-169337/2-B

**Matrix: Water** 

Dieldrin

**Analysis Batch: 169923** 

**Client Sample ID: Lab Control Sample** 

36 - 146

Prep Type: Total/NA **Prep Batch: 169337** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits 4,4'-DDD 0.0333 0.0331 ug/L 99 31 - 141 4,4'-DDE 0.0333 0.0296 ug/L 89 30 - 145 4,4'-DDT 0.0333 0.0331 99 25 - 160 ug/L

0.0296

ug/L

0.0333

LCS LCS

Limits Surrogate %Recovery Qualifier 20 - 139 Tetrachloro-m-xylene 79

Lab Sample ID: LCSD 570-169337/3-B

**Matrix: Water** 

**Analysis Batch: 169923** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA **Prep Batch: 169337** 

	Spike	LCSD LCSE	)		%Rec.		RPD
Analyte	Added	Result Quali	fier Unit	D %Rec	Limits	RPD	Limit
4,4'-DDD	0.0333	0.0316	ug/L	95	31 - 141	5	39
4,4'-DDE	0.0333	0.0288	ug/L	86	30 - 145	3	35
4,4'-DDT	0.0333	0.0322	ug/L	97	25 - 160	3	42
Dieldrin	0.0333	0.0289	ug/L	87	36 - 146	2	49

LCSD LCSD

%Recovery Qualifier Surrogate Limits Tetrachloro-m-xylene 67 20 - 139

Client Sample ID: Arroyo\_Simi\_20210805\_Grab

**Matrix: Water** 

**Analysis Batch: 169923** 

Lab Sample ID: 570-66151-1 MS

Prep Type: Total/NA **Prep Batch: 169337** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
4,4'-DDD	ND		0.0333	0.0246		ug/L		74	31 - 141	
4,4'-DDE	0.00051	J,DX PI	0.0333	0.0248		ug/L		73	30 - 145	
4,4'-DDT	ND		0.0333	0.0214		ug/L		64	25 - 160	
Dieldrin	0.00060	J,DX PI	0.0333	0.0255		ug/L		75	36 - 146	

**Eurofins Calscience LLC** 

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Method: 608.3 - Organochlorine Pesticides in Water (Continued)

Lab Sample ID: 570-66151-1 MS **Matrix: Water** 

**Analysis Batch: 169923** 

Client Sample ID: Arroyo\_Simi\_20210805\_Grab

Prep Type: Total/NA

**Prep Batch: 169337** 

MS MS

%Recovery Qualifier Limits Surrogate Tetrachloro-m-xylene 57 20 - 139

Lab Sample ID: 570-66151-1 MSD

**Matrix: Water** 

**Analysis Batch: 169923** 

Client Sample ID: Arroyo\_Simi\_20210805\_Grab

Prep Type: Total/NA

**Prep Batch: 169337** %Rec. **RPD** RPD Limit Limits

Sample Sample Spike MSD MSD Added %Rec **Analyte** Result Qualifier Result Qualifier Unit 4,4'-DDD ND 0.0333 0.0280 ug/L 84 31 - 141 13 39 ug/L 4,4'-DDE 0.00051 J,DX PI 0.0333 0.0276 81 30 - 145 11 35 4,4'-DDT ND 0.0333 0.0165 ug/L 50 25 - 160 26 42 Dieldrin 0.00060 J,DX PI 0.0333 82 49 0.0280 ug/L 36 - 1469

MSD MSD

%Recovery Qualifier Limits Surrogate Tetrachloro-m-xylene 61 20 - 139

Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC)

Lab Sample ID: MB 570-169337/1-B

**Matrix: Water** 

**Analysis Batch: 170007** 

Client Sample ID: Method Blank

Prep Type: Total/NA

**Prep Batch: 169337** 

	MB N	MR							
Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 07:06	1
Aroclor 1221	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 07:06	1
Aroclor 1232	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 07:06	1
Aroclor 1242	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 07:06	1
Aroclor 1248	ND		0.10	0.044	ug/L		08/06/21 06:00	08/10/21 07:06	1
Aroclor 1254	ND		0.10	0.052	ug/L		08/06/21 06:00	08/10/21 07:06	1
Aroclor 1260	ND		0.10	0.052	ug/L		08/06/21 06:00	08/10/21 07:06	1

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Tetrachloro-m-xylene (Surr) 54 20 - 139 08/06/21 06:00 08/10/21 07:06 DCB Decachlorobiphenyl (Surr) 71 20 - 154 08/06/21 06:00 08/10/21 07:06

Lab Sample ID: LCS 570-169337/4-A

**Matrix: Water** 

**Analysis Batch: 170007** 

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

**Prep Batch: 169337** %Rec.

Spike LCS LCS **Analyte** Added Result Qualifier Limits Unit D %Rec Aroclor 1016 0.133 0.273 PILQ ug/L 205 50 - 140 Aroclor 1260 0.133 0.142 ug/L 107 8 - 140

LCS LCS

Surrogate %Recovery Qualifier Limits Tetrachloro-m-xylene (Surr) 72 20 - 139 DCB Decachlorobiphenyl (Surr) 81 20 - 154

Eurofins Calscience LLC

## **QC Sample Results**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

### Method: 608.3 - Polychlorinated Biphenyls (PCBs) (GC) (Continued)

Lab Sample ID: LCSD 570-169337/5-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Water** 

**Analysis Batch: 170007** 

Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Aroclor 1016	0.133	0.291	LQ PI	ug/L		218	50 - 140	6	36
Aroclor 1260	0.133	0.150		ug/L		112	8 - 140	5	38

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene (Surr)	76		20 - 139
DCB Decachlorobiphenyl (Sเ	ırr) 80		20 - 154

Prep Ba	itch: 16	9337
%Rec.		RPD
Limits	RPD	Limit

# **QC Association Summary**

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

### **GC Semi VOA**

#### **Prep Batch: 169337**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66151-1	Arroyo_Simi_20210805_Grab	Total/NA	Water	608	
MB 570-169337/1-B	Method Blank	Total/NA	Water	608	
LCS 570-169337/2-B	Lab Control Sample	Total/NA	Water	608	
LCS 570-169337/4-A	Lab Control Sample	Total/NA	Water	608	
LCSD 570-169337/3-B	Lab Control Sample Dup	Total/NA	Water	608	
LCSD 570-169337/5-A	Lab Control Sample Dup	Total/NA	Water	608	
570-66151-1 MS	Arroyo_Simi_20210805_Grab	Total/NA	Water	608	
570-66151-1 MSD	Arroyo_Simi_20210805_Grab	Total/NA	Water	608	

#### **Analysis Batch: 169923**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66151-1	Arroyo_Simi_20210805_Grab	Total/NA	Water	608.3	169337
MB 570-169337/1-B	Method Blank	Total/NA	Water	608.3	169337
LCS 570-169337/2-B	Lab Control Sample	Total/NA	Water	608.3	169337
LCSD 570-169337/3-B	Lab Control Sample Dup	Total/NA	Water	608.3	169337
570-66151-1 MS	Arroyo_Simi_20210805_Grab	Total/NA	Water	608.3	169337
570-66151-1 MSD	Arroyo_Simi_20210805_Grab	Total/NA	Water	608.3	169337

#### **Analysis Batch: 170007**

<b>Lab Sample ID</b> 570-66151-1	Client Sample ID Arroyo_Simi_20210805_Grab	Prep Type Total/NA	Matrix Water	Method 608.3	Prep Batch 169337
MB 570-169337/1-B	Method Blank	Total/NA	Water	608.3	169337
LCS 570-169337/4-A	Lab Control Sample	Total/NA	Water	608.3	169337
LCSD 570-169337/5-A	Lab Control Sample Dup	Total/NA	Water	608.3	169337

#### Metals

#### **Analysis Batch: 654137**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-66151-1	Arroyo_Simi_20210805_Grab	Total Recoverable	Water	SM 2340B	

Job ID: 570-66151-1

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#### **Lab Chronicle**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-1

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Client Sample ID: Arroyo\_Simi\_20210805\_Grab Lab Sample ID: 570-66151-1

Date Collected: 08/05/21 08:15 Matrix: Water

Date Received: 08/05/21 12:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	608			1500 mL	1 mL	169337	08/06/21 06:00	H1SH	ECL 1
Total/NA	Analysis	608.3		1			169923	08/10/21 12:07	UHHN	ECL 1
	Instrumen	t ID: GC44								
Total/NA	Prep	608			1500 mL	1 mL	169337	08/06/21 06:00	H1SH	ECL 1
Total/NA	Analysis	608.3		1			170007	08/10/21 08:18	UHHN	ECL 1
	Instrumen	t ID: GC58								
Total Recoverable	Analysis	SM 2340B		1			654137	08/12/21 18:00	P1R	TAL IRV
	Instrumen	t ID: NOEQUIP								

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494
TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

J-66151-1

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# **Accreditation/Certification Summary**

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

### **Laboratory: Eurofins Calscience LLC**

The accreditations/certifications listed below are applicable to this report.

California State 2944 09-30-21	Authority	Program	Identification Number	Expiration Date
	California	State	2944	09-30-21

### **Laboratory: Eurofins Calscience Irvine**

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
California	State	2706	06-30-22

Job ID: 570-66151-1

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### **Method Summary**

Client: Haley & Aldrich, Inc.

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Method **Method Description** Protocol Laboratory 608.3 40CFR136A Organochlorine Pesticides in Water ECL 1 608.3 Polychlorinated Biphenyls (PCBs) (GC) 40CFR136A ECL 1 SM 2340B Total Hardness (as CaCO3) by calculation SM TAL IRV 608 Liquid-Liquid Extraction (Separatory Funnel) 40CFR136A ECL 1

#### **Protocol References:**

40CFR136A = "Methods for Organic Chemical Analysis of Municipal Industrial Wastewater", 40CFR, Part 136, Appendix A, October 26, 1984 and subsequent revisions.

SM = "Standard Methods For The Examination Of Water And Wastewater"

#### **Laboratory References:**

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494 TAL IRV = Eurofins Calscience Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Job ID: 570-66151-1

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# **Sample Summary**

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66151-1	Arroyo_Simi_20210805_Grab	Water	08/05/21 08:15	08/05/21 12:30

Job ID: 570-66151-1

#### **CHAIN OF CUSTODY FORM**



Loc 570 66151

Page 1 of 1

570-66151 Chain of Custody

Aldrich on Center Rd Suite 300			I	Boeing	Project: 1-SSFL NPDE	S		<u> </u>		ANALYS	IS REQUI	RED		Field Readings Meter serial #ZAVV/
CA 92108			Qua	Permit 2015 Quarterly Arroyo Simi-Frontier Dry Weather			,			JOT,				Field Readings: (Include units) Time of Readings: 0800
ca Contact: Virendra Patel an Ave Suite #100 2614 0-3218 #44024446				יט	y weamer			able (SM2340B)	2) its, CA	DD, 4,4-DDE, 4 4-DDT, only (E608)				pH 5.50 pH unit Temp 27.46 c/F) 73 ~ 3
rvices under this CoC shall be performed in accordance			1			Recove	n (E525 da Heigi	e, 4,4-D + PCBs						
pler Bryan Ber	150n		1					ess as CaCO <sub>3</sub> ,	yrifos, Diazino Labs in Hacien	ides: Chlordan in, Toxaphene				Field readings QC  Checked by: 1
Sample I.D.	Sampling Date/Time	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	MS/MSD	Hardn	Chlor	Pestic Dieldr				Comments
Arroyo_Simi_20210805_Grab	8/5/2021/08/5	ws ws	250 mL Poly 1L Glass Amber	3 6	HNO₃ None	100 275	Yes Yes	Х	X					Extract within 24-Hours of sampling at Weck Labs
2 Arroyo_Simi_20210805_Grab_Extra	8/5/2021/08/5	ws	1L Glass Amber	2	None	275	Yes No		Н					Hold
		110	IL Glass Alliber		Note	203	NO							FIDE
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Duning 8.5	-2021/09	55	Hurry	Aldr	rich	MX	<u> </u>			· Ø	e ve	905) 201 <u>8</u>	57 :22	Turn-around time: (Check)  24 Hour 72 Hour 10 DayX  48 Hour 5 Day Normal
30	105/21 12	230	ECI			ALL	ne		Ec	1 6	Alos)	121 12	え	Sample Integrity (Check)  Intact: On Ice:  Store samples for 6 months.  Data Requirements: (Check)  No Level IV: X
	Arroyo_Simi_20210805_Grab_Extra	Arroyo_Simi_20210805_Grab_Extra    Arroyo_Simi_20210805_Grab_Extra   8/5/2021/08/15     Date/Time:   Date/Tim	An Ave Suite #100 1614 10-3218 ##44024446 ##44024446 ##4602-32-TestAmerica by and between Haley & Aldrich, Inc. its subsidiaries and affiliates, and TestAmerica ##402446    Sample I.D.   Sampling Date/Time   Sample Matrix   Arroyo_Simi_20210805_Grab   8/5/2021/ 08/15   WS   WS   Arroyo_Simi_20210805_Grab_Extra   8/5/2021/ 08/15   WS   WS   WS   WS   WS   WS   WS   WS	And Ave Suite #100 1614 10-3218  #44024446  **Wices under this CoC shall be performed in accordance with the T&Cs within Blanket Service 122-TestAmerica by and between Haley & Aldrich, Inc. its subsidiaries and affiliates, and TestAmerica  Sample I.D.  Sampling Date/Time  Sample Matrix  Container Type Matrix  WS 250 mL Poly WS 1L Glass Amber  2 Arroyo_Simi_20210805_Grab_Extra  8/5/2021/ 08/15  WS 1L Glass Amber  1L Glass Amber  WS 1L Glass Amber  1L Glass Amber  Date/Time:  Company:  Date/Time:  Company:  Date/Time:  Company:  Date/Time:  Company:  Company:  Date/Time:  Date/Time:  Company:  Date/Time:  Date/Time:  Company:  Date/Time:  Company:  Date/Time:  Company:  Date/Time:  Company:  Date/Time:  Date/Time:  Company:  Date/Time:  Date/Time:  Company:  Date/Time:  Company:  Date/Time:  D	In Ave Suite #100 614  -03218  #44024446  Woose under this CoC shall be performed in accordance with the T&Cs within Blanket Service -022-TeetAmerica by and between Haley & Aldrich, Inc. Its subsidiaries and affiliates, and TeetAmerica  520,289,860  Field Manager 978,234,503  Sample I.D.  Sampling DaterTime  Sample Matrix  Container Type # of Cont.  Arroyo_Simi_20210805_Grab  8/5/2021/08/15  WS 1L Glass Amber 6  WS 1L Glass Amber 6  WS 1L Glass Amber 2  WS 1L Glass Amber 2	In Ave Suite #100 614 -03218 ##44024446  Vices under this CoC shall be performed in accordance with the T&Cs within Blanket Service  Vices under this CoC shall be performed in accordance with the T&Cs within Blanket Service  Project Manager Katheri  520.289.8606, 520.904.65  Field Manager Mark Do 978.234.5033, 818.599.07  Sample I.D. Sampling Date/Time Sample Matrix  Vis 250 mL Poly 3 HNO3 WS 1L Glass Amber 6 None  2 Arroyo_Simi_20210805_Grab_Extra  8/5/2021/ 08/5 WS 1L Glass Amber 2 None  2 Arroyo_Simi_20210805_Grab_Extra  8/5/2021/ 08/5 WS 1L Glass Amber 2 None  None  1 Arroyo_Simi_20210805_Grab_Extra  8/5/2021/ 08/5 WS 1L Glass Amber 2 None  None  2 Arroyo_Simi_20210805_Grab_Extra  8/5/2021/ 08/5 HWS 1L Glass Amber 2 None  WS 1L Glass Amber 2 None  WS 1L Glass Amber 2 None  None  OBIOS 24 1230 ECL	Ave Suite #100 1614 1-3218  ###################################	### AVEX. BY CLU Benson and Determined in accordance with the TSCs within Blanket Service  ###################################	### Ave Suite #100   100	### ### ### ### ### ### ### ### ### ##	## AVE SURE #100 ## 100	## AVO SURE \$100   100	### AMADEA	## AVOID 18   10   10   10   10   10   10   10

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7440 Lincoln Way Garden Grove CA 92841

#### **Chain of Custody Record**

eurofins

Page 19 of 22

Phone 714-895-5494 Fax: 714-894-7501 Sampler Lab PM Carrier Tracking No(s) COC No Client Information (Sub Contract Lab) Patel Virendra 570-116857 1 Client Contact: Phone. E-Mail: State of Origin Page Shipping/Receiving Virendra Patel@eurofinset.com California Page 1 of 1 Company Accreditations Required (See note) Job#: Weck Laboratories Inc State Program - California 570-66151-1 Address. Due Date Requested: Preservation Codes 14859 E Clark Avenue 8/19/2021 **Analysis Requested** A HCL M Hexane TAT Requested (days): B NaOH N None City of Industry Diaznon and Chlorpyrifos) (Hold) 10 Days TAT C Zn Acetate O AsNaO2 State Zip: D Nitric Acid P Na204S Level 2 and Level 4 required CA, 91745 SUB (Weck- 525.2 - Diaznon and Chlorpyrifos) E NaHSO4 Q Na2SO3 F MeOH R Na2S2O3 Phone: PO#: G Amchlor S H2SO4 H Ascorbic Acid T TSP Dodecahydrate Email: WO #: Ice U Acetone Perform MS/MSD (Yes or No) 570-66151 J Di Water V MCAA K EDTA W pH 4-5 Project Name: Project #: L EDA Z other (specify) Quarterly Arroyo Simi-Frontier Park Dry SSOW# 525.2 ŏ Total Number Matrix Sample SUB (Weck-(W=water Type Sample (C=comp, O=waste/oil Sample Identification - Client ID (Lab ID) Sample Date Time G=grab) BT=Tissue, A=Air Special Instructions/Note. Preservation Code: 2 525.2- 24 hour Ext Hold Time for Diaznon Arroyo\_Simi\_20210805\_Grab (570-66151-1) 08/05/21 0815 Water Х and Chlorpyrifos level IV package needed 2 525.2 24 hour Ext Hold Time for Diaznon Arroyo\_Simi\_20210805\_Grab (570-66151-1MS) 08/05/21 MS Water Х and Chlorpyrifos level IV package needed 525.2 24 hour Ext Hold Time for Diaznon Arroyo\_Simi\_20210805\_Grab (570-66151-1MSD) 08/05/21 MSD Х Water and Chlorpyrifos level IV package needed 2818 Arroyo\_Simi\_20210805\_Grab\_Extra (570-66151-2) 08/05/21 Water Х 2 ON HOLD Note: Since laboratory accreditations are subject to change. Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Calscience laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Calscience attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Calscience Possible Hazard Identification Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) Return To Client Disposal By Lab Unconfirmed Archive For Months Deliverable Requested I, II III IV, Other (specify) Primary Deliverable Rank. 2 Special Instructions/QC Requirements Empty Kit Religquished by Date Method of Shipment Time Relinquished b Received by Relinquished by Company Received by Date/Time Company Relinquished by Date/Time: Company Received by Date/Time Company Custody Seals Intact: Custody Seal No Cooler Temperature(s) °C and Other Remarks. TO254 Δ Yes Δ No











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Ver: 06/08/2021

7440 Lincoln Way

# **Chain of Custody Record**

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Garden Grove, CA 92841 Phone: 714-895-5494 Fax: 714-894-7501	`	Jilaili (	Ji Ous	louy	1001	J, C	4				;	A	1  ##{  EB		1313H #51#1	11993 85	\$     <b> </b>	J						
Client Information (Sub Contract Lab) Client Contact:	Sampler			Lab : Pat	PM: el Vire	ndra						C	Carrier	Track	ing No	)(s):				OC No: 70-1179	02.1			
Client Contact:	Phone:			E-Ma				- <b>-</b>					State o		in:					age:				
Shipping/Receiving Company	<u> </u>			Vire	ndra.P							ľ	Califo	mia						age 1 of	1 1		***************************************	_
Eurofins Calscience LLC					State													oo#: 70-6615	11					
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17461 Derian Ave, Suite 100 City	TAT Requested (c	lavs):			+-	_	1	1	<del>- ^'</del>	lary	313 1	\eqt	1631	eu	-	_	1	1		HCL NaOH		M Hexar	ne	
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State, Zip: CA, 92614-5817						thod									-					Nitric Ac NaHSO MeOH		P Na2O- Q Na2S- R Na2S:	03	
Phone: 949-261 1022(Tel) 949-260-3297(Fax)	PO #:					¥ =												ŀ	- 32	S Amchlo		S H2SO	4	
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Complete records and a second	The second secon	52		tion Code:	XX	2	1			1	· C · · · ·					ýģ	1	1	才		Clai III	isti uctioi	is/NOLE.	
Arroyo_Simi_20210805_Grab (570-66151 1)	8/5/21	08:15		Water		X	ĺχ		Hannon					منافقتت	-	-	especial con-		Ť		A STATE OF THE PARTY OF THE PAR			
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Note: Since laboratory accreditations are subject to change, Eurofins Calscience maintain accreditation in the State of Origin listed above for analysis/tests/matrix Calscience attention immediately—if all requested accreditations are current to continuous continuous accreditations.	being analyzed, the	samples must b	e shipped bac	k to the Eurofi	ns Calsci	ience	laborat	tory or	other															
Possible Hazard Identification					Sa	mple	e Dis <sub>i</sub>	posa	I(A	fee n	nay i	e as	sess	ed if	sam	ples	are	retai	nea	longer	than 1	month)		_
Unconfirmed						$\Box_F$	Returr	n To (	Clien	t	С	_] <sub>Di</sub>	spos	al By	Lab			Arc	chiv	e For		Mont	hs	
Deliverable Requested: I II III IV Other (specify)	Primary Deliver	able Rank.	2		Sp	ecia	Instr	uctio	ns/Q	C Re	quire	ment	s:											
Empty Kit Relinquished by		Date:			Time:								M	lethod	l of Sh	ipmei	nt:							_
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Cooler Temperature(s) °C and Other Remarks:

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Custody Seals Intact: Custody Seal No.

Client: Haley & Aldrich, Inc.

Job Number: 570-66151-1

List Source: Eurofins Calscience LLC

Login Number: 66151 List Number: 1

Creator: Patel, Virendra

Creator: Patel, Virendra		
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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC** 

### **Login Sample Receipt Checklist**

Client: Haley & Aldrich, Inc. Job Number: 570-66151-1

Login Number: 66151
List Source: Eurofins Calscience Irvine
List Number: 2
List Creation: 08/09/21 01:41 PM

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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# **ANALYTICAL REPORT**

Eurofins Calscience LLC 7440 Lincoln Way Garden Grove, CA 92841 Tel: (714)895-5494

Laboratory Job ID: 570-66151-2

Client Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

For

Haley & Aldrich, Inc. 400 E Van Buren St. Suite 545 Phoenix, Arizona 85004

Attn: Ms. Katherine Miller

Virenta & Paty

Authorized for release by: 8/24/2021 3:13:09 PM

Virendra Patel, Project Manager I (714)895-5494

Virendra.Patel@eurofinset.com

·····LINKS ······

Review your project results through

Total Access

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 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.

Client: Haley & Aldrich, Inc. Project/Site: Quarterly Arroyo Simi-Frontier Park Dry Laboratory Job ID: 570-66151-2

# **Table of Contents**

Cover Page	1
Table of Contents	
Definitions/Glossary	3
Case Narrative	4
Sample Summary	5
Subcontract Data	6
Chain of Custody	10
Receipt Checklists	13

### **Definitions/Glossary**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-2

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

### Glossary

DLC

<b>,</b>	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

Decision Level Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC Quality Control

RER Relative Error Ratio (Radiochemistry)

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)

TNTC Too Numerous To Count

**Eurofins Calscience LLC** 

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8/24/2021

#### **Case Narrative**

Client: Haley & Aldrich, Inc. Job ID: 570-66151-2

Project/Site: Quarterly Arroyo Simi-Frontier Park Dry

Job ID: 570-66151-2

**Laboratory: Eurofins Calscience LLC** 

**Narrative** 

Job Narrative 570-66151-2

#### Comments

No additional comments.

#### Receipt

The samples were received on 8/5/2021 12:30 PM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.4° C.

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

#### **Subcontract Work**

Method Weck- 525.2 - Diaznon and Chlorpyrifos: This method was subcontracted to Weck Laboratories, Inc.. The subcontract laboratory certification is different from that of the facility issuing the final report.

# **Sample Summary**

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

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-66151-1	Arroyo Simi 20210805 Grab	Water	08/05/21 08:15	08/05/21 12:30

Job ID: 570-66151-2



Certificate of Analysis

FINAL REPORT

Work Orders: 1H05045

Project: 570-66151-1

**Report Date:** 8/23/2021

Received Date: 8/5/2021

Turnaround Time: Normal

**Phones:** (714) 895-5494

Fax: (714) 894-7501

**P.O.** #: 570-66151-1

Sampled: 08/05/21 8:15 by Client

Billing Code:

Attn: Virendra Patel

Client: Eurofins Calscience - Garden Grove

7440 Lincoln Way

Garden Grove, CA 92841-1432

Dear Virendra Patel,

Enclosed are the results of analyses for samples received 8/05/21 with the Chain-of-Custody document. The samples were received in good condition, at 3.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sa	imple Results
Sample:	Arroyo_Simi_20210805_Grab (570-66151-1)

							~		,
	1H05045-01 (Wate	er)							
Analyte			Result	MDL	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA	525.2M				Instr: GCMS13				
Batch ID: W	V1H0363	Preparation: EPA 525.2/SPE			Prepared: 08/0	05/21 15:43			Analyst: EFC
Chlorpyrifo	s		ND	0.0034	0.0050	ug/l	1	08/12/21	
Diazinon			ND	0.0026	0.0050	ug/l	1	08/12/21	
Surrogate(s)									
1,3-Dimeth	yl-2-nitrobenzene		80%		76-128	Conc: 0	.400	08/12/21	
Triphenyl p	hosphate		118%		40-163	Conc: 0	.592	08/12/21	

<u>1405045</u>

14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

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# Certificate of Analysis

FINAL REPORT

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X	Quality Control Results
mi	volatile Organics - Low Level by Tandem GC/MS/MS

					Spike	Source		%REC		RPD	
Analyte	Result	MDL	MRL	Units	Level	Result	%REC	Limits	RPD	Limit	Qualifie
Blank (W1H0363-BLK1)				P	Prepared: 08/05/2	1 Analyzed: 0	08/12/21				
Chlorpyrifos	ND	0.0034	0.0050	ug/l							
Diazinon		0.0026	0.0050	ug/l							
Surrogate(s) 1,3-Dimethyl-2-nitrobenzene				ug/l	0.500		72	76-128			S-BLK
Triphenyl phosphate	0.579			ug/l	0.500		116	40-163			
LCS (W1H0363-BS1)				P	Prepared: 08/05/2	1 Analyzed: (	08/12/21				
Chlorpyrifos	0.0486	0.0034	0.0050	ug/l	0.0500		97	37-169			
Diazinon	0.0554	0.0026	0.0050	ug/l	0.0500		111	43-152			
Surrogate(s) 1,3-Dimethyl-2-nitrobenzene	0.391			ug/l	0.500		78	76-128			
Triphenyl phosphate				ug/l	0.500		117	40-163			
Matrix Spike (W1H0363-MS1)	Source	e: 1H05045-(	01	P	Prepared: 08/05/2	1 Analyzed: (	08/12/21				
Chlorpyrifos	0.0361	0.0034	0.0050	ug/l	0.0500	ND	72	37-168			
Diazinon		0.0026	0.0050	ug/l	0.0500	ND	85	36-153			
Surrogate(s) 1,3-Dimethyl-2-nitrobenzene				ug/l	0.500		91	76-128			
Triphenyl phosphate	0.679			ug/l	0.500		136	40-163			
Matrix Spike Dup (W1H0363-MSD1)	Source	e: 1H05045-0	01	P	Prepared: 08/05/2	1 Analyzed: (	08/12/21				
Chlorpyrifos	0.0517	0.0034	0.0050	ug/l	0.0500	ND	103	37-168	35	30	
Diazinon		0.0026	0.0050	ug/l	0.0500	ND	122	36-153	36	30	R-02
Surrogate(s) 1,3-Dimethyl-2-nitrobenzene	0.395			ug/l	0.500		79	76-128			
Triphenyl phosphate	0.580			ug/l	0.500		116	40-163			

1H05045 Page 2 of 3 14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634



# Certificate of Analysis

FINAL REPORT

### Notes and Definitions

Item R-02 The RPD was outside of QC acceptance limits due to possible matrix interference.

S-BLK Surrogate recovery outside of control limits for Method Blank. The data was accepted since all target analytes were not detected

%REC Percent Recovery

Dil Dilution

MDL Method Detection Limit

MRL The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence.

The MRL is also known as Limit of Quantitation (LOQ)

ND NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or

above the MDL.

**RPD** Relative Percent Difference

Source Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

#### Reviewed by:



Rahul R. Nair **Project Manager** 









DoD-ELAP ANAB #ADE-2882 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH #4047 • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

1H05045 Page 3 of 3 14859 Clark Avenue, City of Industry CA, 91745 | Phone: (626) 336-2139 | Fax: (626) 336-2634

### **Eurofins Calscience LLC**

7440 Lincoln Way

Garden Grove, CA 92841 Phone: 714-895-5494 Fax: 714-894-7501



Lab PM:

Sampler:

|--|--|--|--|--|--|--|--|--|--|

🔆 eurofins	e	TH 67
	Environi te it	1/25/18/19 P.
140504C	America	

Client Information (Sub Contract Lab)	Samplér:				ab PM: atel,		ndra						Car	rier Tra	acking	No(s):			COC No: 570-1168	357.1	:	
Client Contact: Shipping/Receiving	Phone:			1	Mail:	ira P:	atel/6	ner iro	finset	com	•••			te of O					Page: Page 1 o			******
Company: Weck Laboratories, Inc.	Ī				А	ccredi	tation	s Requ	ired (S	ee note	e):		ĮΟα	inon.					Job#:		<del>.</del>	
Address:	Due Date Request	ed:			+	state	Prog	ıram -	- Califo										570-6615 Preservat		es:	
14859 E. Clark Avenue, , City:	TAT Requested (da	8/19/2	021		+		3	1	1 1	Ana	alysi	s Re	que	stec	1	1 1		lateres à	A - HCL		M - Hexane	
City of Industry		10 Days			1.			Hold)											B - NaOH C - Zn Ace		N - None O - AsNaO2	
State, Zip: CA, 91745	Level	2 and Lev	el 4 requ	ired			8	(so.			İ								D - Nitric A E - NaHSC		P - Na2O4S Q - Na2SO3	:
Phone:	PO#:						Chlorpyrifos)	Chlorpyrlfos) (Hold)									-		F - MeOH G - Amchlo H - Ascorb		R - Na2S2O S - H2SO4 T - TSP Dod	
Emeil:	WO#:	570-66	3151		- N		and Ch	and Ch										on.	I - Ice		U - Acetone V - MCAA	·
Project Name: Quarterly Arroyo Simi-Frontier Park Dry	Project #:				٨	10 se	znon	Diaznon and										tamér	K - EDTA L - EDA		W - pH 4-5 Z - other (sp	ecify)
Site:	SSOW#:				1	Σ QS	2 - Dia											Jeon	Other:			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil BT=Tissue, A=	1, 12	Į	SUB (Weck- 625.2 - Diaznon and	SUB (Weck- 525.2					apakapan da akapapan da akapap					Total Number of containers.	Sp	ecial In	structions	/Note:
The state of the s		> <	Preserva			$\bigcirc$	1	1		i i	4		10	119				X		#645 7 6 5 7		enes jo
Агтоуо_Simi_20210805_Grab (570-66151-1)	08/05/21	08:5	+	Water			x											2			Hold Time for	
Агтоуо_Simi_20210805_Grab (570-66151-1MS)	08/05/21	2,00	MS	Water			x			Ì								2			Hold Time for	
Arroyo_Simi_20210805_Grab (570-66151-1MSD)	08/05/21	0815	MSD	Water		T	x	1				<u> </u>	1					2	525.2-24	hour Ext	Hold Time for	or Diaznon
Аггоуо_Simi_20210805_Grab_Extra (570-66151-2)	08/05/21	0615	,	Water	7	$\dagger$		х			-	$\dagger$	0	N HO	DLD			2	and Chlor	yrnos ie	vel IV packa	ge needed,
				-									1					100			•	
						1					T						_					
					1	1		<del> </del>				$\top$	+	1								
			_			$\dagger$					_			+	<del> </del>						·	
						T					$\top$						$\top$					
Note: Since laboratory accreditations are subject to change, Eurofins Calscience p maintain accreditation in the State of Origin listed above for analysis/tests/matrix to attention immediately. If all requested accreditations are current to date, return the	eino anaivzeo, ine si	ampies must be	a shipped back	to the Himo	fine ( b	alecte	nce la	borato	act labory ry or oth	oratorie her inst	s. This	samp s will b	le ship e prov	oment i	is forw Any ch	arded o	under ch	ain-of-c	ustody. If th	e laborato	ory does not c light to Eurofin	urrently is Calscience
Possible Hazard Identification						Sa	_				e ma	y be	asse	ssed	if sa	mple	s are I	etaine	ed longer	than 1	month)	
Unconfirmed Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank: 2	2			Sp		_	To Cuction	_	Regu			osal l	By La	b		Arch	ive For_		Months	
Empty Kit Relinquished by:		Date:			ŀτ	ime:							-	IMark	and of	Shipmo					<del></del>	
	Date/Jumei			Company		iiiie.	Rece	eived b	v: ==	-	-			Men	100 01				4 2 /	10.74	Company	
Relinguished by:	Date/Time:	121 11		Company	$\Box$		Pas	eived b		SCH	~4)	W	<u>)                                    </u>			Date/		910	(5/2	129		reye
																<u> </u>					Company	
Relinquished by:	Date/Time:			Company		_	Rece	eived b	y:							Date/	Time:				Сотрапу	
Custody Seals Intact: Custody Seal No.:  Δ Yes Δ No							Cool	er Ten	peratu	re(s) °C	and C	ther R	emark	cs:	3.	3-6	,	-	7025	$\overline{\lambda}$	!	
	<u> </u>	_					<u> </u>													-	Ver: 06/08	/2021

#### **Eurofins Calscience LLC**

7440 Lincoln Way

Garden Grove, CA 92841

Phone: 714-895-5494 Fax: 714-894-7501

# **Chain of Custody Record**



eurofins

Environment Testing America

Client Information (Sub Contract Lab)	Sampler:		z a set		PM: el, Vir	endra						Cami	er Traci	ing No	o(s):			COC No: 570-117083.1	
Client Contact: Shipping/Receiving	Phone:			E-M Vire	ail: endra. l	Patel@	@eur	ofinse	et.com				of Orig	ín:			1 5	Page: Page 1 of 1	
Company: EMSL Analytical, Inc.				1 2 3	Accre	ditation	ns Req	uired (	See no ate - 0	te):	rnia	y 1			1	· .		Job #: 570-66276-2	
Address: 5431 Industrial Drive,	Due Date Request 8/19/2021	ed:			INCL	A	Orego	<i>J</i> 1), G		14 (V)	745-14	177.54	4aal					Preservation Code	s:
City: Huntington Beach	TAT Requested (da	ays):	272						Au 	aiys	is Re	ques	lea					A - HCL B - NaOH C - Zn Acetate	M - Hexane N - None O - AsNaO2
State, Zip: CA, 92649																		D - Nitric Acid E - NaHSO4 F - MeOH	P - Na2O4S Q - Na2SO3 R - Na2S2O3
Phone:	PO#: <b>570-66276</b>							ļ.										G - Amchlor H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydra
Email:	<b>  WO #</b> :		gele se e L		o g	ğ   ş											e		U - Acetone V - MCAA
Project Name: SDSU Amenities / SD655B	Project #: 570-66276				e)	es or											containe	K-EDTA L-EDA	W - pH 4-5 Z - other (specify)
Site:	SSOW#:				Samp	30 - V						1 8					loojo	Other:	
		Sample	Sample Type (C=comp,	Matrix (w-water, S=solid, O=waste/oll,	eld Filtered	SUB (OSHA ID 191 - Asbestos)											Total Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	The second secon	BT=Tissue, A=Air		<u> </u>	9 (53)		0.00			1.00					X	Special Ins	tructions/Note:
SP-1 (570-66276-1)	8/4/21	11:04 Pacific		Solid		X					98.96					836 SA92	T,	Standard 10 days T	AT
SP-2 (570-66276-2)	8/4/21	11:09 Pacific		Solid		×				1	1	†		1		1	1	Standard 10 days T	AT
SP-3 (570-66276-3)	8/4/21	11:11 Pacific		Solid		x				1		1				1 4	1	Standard 10 days T	AT
SP-4 (570-66276-4)	8/4/21	11:19 Pacific		Solid		×											1	Standard 10 days T	AT
										$\perp$		<u> </u>							
										_		-							·
			-							_		-			4				
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							1					<u> </u>				1.	100		
Note: Since laboratory accreditations are subject to change, Eurofins maintain accreditation in the State of Origin listed above for analysis/ti Calscience attention immediately. If all requested accreditations are o										ories. Instruc	This sa tions wi	mple sh Il be pro	ipment vided.	is forw Any ch	arded nange	under s to ac	chain- credita	of-custody. If the laboration status should be b	atory does not current rought to Eurofins
Possible Hazard Identification Unconfirmed					s	ampl	e Dis	posa	I ( A f	ee m	ay be	asses	s <b>ed it</b> sal By	sam	ples	are r		ed longer than 1	#1010
Deliverable Requested: I, II, III, IV, Other (specify)	Primary Deliver	able Rank:	2		s						uirem	ents:	Sai by	Lab	1		Arci	nive For	Months
Empty Kit Relinquished by:		Date:			Time	<b>:</b>							Method	of Sh	ipmen	t:			esi. Di na oppaja e system
Relinquished by:	Date/Time:  8-5-202( Date/Time:	14!	10	Company E Company	r C	Rec	eived eived	020	ی س	.)	2:	lop	n	Di	ate/Tir	757	21		Company
Relinquished by:		511	<del></del>											Di	ate/ ir	ne;			Company
	Date/Time:			Company		Rec	bevies	by:					,	D	ate/Tir	ne:			Company
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No						Coo	ler Tei	mpera	lure(s) °	C and	Other F	Remark	<b>:</b>						
				<u> </u>															11 06 60 10001

#### **CHAIN OF CUSTODY FORM**



Loc 570 **66151** 

Page 1 of 1

570-66151 Chain of Custody

Client Nam						Project:	······································		Γ		ΔΝΔΙ ۷	SIS REQ	HIPED		Field Readings	Meter serial #ZAVVM
Haley & A	Aldrich on Center Rd Suite 300					-SSFL NPDE ermit 2015	ES		<b> </b>	Т	1.07113	NO REG	UINED		Field Readings: (Include units)	
San Diego				Qua		yo Simi-Fro	ntier Park				-				1	
				1		y Weather					4 4-DDT				Time of Readings: $\mathcal{SS}$	10
	ca Contact: Virendra Patel an Ave Suite #100								(SM2340B)	1					( CA	
Irvine CA 9									123		8		1		pH 5 2 P pH unit	
Tel: 949-26	0-3218									5	E6(				pH 6.50 pH unit Temp 27 96 CFF) 73	~3
EC! Project	#44024446								rable	8,0	Ö, ₹					
TestAmerica's s	ervices under this CoC shall be performed in accordant			Pro	piect Mana	ger Katheri	ne Miller		Recover	Diazinon (E525.2) Hacienda Heights,	88				VelocityOOft/sec	
Agreement# 201 Laboratories Inc	9-22-TestAmerica by and between Haley & Aldrich, Inc.	c. its subsidiaries and affiliates, a	and TestAmerica	1	-	6, 520.904.69			Sec.	E E	P. 4				<u>                                     </u>	
				321	J.205.00U	o, 520.904.08	944 (CEII)		ő	e ng	a fane			1	Field readings QC	
< _	upler Bryan Ber	a 5 ch/L		1		ger Mark Do			CaCO <sub>3</sub> ,	Hac	of the		- 1		Checked by:	
Jav	apier bryance de			978	3.234.5033	3, 818.599.07	'02 (cell)		as	S. C	S S					
									988	Lab	cides: Chlordane, 4,4-DDD, 4,4-DDE, rin, Toxaphene + PCBs only (E608)				Date/Time: 8/5/202	110801
Sample Description	Sample I.D.	Sampling Date/Time	Sample Matrix	Container Type	# of Cont.	Preservative	Bottle #	MS/MSD	Hard	Chlorpyrifos, I Weck Labs in	Pesticide Dieldrin,				Comm	nents
			ws	250 mL Poly	3	HNO <sub>3</sub>	100	Yes	Х							
1	Arroyo_Simi_20210805_Grab	8/5/2021/0815	ws	1L Glass Amber	6	None	275	Yes		X					Extract within 24-Hours of sampling a	f Weck Labs
Arroyo Simi	_		Ws	1L Glass Amber	6	None	285	Yes	ļ	<del> </del>	X					
	2 Arroyo_Simi_20210805_Grab_Extra	8/5/2021/08/5	Ws	1L Glass Amber	2	None None	275 285	No	ļ	H					Hold Hold	
<b></b>			WS	IL Glass Amber	-	None	285	No	<del> </del>	+-	H				1000	
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		1		1						1						
Relinquished	By Date/Tim					·	In			D-1-1	Time;				4=	
remiquisneo (	Date/III	ree:	Compa	ny.		, ,	Received By	76		Date/	ime:			59,5	Turn-around time: (Check)  24 Hour 72 Hour  48 Hour 5 Day:	10 Devr X
2ml	Dummil 8.5	1-2021/09	55	Hurry;	Alde	ich	$M\Lambda$				· 13	2 0	1821	Sbi	48 Hour 5 Day	Normal.
Refinauished	Date/Tim	5-2021/09	Compa	ny			Rical de B	<del>}</del>	<del></del>		Time:				1	Management Management
IIIX			230	ECL		\	11/1	we_	<i>-</i>	EC	1 /	Alex	121	1725	Sample Integrity: (Check)	
		. , - , , , , , , , , , , , , , , , , ,										i au		1000		On Ice:
Reimquished	By Date/Tim	ne:	Compa	iny.			Received By	,		Date/	time:				Store samples for 6 months.	
															Data Requirements: (Check) No Level IV: All	Level IV: X
L							L								1.10 2010114 //11	

2.8/2.4 566





Phone 714-895-5494 Fax: 714-894-7501

Client Information (Sub Contract Lab)

7440 Lincoln Way Garden Grove CA 92841

Shipping/Receiving

Weck Laboratories Inc.

14859 E Clark Avenue

Client Contact:

City of Industry

Company<sup>\*</sup>

Address.

State Zip:

CA, 91745

#### **Chain of Custody Record**

Lab PM

E-Mail:

Patel Virendra

Virendra Patel@eurofinset.com

Accreditations Required (See note)

State Program - California

Diaznon and Chlorpyrifos) (Hold)

SUB (Weck- 525.2

SUB (Weck- 525.2 - Diaznon and Chlorpyrifos)

Х

Х

Х

Х

Perform MS/MSD (Yes or No)

Matrix

(W=water

O=waste/oil,

Water

Water

Water

Water

Note: Since laboratory accreditations are subject to change Eurofins Calscience places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently

G=grab) BT=Tissue, A=Air)

Preservation Code:

Sampler

Phone.

Due Date Requested:

TAT Requested (days):

Sample Date

08/05/21

08/05/21

08/05/21

08/05/21

8/19/2021

10 Days TAT

Level 2 and Level 4 required

570-66151

Sample

Time

0815

2815

Sample

Type (C=comp,

MS

MSD

Carrier Tracking No(s)

State of Origin

ON HOLD

California

**Analysis Requested** 

eurofins

570-116857 1

Page 1 of 1

570-66151-1

Preservation Codes

M Hexane

O AsNaO2

P Na204S

Q Na2SO3

S H2SO4

U Acetone

W pH 4-5

Z other (specify)

V MCAA

Special Instructions/Note.

2 525.2- 24 hour Ext Hold Time for Diaznon

and Chlorpyrifos level IV package needed 2 525.2 24 hour Ext Hold Time for Diaznon

and Chlorpyrifos level IV package needed 525.2 24 hour Ext Hold Time for Diaznon

and Chlorpyrifos level IV package needed

R Na2S2O3

T TSP Dodecahydrate

N None

COC No

Page

Job#:

A HCL

B NaOH

C Zn Acetate

D Nitric Acid

E NaHSO4

F MeOH

G Amchior

J Di Water

Ice

K EDTA

L EDA

ō

Total Number

2

H Ascorbic Acid

	Phone:	PO #:
	Email:	WO #:
	Project Name: Quarterly Arroyo Sımi-Frontıer Park Dry	Project #:
	Site.	SSOW#
		-
P	Sample Identification - Client ID (Lab ID)	Sampl
ac	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	V   >
Page 12 of 13	Arroyo_Simi_20210805_Grab (570-66151-1)	08/0
2 0	Arroyo_Simi_20210805_Grab (570-66151-1MS)	08/0
13	Arroyo_Simi_20210805_Grab (570-66151-1MSD)	08/0
	Arroyo_Simi_20210805_Grab_Extra (570-66151-2)	08/0

maintain accreditation in the State of Origin listed above for analysis/test attention immediately				ons will be provided. Any cha	anges to accreditation status sho	uld be brought to Eurofins Calscience
Possible Hazard Identification			Sample Disposal ( A fee m	ay be assessed if sar	nples are retained longer	r than 1 month)
Unconfirmed			Return To Client	Disposal By Lat	Archive For	Months
Deliverable Requested I, II III IV, Other (specify)	Primary Deliverable Rank. 2	1	Special Instructions/QC Rec	uirements		
Empty Kit Relinquished by	Date	Tin	ne	Method of S	hipment;	
Relinquished by	8105121 HZY	Company	Received by James		Date/Time OPI US 21	MY Company WELK
Relinquished by:	Date/Time*	Company	Received by	<del>                                     </del>	Date/Time	Company
Relinquished by	Date/Time:	Company	Received by		Date/Time <sup>-</sup>	Company
Custody Seals Intact: Custody Seal No Δ Yes Δ No			Cooler Temperature(s) °C and	Other Remarks. 3	TO TO 25	<u>'</u>
						Ver: 06/08/2021







Client: Haley & Aldrich, Inc.

Job Number: 570-66151-2

Login Number: 66151 List Source: Eurofins Calscience LLC

List Number: 1

Creator: Patel, Virendra

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.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	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.	True	
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").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

**Eurofins Calscience LLC**