RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

SENT VIA E-MAIL ONLY
BonnesaLopez@rivco.org

June 15, 2026

Bonnesa Lopez, Supervising Environmental Health Specialist
County of Riverside, Department of Environmental Health
Local Solid Waste Enforcement Agency (LEA)
3880 Lemon Street, Suite 200
Riverside, CA 92501

RE: Badlands Sanitary Landfill, Facility No. 33-AA-0006
5 Year Permit Review Report and Permit Modification

Dear Ms. Lopez,

The Riverside County Department of Waste Resources (RCDWR) is in receipt of the Five-Year Permit Review Report for the Badlands Sanitary Landfill (Permit No. 33-AA-0006), dated May 6, 2026. During the review process, the LEA identified that the Solid Waste Facility Permit (SWFP), issued on November 2, 2022, listed the incorrect Design Capacity. As a result, RCDWR is submitting a SWFP Modification Application to correct this error in accordance with California Code Regulations (CCR), Title 27, Section 21665(d). The proposed update qualifies as a nonmaterial change because it does not involve any changes to the approved Final Waste Mass Grading Plan, disturbance limits, permitted landfill footprint, maximum height or depth of fill, maximum daily tonnage, or maximum daily number of vehicles. The Design Capacity in November 2022 SWFP does not reflect capacity calculations as presented in June 2022 Report of Disposal Site Information (RDSI) Joint Technical Document No. 11 (JTD11). The volumes provided in section 4, part b, c, and e of the attached SWFP modification application correct the error on the SWFP.

The November 2022 SWFP Revision application listed a Site Capacity Currently Permitted of 34,400,000 cubic yards (cy) (20,200,000 tons) and a Site Capacity Proposed of 82,300,000 cy (48,500,000 tons), resulting in a total final proposed design capacity of 116,700,000 cy (68,700,000 tons) and an estimated closure date of July 2059. However, the SWFP issued in November 2022 reflected a Design Capacity of 82,300,000 cy rather than the intended total Design Capacity of 116,700,000 cy.

The enclosed SWFP application lists a Site Capacity Currently Permitted of 82,300,000 cy (45,500,000tons), reflecting the November 2022 SWFP Design Capacity, and a Site Capacity Proposed of 34,200,000cy (25,100,000tons), for a total site capacity of 116,500,000cy (70,600,000tons) in accordance with the Site Capacity Calculations contained in Appendix A of Joint Technical Document No. 14 – Report of Disposal Site Information (JTD14) and Joint Technical Document No. 15 – Preliminary Closure and Post-Closure Maintenance Plan (JTD15).

The SWFP Modification Application package includes the following documents:

1. SWFP Modification Application
2. Joint Technical Document (JTD) CIWMB Index
3. JTD CRWQCB Index
4. Updated Joint Technical Document Addendum No. 14 (JTD14) - Report of Disposal Site Information (RDSI)

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5. Updated Joint Technical Document Addendum No. 15 (JTD15) - Preliminary Closure and Post Closure Maintenance Plan (PCPCMP)

An electronic copy of the documents listed above can be found in the following hyperlinked folder:

Badlands 2025 5-yr Review Package

The Five-Year (5yr) Permit Review Report contained bolded comments that require a response. Below are the LEA's bolded comments and RCDWR's responses.

Bolded Comment #1:
"Address does not match the SWFP and JTD14. Avenue and Road".

Department's Response:
No inconsistencies were found; Ironwood Avenue was used in both the SWFP Application and JTD14.

Bolded Comment #2:
"Site Capacity Remining on application (82,400,000 cu. yards) differs from the Design Capacity (82,300,000 cu. yards) on page 1 of the SWFP."

Department's Response:
Refer to the site capacity discussion in the second paragraph of this cover letter. The November 2022 SWFP should have had a Design Capacity of 116,700,000 (68,700,000 tons) based on the numbers presented on the application and in JTD11. Pursuant to CCR Title 27 section 21665(d) a SWFP Modification Application is submitted under cover of this letter to correct the Design Capacity on the SWFP to 116,500,000cy (70,600,000tons).

Bolded Comment #3:
"Updated closure year from July 2059 on SWFP to May 2059 on APP."

Department's Response:
Confirmed update of the closure year from July 2059 to May 2059.

Bolded Comment #4:
"Design Capacity states 82,300,000 cu. yards, however, this is an error. The correct design capacity is based off of landfill capacity survey results in JTD11 Section F and Appendix A. The correct design capacity is 116,426,787 cu. yards. The 2022 issued SWFP should have stated a design capacity of 116,400,000 cu. yards."

Department's Response:
Refer to the site capacity discussion in the second paragraph of this cover letter. The November 2022 SWFP should have had a Design Capacity of 116,700,000 (68,700,000 tons) based on the numbers presented on the application and in JTD11. Pursuant to CCR Title 27 section 21665(d) a SWFP Modification Application is submitted under cover of this letter to correct the Design Capacity on the SWFP to 116,500,000cy (70,600,000tons).

Bolded Comment #5:
"Updated wording on Organic Waste Diversion activities. Description of current accepted material from residential and commercial customers does not reflect current operation. Provide accurate description of

current material being accepted. Currently only processed feedstock is received from transfer stations. No processing of feedstock material is being conducted at Badlands Composting Facility at this time."

Department's Response:
The description of the Badlands Compost Facility under JTD14 Section B.8. Organic Waste Diversion has been updated.

Bolded Comment #6:
"Updated to provide a detailed description to the operation at the Badlands Composting Facility, however, processing of green waste and vegetative food waste is not currently being done"

Department's Response:
The description of the Badlands Compost Facility under JTD14 Section C.7.a. Existing Facilities has been updated.

Bolded Comment #7:
"RCSI is referenced as Appendix T and Appendix V. Update to the correct appendix letter for the RSCI."

Department's Response:
The Badlands Compost Facility Report of Compost Site Information (RCSI) is now consistently referenced in the JTD14 as "Appendix T – Report of Compost Site Information (RCSI)".

Bolded Comment #8:
"Total site capacity updated to 116,500,000 cubic yards."

Department's Response:
The SWFP Application, JTD14, and JTD15 have been updated with a total site capacity of 116,500,000cy (70,600,000tons).

Bolded Comment #9:
"Updated remaining capacity numbers, including relevant cubic yardage and years. Estimated closure year updated to May 2059 within section F.3."

Department's Response:
The remaining site capacity volume has been updated and the estimate closure date has been added to JTD14 section F.3 Remaining Permitted Capacity. JTD14 section F.3 reflects the remaining site capacity and estimated closure date calculated in Tables 1-3 of Appendix A.

Bolded Comment #10:
"Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate is dated January 19, 2021. Submit an updated Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate (NWRCAP)."

Department's Response:
The Badlands Sanitary Landfill Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate dated April 22, 2026 has been included under Appendix Q within the updated JTD14.

The Department is committed to maintaining regulatory compliance and continuing to work with the LEA staff. If you have any questions, or require additional information, please do not hesitate to contact me or Sarah Lunetta of my staff at (951) 486-3200.

Sincerely,

Andy Cortez

Digitally signed by Andy Cortez
Date: 2026.06.15 08:03:33 -07'00'

Andy Cortez, P.E.
General Manager – Chief Engineer

JP/SNL:jp

Attachments: 5yr Permit Review Report, date May 6, 2026
SWFP Modification Application (documents listed above)

cc: Ted Tasiopoulos (Theodore.Tasiopoulos@calrecycle.ca.gov),Frank Davies (Frank.Davies@calrecycle.ca.gov) – CalRecycle (via email w/Attachments)
Cindy Li (Cindy.Li@waterboard.ca.gov), Joanne Lee (Joanne.Lee@waterboards.ca.gov) – Water Boards (via email, attachments to be sent through Geotracker)
Angela Shibata (ashibata@aqmd.gov) – Air Quality Management District (via email w/Attachments)
Kristine Kim (kakim@rivco.org), Adam Mian (AMian@rivco.org) – LEA (via email w/Attachments)
John Hildebrand (jhildebr@rivco.org) – TLMA (via email w/Attachments)
Jeff Gow (jgow@rivco.org), Todd Shibata (tshibata@rivco.org), Kinika Hesterly (khesterl@rivco.org), Sarah Lunetta (slunetta@rivco.org), Brian Hawkinson (bhawkinson@rivco.org), Jessie Powell (jpowell@rivco.org), Christian Rodriguez (crodriguez@rivco.org) – RCDWR (via email)

PD# 375466 (Word)
PD# 376589 (PDF)

5 Year Permit Review Report

Badlands Sanitary Landfill	33-AA-0006	May 6, 2026
Facility Name	Facility Number	Review Date
Riverside County LEA	Adam Mian	
Enforcement Agency	Reviewer's Name (Type or Print)	Reviewer's Signature

Documents Reviewed

Document Name	Document Code*	Date	Updates
Application for Solid Waste Facility Permit (5-Year Permit Review)	APP	12/15/2025	
Current Solid Waste Facility Permit	SWFP	11/02/2022	
Joint Technical Document #14- RDSI	JTD14	Dec 2025	
Joint Technical Document #15- PCPCMP	JTD15	Dec 2025	
Environmental Assessment EA 2017-03	EA	March 2017	
Inspection Reports	IR	3/2021-3/2026	

Findings

Document Code	Page Number	Finding
APP	1	**Address does not match the SWFP and JTD14. Avenue and Road.**
APP	2	Maximum daily tonnage 5,300 tpd. To verify this is to include beneficial reuse of 300 tpd.
APP	2	Facility closure days missing from application (per Ordinance 358).
APP	2	Section 4.B- Site Capacity currently permitted states 116,700,000 cubic yards. This is an error.
APP	2	**Site Capacity Remining on application (82,400,000 cu. yards) differs from the Design Capacity (82,300,000 cu. yards) on page 1 of the SWFP.**
APP	2	**Updated closure year from July 2059 on SWFP to May 2059 on APP.**
SWFP	1	**Design Capacity states 82,300,000 cu. yards, however, this is an error. The correct design capacity is based off of landfill capacity survey results in JTD11 Section F and Appendix A. The correct design capacity is 116,426,787 cu. yards. The 2022 issued SWFP should have stated a design capacity of 116,400,000 cu. yards.**
JTD14	Cover	Updated to JTD 14, revision date and names/titles of signatories
JTD14	TOC	Updates to page numbers throughout
JTD14	xxii-xiii	Updates to figures, appendices, and drawings. Throughout document.

		Site Plan updated to indicate Phase I or Phase II, throughout document.
JTD14	1	Added statement regarding the remaining landfill capacity/site life.
JTD14	1	Added wording on organic waste diversion for Badlands Composting Facility.
JTD14	1	Description of updated permits and documents related to the site.
JTD14	1	A narrative on sedimentation, detention and retention basins to reflect on-site changes.
JTD14	1	Narrative describing changes to the Phase 2 leachate collection and removal system.
JTD14	1	Updated wording regarding P2S1 lined area and construction of the composting facility being completed.
JTD14	2	Updated wording from Badlands Landfill to Badlands Sanitary Landfill, throughout document.
JTD14	2	Updated opening hours to the public from 5:00 AM to 6:00 AM.
JTD14	2	Listed 5:00 AM to 6:00 AM as an opening time for commercial haulers. Monday through Friday.
JTD14	2	Minor grammatical update to the Treated Wood Waste section.
JTD14	4	Updated Waste Discharge Requirement (WDR) order numbers, throughout document.
JTD14	4	Minor grammatical updates, and included the Waste Acceptance Policy Guide in Appendix B.
JTD14	5-7	Updated wording in the High Moisture Content Waste Section B.3.e (i. – v.)
JTD14	7	Added to the Inspection, Monitoring and Records section to include information on Generator Waste Profile Sheets.
JTD14	8	Updated Waste Quantities Section B.4 to reflect current estimates and information. Included a section on the Palisades and Eaton Fires related Emergency Waiver.
JTD14	9	Updated Metals Recycling Area to Material Recycling Area, throughout document.
JTD14	10	Added wording on the written Household Hazardous Waste Collection Program guide, which is included in Appendix B.
JTD14	11-12	**Updated wording on Organic Waste Diversion activities. Description of current accepted material from residential and commercial customers does not reflect current operation. Provide accurate description of current material being accepted. Currently only processed feedstock is received from transfer stations. No processing of feedstock material is being conducted at Badlands Composting Facility at this time.**
JTD14	12	Added “411 acres” to the refuse footprint, within Section C.1. – Type of Operation.
JTD14	12	Updated density from 1,572 to 1,522 pounds per cubic yard. In Section C.2 – Typical Operation Cycle. Updated description of the location of the residential pad from the top deck of the landfill to the north of the waste recycle park.
JTD14	14	Removed certified contractors from the list of those authorized to remove hazard and universal waste components.
JTD14	15	Removed Gas to Energy Plant section.
JTD14	16	Flare Stations - Updates included that Flare Station 3 was constructed in July 2023, came online in January 2024, and Flare Station 1 was taken online April 2024.
JTD14	16	Added the location of the temporary hazardous waste storage to the Material Recycling Area.
JTD14	16	Added a description of the location of the Traffic Control/Materials Recycling Area Trailer.
JTD14	17	Southwest Sedimentation Basin- Updates to drawing letters, and minor wording updates to specify phase I and phase II.
JTD14	17	**Updated to provide a detailed description to the operation at the Badlands Composting Facility, however, processing of green waste and vegetative food**

		waste is not currently being done.
JTD14	17	**RCSI is referenced as Appendix T and Appendix V. Update to the correct appendix letter for the RSCI.**
JTD14	17	Added a subsection on Landfill Gas Beneficial Reuse, within the Improvements C.7.b. section. This subsection stated that landfill gas conditioning then conversion into renewable natural gas or electricity via linear generator equipment as possible options. CEQA support shall be provided for any proposed landfill gas beneficial reuse.
JTD14	18	Updated wording to state that two scales will be added, within the Site Entrance Improvements section.
JTD14	19	Updated section on the Emergency Stop System (ESS) to describe incorporation of the ESS into the radio system.
JTD14	20	Sections on Precipitation and Winds were updated to reflect current data.
JTD14	21	Litter Control Program section updated to reflect increase in staffing for litter control duties. Changed term “refuse” to “litter” throughout.
JTD14	24	Updated date of the Storm Water Pollution Prevention Plan (SWPPP) to December 2025 throughout document.
JTD14	26	Target per capita disposal rate and actual disposal rate updated for 2024.
JTD14	28	Traffic Volume section updated to reflect current traffic averages and peaks, including free dump day events.
JTD14	29	Computer file names and software names were updated.
JTD14	29	**Total site capacity updated to 116,500,000 cubic yards.**
JTD14	29	**Updated remaining capacity numbers, including relevant cubic yardage and years. Estimated closure year updated to May 2059 within section F.3.**
JTD14	30	Removed the section of Proposed Additional Capacity.
JTD14	30	Updated ratio, cubic yardage, and compacted refuse density numbers as they relate to readily available cover material.
JTD14	30	Updated section on the onsite sources of cover material.
JTD14	31	Updated percentage of green waste ADC of the total waste tonnage to 0.4%.
JTD14	31	Updated number of liner expansions to 12. Waste Mass Final Grading and Drainage Plan updated to be named Drawing C.
JTD14	31	Updated liner expansion phases and month/year of completion.
JTD14	32	Updated name of the next liner expansion project as P2S2. Figure and Drawing names updated.
JTD14	32	Updated CRWQCB-SAR Order Number to R8-2025-0006, where approved liner designs are contained in.
JTD14	33	Removed section titled Canyon 6 Borrow Area Grading Plan.
JTD14	33	Updated phase numbers and drawing and stockpile names.
JTD14	33-34	Updated wording and dates within the section on Topographical Contours.
JTD14	40	Updated list of current and proposed watershed and basins
JTD14	40	Updated wording from “percolation” to “temporary detention” basin, for the location of stormwater runoff from the wet weather pad.
JTD14	40	Minor wording change to specify that canyons 1-4 are in Phase I and added the word “lined” to describe where temporary sedimentation basins are located near.
JTD14	41	Updated Drawing letters and drawing names.
JTD14	41	Updated description of runoff from areas of the site with industrial activities, as well as for the P2S1 area.
JTD14	41-42	Updated the section on On-Site Drainage to describe basin names, locations, and uses of detained basin water.
JTD14	43	Updated subsection L.3.a.i. Existing, to indicate that there are 6 existing

		sedimentation basins. Removed wording and sub section on four sedimentation basins on site.
JTD14	43-44	Added description of the P2S1 sedimentation basin, including its capacity and use.
JTD14	44	Updated wording to state that water that comes into contact with trash is considered wastewater. A description of the temporary wastewater detention basin and wet weather pad temporary detention basin was also added.
JTD14	45	Removed wording on the proposed construction of two stockpiles, as well as the Badlands Resource Center Stockpile.
JTD14	45	Updated section on Drainage, Inspection, Maintenance and Repair.
	47-58	Updates to section M- Stability Design Considerations. Detailed geotechnical stability material parameters, methodology, and analysis
JTD14	58-59	Updates to Phase, Canyon, Figure and Report names within section N- Leachate Collection and Removal System (LCRS).
JTD14	59	Updated description of the LCRS for P2S1.
	60	Updated subsection on percolation basins (N.3), to describe process, and specify that the as of June 2025, percolation basins are no longer used for the collection or percolation of wastewater.
JTD14	60	Added subsection on the use of wet weather temporary detention basins, which began during the 2025/2026 winter season.
JTD14	61	Subsection O.2- Leachate, Gas Condensate and Storm Water Reuse was updated to propose the reuse of leachate, gas condensate and stormwater for plant irrigation, if CRWQCB-SAR approves.
JTD14	63	Updated wording to explain that due to the Canyon 2 Phase 5/Canyon 3 Phase 2 expansion project, groundwater monitoring well BH-23 was abandoned with CRWQCB-SAR approval.
JTD14	65	Updated subsection Q.2.a- Enclosed Flare Stations, to describe the two flares that make up the flaring system.
JTD14	66	Updated multi-depth perimeter gas probes from 14 to 16. Probes P1R, P10, P11, P12R, P13R and P14 were removed, and probes P14, P15, P16, P17, P18, P19, P20 and P21 were added. Updated to Figure 9A and 9B.
JTD14	68	Methane concentration, standard feet per cubic feet (SCFM) of landfill gas and month/year were updated within subsection Q.4- Gas Collection System.
JTD14	68	Minor updates to sampling and submittal to the CRWQCB-SAR for Gas Condensate Sampling. Subsection Q.4.c.
JTD14	70-71	Removed section Q.6- 2020 Landfill Gas Remediation Plan, and subsections within it.
JTD14	71-72	Updated section R- Preliminary Closure and Post-Closure Maintenance Plans
JTD14	73-74	Updated contact information and assignment of tasks. Added the Hazardous Waste Inspection Program to the supervisory structure.
JTD14	77-78	Updated dates to plans, permits and orders issued by California and Local Agencies.
JTD14	78-80	Updated references.
JTD14	Drawing A	Added labels to include Reduced Cycle Park Stockpiles #1-3.
JTD14	Drawing A	Edge of fill updated from 130 acres to 141 acres.
JTD14	Drawing A	Updated name of drawing from Site Plan, to Phase I Site Plan.
JTD14	Drawing B	Added Drawing B, which is titled Phase II Site Plan.
JTD14	Drawing C & D	Updated Drawing B & C to be Drawing C and D.
JTD14	Drawing E	Removed Drawing E- Canyon 6 Borrow Area Grading Plan. Taking the place of this

		is Drawing E- Northwestern Stockpile and Badlands Compost Facility Plan.
JTD14	Drawing J	Name of Drawing J updated to be titled: Representative Cross-Sections.
JTD14	Appendix A	Design capacity calculations updated.
JTD15	Appendix I	**Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate is dated January 19, 2021. Submit an updated Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate (NWRCAP).**
JTD15	Appendix T, U & V	Appendix U and Appendix V removed. Appendix T renamed to: Report Compost Site Information.
JTD15	Figure 1	Updated name of Figure 1 to: Vicinity and Fire Station Location Map.
JTD15	Figure 2	Updated Figure 2 to provide more details.
JTD15	Figure 3	Updated name of Figure 3 to Green Waste Composting Location Map. Minor updates to the map legend including the removal or rewording of listed items.
JTD15	Figure 4	Updated Figure 4- Vicinity Zoning Map.
JTD15	Figure 5A & 5B	Updated from Figure 5, to Figure 5A- Phase I Linear Construction Plan and Figure 5B- Phase II Linear Construction Plan.
JTD15	Figure 6A & 6B	Updated from Figure 6, to Figure 6A- Phase I Linear and Leachate Collection and Removal Layout, and Figure 6B- Phase II Linear and Leachate Collection and Removal Layout.
JTD15	Figure 7	Figure 7 renamed to: Local Faulting Map.
JTD15	Figure 8	Figure 8 renamed to: Groundwater Well Monitoring Location and Flow Gradient Map.
JTD15	Figure 9A & 9B	Updated from Figure 9, to Figure 9A- Phase I Gas Collection System and Probe Location Map, and Figure 9B- Phase II Gas Collection System and Probe Location Map. Removed Figure 10 due to this change.
IR	3/2021 – 3/2026	The most frequently documented violations were Litter Control (27 CCR § 20830), Alternative Daily Cover (27 CCR § 20690), and Gas Monitoring and Control (27 CCR § 20921).
IR	3/2021 – 3/2026	Litter Control (27 CCR § 20830) was documented as a violation approximately 13 times, and an area of concern (AOC) 9 times.
IR	3/2021 – 3/2026	Alternative Daily Cover (27 CCR § 20690) was documented as a violation approximately 16 times, and AOC two times.
IR	3/2021 – 3/2026	Gas Monitoring and Control (27 CCR § 20921) was documented as a violation approximately 11 times, and AOC two times.

* The Document Code is any symbol you choose to represent the name of a document (e.g. EIR,RDSI, CUP, etc.)

☐ Check here if additional pages have been attached to this form.

Findings (continued)

Document Code	Page Number	Finding

Conclusions Re: Permit Status (Revision/Suspension/Revocation)

1. Provide an accurate description of the current operations at the compositing site within all applicable areas of the JTD/RCSI, and including section B.8.
2. Update Section F.2 and F.3 to ensure the currently permitted and planned site capacity numbers are listed. Also ensure these sections are supported by Appendix A and CEQA.
3. Submit an updated Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate.

Based off of the above findings and conclusions, a permit revision will be required.

Directives Given to Operator

Permit Action Required: (Check One Box)		Documents to be Submitted: (Check all applicable boxes)	
X	Submit Application for Permit Revision	X	Updated RFI
☐	Permit Suspension	X	Financial Assurances
☐	Permit Revocation	X	CEQA Compliance
☐	Submit Application for RFI Amendment	☐	Preliminary Closure Plan
☐	Submit Owner/Operator Change Notification	☐	Final Closure Plan
☐	Other (specify below)	X	Other (specify below)
			Updated NWRCAP

Submit application for a Permit Revision.

STATE OF CALIFORNIA
DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY
REGIONAL WATER QUALITY CONTROL BOARD

APPLICATION FOR SOLID WASTE FACILITY PERMIT AND WASTE DISCHARGE REQUIREMENTS

CALRECYCLE E-1-77 (Rev. 11-15)

NOTE: This form has been developed for multiple uses. It is the transmittal sheet for documents required to be submitted to the appropriate ager
Please refer to the attached instructions for definitions of terms and for completing this application form in a complete and correct manner.

FOR OFFICIAL USE ONLY			
SWIS/WDID/Global ID NUMBER:	FILING FEE:	RECEIPT NUMBER:	DATE RECEIVED:
DATE ACCEPTED:	DATE REJECTED:	ACCEPTANCE DATE OF INCOMPLETE APPLICATION: DATE DUE:	

Part 1. GENERAL INFORMATION

A. ENFORCEMENT AGENCY: **Local Solid Waste Management Agency**

B. COUNTY: **Riverside**

C. TYPE OF APPLICATION (**Check one box only**):

- [ ] 1. NEW SWFP and/or WDRS
- [ ] 2. CHANGE TO SWFP and/or WDRS
  - [ ] REVISION
  - [X] OTHER (As authorized by law)
- [ ] 3. WAIVER
- [ ] 4. PERMIT REVIEW
- [ ] 5. AMENDMENT OF APPLICATION
- [ ] 6. RFI/ROWD/JTD AMENDME

Part 2. FACILITY DESCRIPTION

A. NAME OF FACILITY:

Badlands Sanitary Landfill

B. LOCATION OF FACILITY:

1. PHYSICAL ADDRESS OR LOCATION AND ZIP CODE:

31125 Ironwood Avenue, Moreno Valley, CA 92555

2. LATITUDE AND LONGITUDE:

33.95° N-latitude, -117.12° W-longitude

3. LEGAL DESCRIPTION OF PERMITTED BOUNDARY BY SECTION, TOWNSHIP, RANGE, BASE, AND MERIDIAN, IF SURVEYED:

Section 32, T2S, R2W, and Portions of Section 4 and 5, T3S, R2W, SBB&M.

C. TYPE OF ACTIVITY: (Check applicable boxes):

- [X] 1. DISPOSAL
  - a. TYPE : **Landfill: multiple, see Section E.**
- [X] 2. COMPOSTABLE MATERIALS HANDLI
  - a. TYPE: **Green Waste.**
- [ ] 3. TRANSFORMATION
- [ ] 4. TRANSFER/PROCESSING
- [ ] 5. C&D/INERT DEBRIS PROCESSING
- [ ] 6. IN-VESSEL DIGESTION
- [ ] 7. OTHER (describe):

D. IDENTIFICATION OF FACILITY IN CIWMP [CONFORMANCE FINDING]:

[X] 1. FACILITY IS IDENTIFIED IN (Check one):

- [X] SITING ELEMENT — DATE OF DOCUMENT: **June 27, 1997** — PAGE # **4 - 7**
- [ ] NONDISPOSAL FACILITY ELEMENT — DATE OF DOCUMENT: — PAGE #

E. TYPE OF PERMITTED WASTES TO BE RECEIVED: (Check applicable boxes):

- [X] 1. AGRICULTURAL
- [X] 2. ASBESTOS o Friable ■Non-friable
- [X] 3. ASH
- [ ] 4. AUTO SHREDDER
- [X] 5. COMPOSTABLE MATERIAL (descr **green material**
- [X] 6. CONSTRUCTION/DEMOLI
- [X] 7. CONTAMINATED SOILS
- [X] 8. DEAD ANIMALS
- [X] 9. INDUSTRIAL
- [X] 10. INERT
- [X] 11. LIQUIDS
- [X] 12. MUNICIPAL SOLID WASTE (MSW)
- [ ] 13. SEWAGE SLUDG
- [X] 14. WASTE TIRES
- [X] 15. OTHER (describe)

Empty Pesticide containers that are triple rinsed and punctured prior to disposal. Single tires commingled with refuse load. Contaminated soil after approval through the special waste approval through the special waste approval process. Treated wood waste provided it is buried in a lined portion of the landfill. CRT panel glass and other industrial waste subject to review and approval.

Part 3. FACILITY INFORMATION

A. FACILITY INFORMATION:

1. INFORMATION APPLICABLE TO ALL EXISTING FACILITIES:

a. MAXIMUM DAILY TONNAGE OR CUBIC YARDS: **5,300 tpd**

b. AS-DESIGNED DAILY TONNAGE or CUBIC YARDS: **5,000 tpd**

c. FACILITY SIZE (acres): **811 acres**

d. MAXIMUM TRAFFIC VOLUME PER D (vpd): **612 vpd**

e. DAYS AND HOURS OF OPERATION: **Monday through Sunday, 4:00 a.m. to 8:00 p.m.; 24 hours/day - 7 days/week for ancillary activities.**

2. PROPOSED CHANGE(S) OR INFORMATION APPLICABLE TO NEW SWFP AND/OR WDRs

a. MAXIMUM DAILY TONNAGE OR CUBIC YARDS: **0**

b. AS-DESIGNED DAILY TONNAGE or CUBIC YARDS: **0**

c. FACILITY SIZE (acres): **0**

d. MAXIMUM TRAFFIC VOLUME PER DA (vpd): **0**

e. DAYS AND HOURS OF OPERATION: **N/A**

f. OTHER: **N/A**

3. ADDITIONAL INFO. REQUIRED FOR COMPOSTABLE MATERIALS HANDLING FACILITIES ONLY

a. TOTAL SITE CAPACITY (cu yds): **N/A**

4. ADDITIONAL INFORMATION REQUIRED FOR LANDFILLS ONLY

a. AVERAGE DAILY TONNAGE (TPD: **3,100 tpd (October 1, 2025 - October 31, 2030)**

b. SITE CAPACITY CURRENTLY PERMITTED (Airspace) (cu y: **82,300,000 cu yds (45,500,000 tons)**

c. SITE CAPACITY PROPOSED (Airspace) (cu yds): **34,200,000 cu yds (25,100,000 tons)**

d. SITE CAPACITY USED TO DATE (Airspace) (cu yds): **34,100,000 cu yds (20,200,000 tons)**

e. SITE CAPACITY REMAINING (Airspace) (cu yds): **48,200,000 cu yds (20,300,000 tons)**

f. DATE OF CAPACITY INFORMATION (Date) (See instruction: **November 1, 2025**

g. LAST PHYSICAL SITE SURVEY (Date: **September 17, 2025**

h. ESTIMATED CLOSURE DATE (month and year): **May 2059**

i. DISPOSAL FOOTPRINT (acres): **409 acres**

j. SITE CAPACITY PLANNED (cu yds: **82,300,000 cu yds (45,500,000 tons)**

k. 1. (i) IN-PLACE WASTE DENSITY (lbs of waste per cu yd of waste: **1,522 lbs/cu yd**

AND

(ii) WASTE-TO-COVER RATIO (Estimated) (v:v): **4.11:1**

OR

2. AIRSPACE UTILIZATION FACTOR (tons of waste per cu yd of landfill airspace): **N/A**

Part 4. SOURCE OF WATER SUPPLY (Check applicable boxes)

[X] A. MUNICIPAL OR UTILITY SERVICE: **Eastern Municipal Water District, 2270 Trumble Road, Perris, CA 92570. Hydrant is located 500 feet south of the Ironwood Avenue and Theodore Street Intersection.**

[X] B. INDIVIDUAL (wells): **Cycle Park Well, located approximately 4,000 feet north of the landfill site entrance.**

[ ] C. SURFACE SUPPLY:

1. NAME OF STREAM, LAKE, ETC. :

2. TYPE OF WATER RIGHTS:

[ ] RIPARIAN [ ] APPROPRIATION

3. STATE PERMIT OR LICENSE NUMBER , IF APPLICAB:

[ ] D. OTHER:

Part 5. COMPLIANCE WITH CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA) (Check applicable boxes)

A. CHECK BOX(ES) IF ENVIRONMENTAL DOCUMENT WAS OR WILL BE PREPARED FOR THIS PROJECT:

[X] 1. ENVIRONMENTAL DOCUMENT WAS PREPARED:

[ ] ENVIRONMENTAL IMPACT REPORT (EIR) SCI

[X] NEGATIVE DECLARATION (ND)/MITIGATED NEGATIVE DECLARATION (MND) SCH# **EA #2017-03**

[ ] ADDENDUM TO (Identify environmental docume SCH#

[ ] 2. ENVIRONMENTAL DOCUMENT WILL BE PREPARED (Enter lead agen

B. IF ENVIRONMENTAL DOCUMENT(S) WAS NOT PREPARED, PLEASE PROVIDE THE FOLLOWING INFORMATION:

[ ] CATEGORICAL/STATUTORY EXEMPTION (CE/SE)
EXEMPTION TYPE GUIDELINE #

Part 6. LIST OF ATTACHMENTS (Fill in the date for each document checked)

A. REQUIRED WITH ALL APPLICATION SUBMITTALS:

[X] RFI/JTD **Reviewed RDSI**

[X] LOCATION MAP **JTD14 -Figure 1**

[ ] MITIGATION MONITORING & REPORTING PROGRAM **N/A**

[ ] LIST OF PUBLIC HEARINGS AND OTHER MEETINGS OPEN TO **N/A**

[ ] ENVIRONMENTAL DOCUMENT(S):

☐ EIR **N/A**

☐ MND/ND

☐ EXEMPTION

☐ ADDENDUM

B. ADDITIONAL REQUIRED DOCUMENTS FOR DISPOSAL FACILITIES ONLY:

[X] OPERATING LIABILITY FINANCIAL MECHANISM

[X] FINANCIAL RESPONSIBILITY DOCUMENTATION **JTD14 -Appendix Q**

[X] CLOSURE/POST CLOSURE MAINTENANCE PLAN

[ ] KNOWN OR REASONABLY FORSEEABLE CORRECTIVE ACTION COST ES

■ PRELIMINARY **JTD15**
☐ FINAL

[X] LANDFILL CAPACITY SURVEY RESULTS (see instructions) **JTD14 Section F Appendix A**

C. IF APPLICABLE:

[ ] REPORT OF WASTE DISCHARGE

[ ] DEPT. OF TOXIC SUBSTANCES CONTROL OR CERTIFIED UNIFIED PROGRAM AGENCY

[ ] STORMWATER PERMIT APPLICATION

[ ] SWAT (Air and water)

[ ] NPDES PERMIT APPLICATION

[ ] WETLANDS PERMITS

[ ] OTHER

[ ] VERIFICATION OF FIRE DISTRICT COMPLI

Part 7. OWNER INFORMATION (For disposal site, if operator is different from land owner, attach lease or other agreement)

TYPE OF BUSINESS:

[ ] SOLE PROPRIETORSHIP [ ] PARTNERSHIP [ ] CORPORATION [X] GOVERNMENT AGENCY

OWNER(S) OF LAND (Name):

Riverside County Department of Waste Resources

SSN OR TAX ID #

95-6000930

ADDRESS, CITY, STATE, ZIP

14310 Frederick Street, Moreno Valley, CA 92553

TELEPHONE #:

(951) 486-3200

FAX #:

(951) 486-3257

E-MAIL ADDRESS:

slunetta@RIVCO.ORG

CONTACT PERSON (Print Name):

Sarah Lunetta, P.E., Principal Engineer

Part 8. OPERATOR INFORMATION (For disposal site, if operator is different from land owner, attach lease or other agreement)

TYPE OF BUSINESS:

☐ SOLE PROPRIETORSHIP ☐ PARTNERSHIP ☐ CORPORATION ☒ GOVERNMENT AGENCY

FACILITY OPERATOR(S) (Name):	SSN OR TAX ID #:
Riverside County Department of Waste Resources	95-6000930
ADDRESS, CITY, STATE, ZIP	TELEPHONE #:
	(951) 486-3200
	FAX #:
	(951) 486-3257
14310 Frederick Street, Moreno Valley, CA 92553	E-MAIL ADDRESS: slunetta@RIVCO.ORG
	CONTACT PERSON (Print Name):
	Sarah Lunetta, P.E., Principal Engineer

ADDRESS WHERE LEGAL NOTICE MAY BE SERVED:

Part 9. SIGNATURE BLOCK

Owner:

I certify under penalty of perjury that the information I provided for this application and for any attachments is true and accurate to the best of my knowledge and belief. I am aware that the operator intends to operate a solid waste facility at the site specified above pursuant to this application and understand that I may be responsible for the site should the operator fail to meet applicable requirements.

SIGNATURE (LAND OWNER OR AGENT):

Andy Cortez Digitally signed by Andy Cortez Date: 2026.06.15 08:03:45 -07'00'

PRINTED NAME:

Andy Cortez, P.E. 06/15/2026

TITLE: General Manager - Chief Engineer DATE:

Lessee:

I certify under penalty of perjury that the information I provided for this application and for any attachments is true and accurate to the best of my knowledge and belief. I am aware that the operator intends to operate a solid waste facility at the site specified above pursuant to this application.

SIGNATURE (LESSEE):

PRINTED NAME:

TITLE: DATE:

Operator:

I certify under penalty of perjury that the information contained in this application and all attachments are true and accurate to the best of my knowledge and belief.

SIGNATURE (FACILITY OPERATOR OR AGENT):

Andy Cortez Digitally signed by Andy Cortez Date: 2026.06.15 08:04:00 -07'00'

PRINTED NAME:

Andy Cortez, P.E. 06/15/2026

TITLE: General Manager - Chief Engineer DATE:

Part 10. OTHER (Attach additional sheets to explain any responses that need clarification).

Joint Technical Document Index
CIWMB Requirements

Badlands Sanitary Landfill – December 2025

JTD Addendum No. 14 (JTD14) – Report of Disposal Site Information

JTD Addendum No. 15 (JTD15) – Preliminary Closure and Post-Closure Maintenance Plan

CIWMB JTD Requirements	CIWMB Section No.	SWRCB Section No.	JTD Page(s)
General			
Name of Facility, Site Operator and Owner	21600(b)(1)(A)		JTD14 Sections A.1, A.2
Description of the Operation Cycle	21600(b)(1)(A)		JTD14 Section C.2
Site Plan Including Boundaries, Acreage, and Buffer Zones	21600(b)(1)(B)		JTD14 Sections D, H; Figures 2; Drawing A and B
Hours of Operation	21600(b)(1)(C)		JTD14 Section A.4
Waste Classification and Management			
Types and Quantities of Waste	21600(b)(2)(A)	21740(a)(1)	JTD14 Section B
Waste Management Unit Classification and Siting			
Airport Safety	21600(b)(3)(A)		JTD14 Section T.3; Appendix R
Volumetric Capacity	21600(b)(3)(B)		JTD14 Section F; Drawings D, F; Appendix A
Site Life Estimate	21600(b)(3)(C)		JTD14 Section F.3; Appendix A Table 3, Figure 2
Site Location (vicinity map)	21600(b)(3)(D)		JTD14 Section A.2.a; Figure 1
Surrounding Land Use and Zoning (plot plan)	21600(b)(3)(E)	21750(h)4	JTD14 Section C.11; Figures 2, 4
Ancillary Facilities (include on plot plan)	21600(b)(3)(F)		JTD14 Section C.7; Drawing A and B
Design and Construction Standards for All Waste Management Units			
Design Responsibility *{Describe how the site design provides for the surrounding physical setting}*	21600(b)(4)(A)	21750(a-h)	JTD14 Sections C.11, C.12.a, J, K, L, M; Figures 2, 8, 9A, and 9B
Design Responsibility *{New disposal sites shall be designed under a civil engineer}*	21600(b)(4)(B)		JTD14 Signature Page;
Construction Sequencing Plans	21600(b)(4)(C)		JTD14 Sections H.1, H.2; Figure 5A and 5B
Grading Plan *{Include existing and proposed final contours for disposal area and borrow area}*	21600(b)(4)(D)	21090(b)-(b)(3)	JTD14 Sections H, I; Drawings C, D, E, F, G, H
Gas Management Plan *{Demonstrate the ability to comply with T27 20919, 20919.5 and gas control for closure plans}*	21600(b)(4)(E)		JTD14 Sections C.7, O, Q; Figure 9A and 9B; Appendix O

Joint Technical Document Index
CIWMB Requirements

Badlands Sanitary Landfill – December 2025

JTD Addendum No. 14 (JTD14) – Report of Disposal Site Information
JTD Addendum No. 15 (JTD15) – Preliminary Closure and Post-Closure Maintenance Plan

CIWMB JTD Requirements	CIWMB Section No.	SWRCB Section No.	JTD Page(s)
Operating Criteria {Demonstrate the ability to comply with the following:}			
Disposal Site Records	21600(b)(5)(A)		JTD14 Section T
Site Security	21600(b)(5)(B)		JTD14 Section C.10.h
Sanitary Facilities	21600(b)(5)(C)		JTD14 Section C.8.a
Communications Systems	21600(b)(5)(D)		JTD14 Sections C.8.c, and C.8.e
Lighting {for facilities which operate during darkness}	21600(b)(5)(E)		JTD14 Section C.8.d
Safety Equipment	21600(b)(5)(F)		JTD14 Section C.8.e
Personnel Requirements	21600(b)(5)(G)		JTD14 Section S.3
Personnel Training	21600(b)(5)(H)		JTD14 Section S.3.e
Supervisory Structure	21600(b)(5)(I)		JTD14 Section S.3.a
Spreading and Compacting	21600(b)(5)(J)		JTD14 Sections C.1, C.2
Cover			
Cover Materials	21600(b)(6)(A)		JTD14 Sections C.1, F.4
Cover Frequency	21600(b)(6)(B)		JTD14 Sections C.1, F.4
Intermediate Cover	21600(b)(6)(C)		JTD14 Section F.4.a
Handling			
Public Health Design Parameters	21600(b)(7)(A)		JTD14 Sections C.3.a, C.8, C.10, N, O, P, Q
Salvaging Activities	21600(b)(7)(B)		JTD14 Section B.7, C.4
Volume Reduction Activities	21600(b)(7)(C)		JTD14 Sections B.6, B.7, C.3, C.4, C.7.b, G,
Equipment	21600(b)(7)(D)		JTD14 Section C.6
Special Waste Handling	21600(b)(7)(E)	21740(a)(1)	JTD14 Sections B.3, C.5; Appendix B

Joint Technical Document Index
CIWMB Requirements

Badlands Sanitary Landfill – December 2025

JTD Addendum No. 14 (JTD14) – Report of Disposal Site Information
JTD Addendum No. 15 (JTD15) – Preliminary Closure and Post-Closure Maintenance Plan

CIWMB JTD Requirements	CIWMB Section No.	SWRCB Section No.	JTD Page(s)
Environmental Controls			
Nuisance	21600(b)(8)(A)		JTD14 Section C.10
Fire Control	21600(b)(8)(B)		JTD14 Section C.10.f
Leachate Control (for purposes of public health)	21600(b)(8)(C)		JTD14 Section N; Figure 6A and 6B
Dust Control	21600(b)(8)(D)	21090(a)(5)(B)	JTD14 Section C.10.d
Vector Control	21600(b)(8)(E)	20425(d)(3)	JTD14 Section C.10.e
Drainage & Erosion Control	21600(b)(8)(F)	21090(c)(4)	JTD14 Sections C.10.i, L; Drawing D; Appendix J
Litter Control	21600(b)(8)(G)		JTD14 Section C.10.c
Noise Control	21600(b)(8)(H)		JTD14 Section C.10.a
Traffic Control (within the facility)	21600(b)(8)(I)		JTD14 Sections C.10g, E; Drawing A and B
Hazardous Waste/Loadchecking	21600(b)(8)(J)		JTD14 Section B.5; Appendix G
APPROVALS			
Compilation of Approvals	21600(b)(9)		JTD14 Section T; Appendices R, S

CIWMB - Requirements for JTD/RDSI amendments and/or complete application package [21600(a)]	CIWMB Section No.	SWRCB Section No.	JTD Page(s)
CEQA Information	21570(f)(3)(4)		JTD14 Section C.12d
Conformance Finding Information	21570(f)(5)		JTD14 Section C.12
Complete Closure/Postclosure Maintenance Plan	21570(f)(6)		JTD14 Section R; Appendix P; JTD15
Financial Assurances Operating Liability Information	21570(f)(7 and 8)		JTD14 Section R.1, Appendix Q
Land Use and/or Conditional Use Permits	21570(f)(9)		JTD14 Section C.11, Figures 2, 3

Joint Technical Document Index
CIWMB Requirements

Badlands Sanitary Landfill – December 2025

JTD Addendum No. 14 (JTD14) – Report of Disposal Site Information
JTD Addendum No. 15 (JTD15) – Preliminary Closure and Post-Closure Maintenance Plan

CIWMB JTD Requirements	CIWMB Section No.	SWRCB Section No.	JTD Page(s)
CIWMB - Closure/Postclosure Maintenance Plan Requirements if part of JTD - PRELIMINARY Closure Plans			
Closure Cost Estimate	21790(b)(1)	20950(f)	JTD15 PCP Section G.1; PCMP Section D.1; Appendix I
Location Maps	21790(b)(2 & 4)		JTD15 Figures 1-3, Drawing A and B
Post-Closure Land Uses	21790(b)(5)		JTD15 PCP Section B.3.a; PCMP Section B.3.a
Estimate of Required Closure	21790(b)(6)		JTD15 PCP Section F.5.c
Estimated Closure Date	21790(b)(7)		JTD15 PCP Section F.1, Appendix E
Closure Activities	21790(b)(8)	21090(d)	JTD15 PCP Section F, Appendix E
Site Security and Structure Removal	21790(b)(8)(A)		JTD15 PCP Sections F.2 and F.3
Final Cover and Grading	21790(b)(8)(B)	21090(a)-(a)(2), (a)(6), (b)-(b)(3), 21750 (f)(5)	JTD15 PCP Sections F.4, F.5; PCMP Section C.5
Construction Quality Assurance	21790(b)(8)(C)		JTD15 PCP Section F.14
Drainage and Erosion Control	21790(b)(8)(D)	21090(a)(3)-(a)(3)(B)	JTD15 PCP Sections E, F.8; PCMP SectionsC.1, C.6
Gas Monitoring	21790(b)(8)(E)	20425(d)(3)	JTD15 PCP Section D; PCMP Section C.3
Leachate Monitoring	21790(b)(8)(F)	21090(c)(2)	JTD15 PCP Section F.12; PCMP C.2

Joint Technical Document Index
CIWMB Requirements

Badlands Sanitary Landfill – December 2025

JTD Addendum No. 14 (JTD14) – Report of Disposal Site Information
JTD Addendum No. 15 (JTD15) – Preliminary Closure and Post-Closure Maintenance Plan

CIWMB JTD Requirements	CIWMB Section No.	SWRCB Section No.	JTD Page(s)
CIWMB – Closure/Postclosure Maintenance Plan Requirements if part of JTD – FINAL Closure Plans			
Items Under 21790 (Preliminary Plans)	21800(c)	20425(d)(3), 20950(f), 20909(a)-(a)(3)(A)(3), 21090	N/A
Sequence of Closure Stages With Dates	21800(c)	21090(a)-(a)(2), (d)	N/A
Schedule for Disbursement	21800(d)		N/A
CIWMB - Closure/Postclosure Maintenance Plan Requirements if part of JTD - PRELIMINARY Postclosure Maintenance Plans	**CIWMB Section No.**	**SWRCB Section No.**	
Description of Planned Uses per 21190	21825(b)(1)	21769(b)	JTD15 PCP & PCMP Section B.3.a
Description of Maintenance per 21180	21825(b)(2)	21769(b)	JTD15 PCMP Section C
CIWMB - Closure/Postclosure Maintenance Plan Requirements if part of JTD - FINAL Postclosure Maintenance Plans	**CIWMB Section No.**	**SWRCB Section No.**	
Emergency Response Plans per 21130	21830(b)(1)	21769(c)	N/A
List of Responsible Parties	21830(b)(2)	21769(c)	N/A
Post-Closure Planned Uses per 21190	21830(b)(3)	21769(c)	N/A
As-builts for Monitoring and Control Systems, etc.	21830(b)(4)	21769(c)	N/A
Description of Maintenance per 21180	21830(b)(5)	21769(c)	N/A
Operations and Maintenance plan for Gas Control System	21830(b)(6)	21769(c)	N/A
Plan to Report Results of Monit./Control per 21180	21830(b)(7)	21769(c)	N/A
Postclosure Mtce. Cost Estimates per 21840	21830(b)(8)	21769(c)	N/A

NOTE: For submitting amendments of Closure and Postclosure Maintenance Plans as part of a JTD, use Section 21780 and include the requirements of Section 21865 (b)(1)(4).

SWRCB JTD Index
Badlands Sanitary Landfill
December 2025

JTD Addendum No. 14 - Revised Report of Disposal Site Information
JTD Addendum No. 15 – Preliminary Closure and Post-Closure Maintenance Plan

SWRCB Requirement	SWRCB Citation	Related CIWMB Citation	JTD Page Range(s) Fulfilling SWRCB Citation
Chapter 1. General Article 1. Purpose, Scope and Applicability of this Subdivision			
§20080. General Requirements. [engineered alternatives to prescriptive standards]	20080(b-c)		JTD14 Section H.3 pgs 29; Appendix K
Chapter 3. Criteria for All Waste Management Units, Facilities, and Disposal Sites ** Subchapter 2. Siting and Design ** Article 2. SWRCB - Waste Classification and Management ** §20200. SWRCB - Applicability and Classification Criteria.			
Concept (& describes possible exemption)	20200(a)		JTD14 Section B pgs 2-10
Demonstration proposing to allow discharge of a particular waste to a particular landfill of lower classification	20200(a)(1)		JTD14 Section B.3 pgs 3-6
Dedicated units/cells for certain wastes	20200(b)-(b)(2)(C)		
Waste characterization	20200(c)		JTD14 Section B pgs 4-12
Management of liquids	20200(d)-(d)(3)		JTD14 Section B.3.e pgs 4-6
§20220. Nonhazardous Solid Waste.			JTD14 Sections B.2 – B.4 pgs 2-7
Demonstration by discharger	20220(b)-(b)(2)		JTD14 Section B.5 pgs 7-9, Section C.3.c pg 11
Dewatered sludge (describes conditions for discharge)	20220(c)-(c)(3)		JTD14 Section B.3.d pgs 4
Ash (allows discharge of non-hazardous ash to Class III landfills w/o determining of ash is designated waste)	20220(d)		
Article 3. Waste Management Unit, Facility, or Disposal Site Classification and Siting **			
§20240. Classification and Siting Criteria.	20240		JTD14 Section A.3 pg 2
§20250. Class II: Waste Management Units for Designated Waste.	20250		
§20260. Class III: Landfills for Nonhazardous Solid Waste.	20260		JTD14 Sections J pgs 30-32, K pgs 32-36, M pgs 40-44, and P pgs 47-50
Article 4. SWRCB - Waste Management Unit Construction Standards **			

SWRCB Requirement	SWRCB Citation	Related CIWMB Citation	JTD Page Range(s) Fulfilling SWRCB Citation
§20310. General Construction Criteria.	20310		JTD14 Sections H.1-H.4 pgs 28-29, M.1 pgs 40-41
§20320. General Criteria for Containment Structures.	20320		JTD14 Sections H.1 to H.4 pgs 28-29, Figure 5A and 5B; Appendices C and K
§20323 & §20324. CQA Plan & Requirements	20323 & 20324		
§20330. Liners.	20330		JTD14 Sections H.1 to H.4 pgs 31-32, Figure 5A and 5B; Appendices C and K
§20340. Leachate Collection and Removal Systems (LCRS).	20340		JTD14 Section N pgs 49-50; Figure 6A and 6B; Appendix K
§20360. Subsurface Barriers.	20360		
§20365. Precipitation and Drainage Controls.	20365		JTD14 Section C.9.a pg 17-18, Section C.10.i pg 21, Section L pgs 36 -40, Drawing C
§20370. Seismic Design.	20370		JTD14 Section M.2 pgs 41-43
§20375. Special Requirements for Surface Impoundments.	20375		JTD14 Section B.3.e pgs 4-6
Subchapter 3. Water Monitoring ** Article 1. SWRCB - Water Quality Monitoring and Response Programs for Solid Waste Management Units ** §20380. SWRCB - Applicability.			
Corrective action financial assurance	20380(b)		JTD14 Section R.3 pgs 56; Appendix Q
Duration of applicability	20380(c)-(c)(2)	21900	
Limitations on engineered alternatives	20380(e)-(e)(3)		JTD14 Section H.3 pg 29; Appendix K
§20385. Required Programs.	20385		
§20390. Water Quality Protection Standard (Water Standard).	20390		JTD14 Section P.3 pgs 49-50, Appendix N pgs 49-50
§20395. Constituents of Concern (COCs).			
COCs	20395(a)		JTD14 Appendix C
MSW COCs	20395(b)		JTD14 Appendix C
§20400. Concentration Limits.			
Proposing COCs	20400(a)-(a)(3)		JTD14 Appendix C
Adoption of concentration limits	20400(b)-(b)(3)		JTD14 Appendix C
Establishing a CLGB (for corrective action only)	20400(c-h)		JTD14 Appendix C
Decreasing a CLGB (in DMP following a CAP)	20400(i)		JTD14 Appendix C
§20405. Monitoring Points and the Point of Compliance.	20405(a-b)		JTD14 Appendix N
§20410. Compliance Period.	20410(a-c)		JTD14 Appendix N

SWRCB Requirement	SWRCB Citation	Related CIWMB Citation	JTD Page Range(s) Fulfilling SWRCB Citation
§20415. General Water Quality Monitoring and System Requirements.			
Section applies to all monitoring programs	20415(a)		JTD114 Appendix N
G.W. Mon. System (general)	20415(b)-(b)(4)(D)		JTD14 Appendix N
Sfc. Water Mon. (general)	20415(c)-(c)(2)(D)		JTD14 Appendix N
U.Z. Mon. (general)	20415(d)-(d)(4)		JTD14 Appendix N
Mon. systems designed by RG or RCE	20415(e)(1)		JTD14 Appendix N
Logging of borings	20415(e)(2)-(e)(2)(C)		JTD14 Appendix N
Shared monitoring system demonstration for contiguous Units	20415(e)(3)		JTD1 Appendix N
Monitoring sample QA/QC	20415(e)(4)-(e)(4)(D)		JTD14 Appendix N
Sampling & analytical methods (perf. std. for)	20415(e)(5)		JTD14 Appendix N
Monitoring data procurement, analysis, and submittal	20415(e)(6)-(c)(15)		JTD14 Appendix N
§20420. Detection Monitoring Program.	20420		JTD14 Appendix N
§20425. SWRCB - Evaluation Monitoring Program.	20425	re ?(d)(3): 20919 et seq., 21600(b)(8)(E), 21790(b)(8)(E), 21800(c)	JTD14 Appendix N
§20430. Corrective Action Program.	20430		JTD14 Appendix N
Subchapter 4. Criteria for Landfills and Disposal Sites Article 2. CIWMB - Daily and Intermediate Cover			
§20705. Standards for Daily and Intermediate (Interim) Cover.	20705		JTD14 Section F.4 pgs 27
Subchapter 5. Closure and Post-Closure Maintenance ** Article 1. General Standards For All Waste Management Units **			
§20950. General Closure and Post-Closure Maintenance Standards Applicable to Waste Management Units (Units) for Solid Waste.	20950	re ?(f): 21780(a)(3), 21790(b)(1), 21800(c), 21820, 21840	JTD15 PCP Section A.2 pg 2; PCMP Section A.2 pg 1
Article 2. Closure and Post-Closure Maintenance Standards for Disposal Sites and Landfills §21090. Closure and Post-Closure Maintenance Requirements for Solid Waste Landfills.			
Final cover requirements (general)	21090(a)-(a)(2)	21140, 21790(b)(8)(B), 21800(c)	JTD15 PCP Section F.4 pgs 17-18; PCMP Section C.5 pgs 12-13
			JTD15 PCP Section F.8

SWRCB Requirement	SWRCB Citation	Related CIWMB Citation	JTD Page Range(s) Fulfilling SWRCB Citation
Erosion control layer	21090(a)(3)-(a)(3)(A)3.	21140, 21150, 21790(b)(8)(D), 21800(c)	pgs 24-27; PCMP Section C.1 pg 4
Maintenance (& plan for)	21090(a)(4)-(a)(4)(D)		JTD15 PCMP Section C pgs 3-14
Discharges of liquids to covers (leachate & condensate)	21090(a)(5)(A)		JTD15 PCP Sections D.5.c pg 12-13, F.11 pgs 23; PCMP Sections C.2 pgs 4-6, C.3.c.iv pg 9
Discharges of liquids to covers (other liquids)	21090(a)(5)(B)	20800, 21600(b)(8)(D)	JTD15 PCP Sections E pg 13, F.8 pgs 24-27; PCMP Section C.6 pgs 13
Stability analysis	21090(a)(6)	21145, 21790(b)(8)(B)	JTD15 PCP Section F.7 pgs 20-24
Grading requirements (performance standards)	21090(b)-(b)(3)	20650, 21142(a), 21150, 21600(b)(4)(D), 21790(b)(8)(B)	JTD15 PCP Section F.5 pgs 19-19
General post-closure duties	21090(c)-(c)(5)	**re (c)(2):** 21150, 21160, 21180, 21790(b)(8)(F) // **re (c)(4):** 21600(b)(8)(F)	JTD15 PCMP Section C pgs 3-14
Landfill closure deadline & extension	21090(d)	21110, 21790(b)(8), 21800(c)	JTD15 PCP Section F.1 pg 16
Final cover survey(s)	21090(e)-(e)(4)	21142(b)	JTD15 PCP Section F.6 pg 19-20
Optional clean closure	21090(f)-(f)(2)	21810	
§21132. Landfill Emergency Response Plan Review.	§21132		JTD14 Section S.2 pgs 57-58; Figure 1; Appendices H & I
§21400. Closure Requirements for Surface Impoundments.	§21400		
§21410. SWRCB - Closure Requirements for Waste Piles.	§21410		
Chapter 4. Documentation and Reporting For Regulatory Tiers, Permits, WDRs, and Plans Subchapter 3. Development of Waste Discharge Requirements (WDRs) and Solid Waste Facility Permits Article 2. CIWMB - Applicant Requirements.			
§21585. SWRCB - Joint Technical Document (JTD). [format for submittal of §21710, §21750, §21760 information]	21585		JTD14 Section C.12 pgs 22-25, Section U pgs 61-62
Article 4. SWRCB - Development of Waste Discharge Requirements (WDRs) **			
§21710. SWRCB - Report Of Waste Discharge (ROWD) and Other Reporting Requirements. [see also §21585]	21710	re ?(c)(1-2): 21145(b),	JTD14

SWRCB Requirement	SWRCB Citation	Related CIWMB Citation	JTD Page Range(s) Fulfilling SWRCB Citation
		21200, 21630	
§21720. SWRCB - Waste Discharge Requirements (WDRs).	21720(d-f)	re ?(f): 20510, 20515	JTD14 Appendix C
§21730. SWRCB - Public Participation. [proposed listing of potentially interested parties]	21730(a)		
§21740. SWRCB - Waste Characteristics.	21740	re ? (a)(1): 21600(b)(2)(A) & (b)(7)(E)	JTD14 Section B pgs 2-10
§21750. SWRCB - Waste Management Unit (Unit) Characteristics and Attributes to be Described in the ROWD.			
Analysis of potential for impairment	21750(a)	21600(b)(4)(A)	JTD14 Section K pgs 32-36, Section L pgs 36-40, and Section P pgs 47-50
Support for proposed Unit classification	21750(b)	21600(b)(4)(A)	JTD14 Section C.11 pg 21-22 Section C.12 pgs 22-25
Listing & incorporation of supporting documents	21750(c)	21600(b)(4)(A)	
Topographic map	21750(d)(1)	21600(b)(4)(A)	JTD14 Drawings A, B, &C; JTD15 PCP and PCMP Drawings A, B, &D
Floodplain analysis	21750(d)(2)-(d)(2)(C)2.	21600(b)(4)(A)	JTD14 Section L.2 pgs 37-38
Climate	21750(e)-(e)(6)	21600(b)(4)(A)	JTD14 Section C.9 pg 17-18
Geology	21750(f)-(f)(7)	21600(b)(4)(A) // re (f)(5): 21145, 21790(b)(8)(B)	JTD14 Sections J pgs 30-32
Hydrogeology	21750(g)-(g)(7)(D)	21600(b)(4)(A)	JTD14 Section K pgs 32-36, Appendix L
Land/Water Use	21750(h)-(h)(5)	21600(b)(4)(A) re ¶(h)(4): 21600(b)(3)(E)	JTD14 Figures 2, 4, & 8
Preliminary closure plan	21750(i)		JTD14 Section R pgs 55-56; JTD15 PCP
§21760. SWRCB - Design Report and Operations Plan.			
Design Report ? preliminary and as-built plans	21760(a)(1)		JTD15 PCP
Design Report	21760(a)(3)-(a)(4)		JTD15 PCP
Operation Plan	21760(b)-(b)(3)		JTD15 PCP
Subchapter 4. Development of Closure/Post-Closure Maintenance Plans §21769. SWRCB - Closure and Post-Closure Maintenance Plan Requirements.			
Prelim. Cl/P-Cl Plan purpose	21769(b)(1)		JTD15 PCP & PCMP
Prelim. Cl/P-Cl Plan Contents cost analysis	21769(b)(2)-(b)(2)(B)5.		JTD15 PCP & PCMP Appendix I
Final Cl/P-Cl Plan	21769(c)-(c)(2)(H)3.		

SWRCB Requirement	SWRCB Citation	Related CIWMB Citation	JTD Page Range(s) Fulfilling SWRCB Citation
Chapter 5. Enforcement Article 4. Enforcement by Regional Water Quality Control Board (RWQCB) **			
§22190. SWRCB - Mandatory Closure (Cease and Desist Orders).	22190(b)		
Chapter 6. Financial Assurances at Solid Waste Facilities and at Waste Management Units for Solid Waste Subchapter 2. Financial Assurance Requirements Article 1. Financial Assurance for Closure			
§22207. SWRCB - Closure Funding Requirements.	22207(a)		JTD14 Appendix Q JTD15 PCP Section G.2 pg 31
Article 2. Financial Assurance for Postclosure Maintenance			
§22212. SWRCB - Post-Closure Funding Requirements.	22212(a)		JTD15 PCMP Section D.2 pg 14-15
Article 4. Financial Assurance Requirements for Corrective Action			
§22222. SWRCB - Corrective Action Funding Requirements.	22222		JTD14 Appendix Q

BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT # 15

Preliminary Closure and Post-Closure Maintenance Plan

In accordance with California Code of Regulations Title 27

December 2025

Prepared by

Owner and Operator

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

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BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT # 15

Preliminary Closure Plan

In accordance with California Code of Regulations Title 27

December 2025

Prepared by

Owner and Operator

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

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BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT NO. 15

Preliminary Closure Plan

December 2025

Badlands Sanitary Landfill
31125 Ironwood Avenue
Moreno Valley, CA 92555

Owner and Operator:	Riverside Department of Waste Resources 14310 Frederick Street Moreno Valley, CA 92553
Prepared By:	Sarah Lunetta Principal Engineer
	Jessie Powell Senior Civil Engineer
	Christian Rodriguez Assistant Engineer
Recommended By:	Jeff Gow Assistant Chief Engineer
Approved By:	Andy Cortez General Manager - Chief Engineer

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BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT NO. 15

Preliminary Closure Plan

December 2025

The material presented in this report was prepared under the supervision and direction of the undersigned.

06/15/2026 — Andy Cortez — Digitally signed by Andy Cortez Date: 2026.06.15 08:04:27 -07'00'

Date

Andy Cortez, General Manager - Chief Engineer
Riverside County Department of Waste Resources

06/12/2026 — Digitally signed by Jeff Gow Date: 2026.06.12 09:05:49 -07'00'

Date

Jeff Gow, Assistant Chief Engineer
Riverside County Department of Waste Resources

06/15/2026 — Digitally signed by Sarah Lunetta Date: 2026.06.15 18:24:24 -07'00'

Date

Sarah Lunetta, Principal Engineer
Riverside County Department of Waste Resources



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BADLANDS SANITARY LANDFILL
Preliminary Closure Plan

TABLE OF CONTENTS

A. INTRODUCTION 2
A.1 Background Information 2
A.2 Regulatory Requirements 2
A.3 Report Purpose 2
B. SITE DESCRIPTION 2
B.1 Site Location 2
B.2 Facility Classification 3
B.3 Land Use 3
B.3.a Post-Closure Land Use 3
B.4 Landfill Limits 3
B.4.a Property Limits 3
B.4.b Landfill Limits 4
B.5 Topography 4
B.5.a Current Topography 4
B.5.b Proposed Final Grades 4
C. GROUNDWATER MONITORING 4
C.1 Monitoring Practice and Reporting 4
C.2 Monitoring Network 5
D. LANDFILL GAS MONITORING AND CONTROL 6
D.1 Gas Control and Monitoring 6
D.2 Enclosed Flare Stations 7
D.3 Gas-to-Energy 7
D.4 Gas Migration 7
D.4.a Perimeter Gas Probe Locations 7
D.4.b Perimeter Gas Probe Sampling 8
D.4.c Groundwater Well Gas Head-Space Sampling 8
D.5 Gas Collection System 9
D.5.a Gas Collection System Description 9
D.5.b Gas Collection System Monitoring 9
D.5.c Gas Condensate Collection 9
D.5.d Gas Condensate Sampling 10
D.6 Gas Emission Monitoring 10
D.6.a Instantaneous Surface Monitoring 10
D.6.b Integrated Surface Sampling 10
D.6.c Ambient Air Sampling 11
D.6.d Structure Monitoring 11
E. NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES) 11
F. CLOSURE ACTIVITIES 11
F.1 Time Frames for Closure 11
F.2 Site Security 12
F.2.a Signs 12
F.2.b Site Access 12
F.3 Structure Removal 12
F.4 Final Cover 12
F.4.a Final Cover Design 12
F.4.b Final Cover Sources 13
F.5 Final Grading 14
F.5.a Minimum and Maximum Grades 14
F.5.b Qualified Professional 15

F.5.c Prompt Incremental Closure 15
F.5.d Settlement and Slopes 15
F.5.e Surveying Monuments 15
F.6 Final Cover Surveys 15
F.6.a Initial Survey and Map 15
F.6.b Five-Yearly Iso-Settlement Map 15
F.7 Phase 2 Expansion and Final Waste Mass Stability Analysis 16
F.7.a Phase 2 Configuration 16
F.7.b Material Parameters 16
F.7.c Design Ground Motions (Accelerograms) 17
F.7.d Method of Analysis 17
F.7.e Results of Stability Analysis and Recommendations 17
F.8 Final Erosion Control and Drainage 18
F.8.a On-Site Drainage Design 18
F.8.b Off-Site Run-On 18
F.8.c Sedimentation, Detention, and Retention Basins 19
F.9 Slope Protection and Erosion Control 20
F.10 Access Roads 20
F.11 Landfill Gas Control 20
F.12 Leachate Control 20
F.12.a Phase I (Canyons 1-4) LCRS 21
F.12.b Phase II LCRS 21
F.13 Recording 22
F.14 Construction Quality Assurance 22
G. CLOSURE COST ESTIMATE 22
G.1 Costs 22
G.2 Financial Assurance 23
H. REFERENCES 23

BADLANDS SANITARY LANDFILL
Preliminary Closure Plan

Figures:
Figure 1 – Vicinity and Fire Station Location Map
Figure 2 – Vicinity Land Use Map
Figure 3 – Badlands Compost Facility Location Map
Figure 4 – Vicinity Zoning Map
Figure 5 – Available Surveying Monuments
Figure 6A – Phase I Liner and Leachate Collection and Removal System Layout
Figure 6B – Phase II Liner and Leachate Collection and Removal System Layout
Figure 7 – Preliminary Closure Construction Schedule
Figure 8 – Groundwater Well Monitoring Locations and Flow Gradient Map
Figure 9A – Phase 1 Gas Collection System and Probe Location Map
Figure 9B - Phase 2 Gas Collection System and Probe Location Map

Appendices:
Appendix A – Groundwater Monitoring Information
Appendix B – Waste Discharge Requirements
Appendix C – Landfill Gas Monitoring and Control Information
Appendix D – Storm Water Pollution Prevention Plan (SWPPP)
Appendix E – Site Capacity Calculations and Analysis
Appendix F – Soil Properties
Appendix G – Final Buildout Stability Analysis
Appendix H – Post-Landfill Hydrology Study
Appendix I – Preliminary Closure and Post Closure Cost Estimates
Appendix J – Financial Documentation
Appendix K – Closed Site Inspection Instructions and Form

Drawings:
Drawing A – Phase I Site Plan
Drawing B – Phase II Site Plan
Drawing C – Waste Mass Final Grading and Drainage Plan
Drawing D – Proposed Southwest Sedimentation Basin Expansion
Drawing E – Northwestern Stockpile Plan
Drawing F – Cycle Park Stockpile Plan
Drawing G – Eastern Stockpile Plan

List of Acronyms

AAS – Ambient Air Sampling
APN – Assessor Parcel Number
ASTM - American Society for Testing and Materials
BMPs – Best Management Practices
CalRecycle – California Department of Resources Recycling and Recovery
CCR – California Code of Regulations
CFR – Code of Federal Regulations
cy – Cubic yards
DMP – Detection Monitoring Program
EA – Environmental Assessment
EAD – Engineered Alternative Design
FID – Flame Ionization Detection
GCL – Geosynthetic Clay Liner
GCS – Gas Collection System
HDPE – High-density perforated and non-perforated polyethylene
H:V – Horizontal: Vertical
ISM – Instantaneous Surface Monitoring
ISS – Integrated Surface Sampling
LCRS – Leachate Collection and Removal System
LEA – Local Enforcement Agency
LFG – Landfill Gas
mph – Miles per hour
MSL – mean sea level
MSW – Municipal Solid Waste
NGVD – National Geodetic Vertical Datum
NPDES – National Pollutant Discharge Elimination System
NOI – Notice of Intent
PCS – Protective Cover Soil
PGM – Processed Green Material
ppm – Parts per million
ppmv – Parts per million per volume
RDSI – Report of Disposal Site Information
RWQCB-SAR – Regional Water Quality Control Board – Santa Ana Region
SCAQMD – South Coast Air Quality Management District
scfm – Standard cubic feet per minute
SEM – Surface Emissions Monitor
SWAT – Solid Waste Assessment Test
SWFP – Solid Waste Facility Permit
SWPPP – Storm Water Pollution Prevention Plan
TAC – Toxic Air Contaminant
TOC –Total Organic Compounds
TVA – Toxic Vapor Analyzer
ULE – Ultra Low Emissions
WDR – Waste Discharge Requirement
WRP – Waste Recycle Park

A. INTRODUCTION

A.1 Background Information

The Badlands Sanitary Landfill is a Class III landfill facility owned and operated by the Riverside County Department of Waste Resources (Department). The facility is located in an unincorporated area of the County of Riverside at 31125 Ironwood Avenue, near the city of Moreno Valley, California.

The Badlands Sanitary Landfill began accepting refuse in 1966 and operated as a burn site until 1970. The landfill currently operates as a cut/fill operation and is estimated for closure in May 2059. This estimate is based on an assumed 4% percent annual growth rate for all incoming tonnage.

A.2 Regulatory Requirements

This report has been prepared as required by and in compliance with the following regulations:

(1) California Code of Regulations, Title 27, Division 2 entitled "Environmental Protection, Solid Waste"
(2) 40 CFR, Part 258, §258.60 entitled "Closure criteria" and §258.61 entitled "Post-Closure care requirements"

A.3 Report Purpose

A Preliminary Closure and Post-Closure Maintenance Plan details methods necessary to close a landfill in a manner that will assure long term protection to the public health and environment and to ensure that adequate resources will be available to properly accomplish closure and to maintain the landfill during the post-closure maintenance period.

The following preliminary report is for a complete site closure of the Badlands Sanitary Landfill, located in Riverside County, California. Pursuant to Title 27, CCR Chapter 4, Section 21769(b)(1), the purpose of the preliminary closure and post-closure maintenance plan for a Unit is to provide a reasonable estimate of the maximum expected cost that would be incurred at any time during the Unit's projected life for a third party both to close the Unit and to carry out the first thirty years of post-closure maintenance, pursuant to all applicable State Water Resources Control Board (RWQCB) promulgated requirements of this subdivision, including, but not limited to the closure and post-closure requirements under Subchapter 5 of Chapter 3 (section 20950 et seq.).

Pursuant to Title 27, CCR Section 21790, the purpose of the preliminary closure plan is to provide a basis for the operator to establish a preliminary estimate of closure costs certified for accuracy by a registered civil engineer or certified engineering geologist, and enable the California Department of Resources Recycling and Recovery (CalRecycle) to assess the reasonableness of the cost estimate for non-water quality aspects of closure.

B. SITE DESCRIPTION

B.1 Site Location

The Badlands Sanitary Landfill address is 31125 Ironwood Avenue, Moreno Valley, CA 92555. The property is located in unincorporated land within the County of Riverside east of the City of Moreno Valley, as shown on Figure 1. The property currently consists of parcels defined by the following legal description:

> Approximately 70 acres in the E ½ of Section 31 and all of Section 32; T2.S.R.2.W, S.B.B. &M.
>
> Approximately 94.5 acres in the N ½ of Section 6, 147 acres in the N ½ of the W ½ of Section 5, approximately 218 acres in the E ½ of Section 5, and approximately 83 acres in the W ½ of Section 4; T.3.S.R.2.W, S.B.B. &M.

The property can also be described as Riverside County Assessor Parcel Numbers (APN) 413-140-030, 413-140-033, 413-140-034, 413-140-036, 413-140-023, 413-140-024, 413-140-025, 422-030-014, 422-030-015, 422-030-011, 422-050-014, 422-030-002, and 422-030-016 as shown on Figure 2.

Access to the site is from Ironwood Avenue via Theodore Street, from Highway 60 east of the City of Moreno Valley as shown on Figure 1. Theodore Street and Ironwood Avenue are two-lane paved secondary roads. Ironwood Avenue terminates at the Badlands Sanitary Landfill entrance where the gate-fee booth and scales are located.

B.2 Facility Classification

The Badlands Sanitary Landfill designated as a Class III facility, as defined by Title 27 CCR, Section 20240 through 20260, which only accepts non-hazardous municipal solid waste for disposal.

B.3 Land Use

The Badlands Sanitary Landfill property is zoned W-2 (Controlled Development Area). As described in the Riverside County Land Use and Zoning Ordinance No. 348, the W-2 zoning classification identifies "Disposal Service Operations" as being conditionally permitted within this zone. In addition, the Department is a public agency and the project proponent. As a result, the proposed project is deemed a "public project" under the provisions of Section 182.a.b(1) of this ordinance, which states, in part, that "no federal, state, county, or city governmental project shall be subject to the provisions of this ordinance."

Surrounding zoning is shown on Figure 4. The primary zoning designation surrounding the landfill property is W-2 with one parcel zoned R-R (Rural Residential) northwest and adjacent to the landfill property boundary line. There are no structures within 1,000-feet of the site and the nearest structure to the property is a residence located approximately one mile to the southwest of the westerly property line.

Surrounding land use is shown on Figure 2. Lands north and northwest of the site are conserved lands that are vacant (undifferentiated) and cannot be developed. The lands northeast and east of the site are quasi public conserved lands that are currently vacant (undifferentiated) but may be developed at a future date. The lands south, southeast, and southwest of the site are either mountainous, open space, or rural residential. The on-site land use is considered public facilities – solid waste disposal.

B.3.a Post-Closure Land Use

Although not denoted as such by the County General Plan, there is no current post-closure use intended for the landfill site other than as open space. Open space uses include parks, community open space, mining, agricultural uses, and those areas set aside for the preservation and managed production of natural and man-made resources. After closure, the Badlands Sanitary Landfill will be set aside as open space to manage post-closure maintenance. Covering the landfill with processed green material (PGM), as an erosion control cover, will enhance the closed site as an open space.

B.4 Landfill Limits

B.4.a Property Limits

The current Badlands Sanitary Landfill property area is 1,262.5 acres. When the Badlands Sanitary Landfill was opened to the public in 1966, the landfill property area was 1,099 acres. Since the landfill opened, the Department made two additional land purchases. First, in 2003, the Department purchased 75 acres adjacent to the westerly property boundary of the original property. Then, in 2021, the Department purchased 94.53 acres adjacent to the southwest property boundary of the original property.

B.4.b Landfill Limits

Of the entire 1,262.5 acres of this site, the Department has permitted a total of 811 acres to be disturbed, of which 409 acres are set aside for refuse limits as allowed for by EA 2017-03. Drawing A - "Phase I Site Plan" and Drawing B – "Phase II Site Plan" shows the current configuration of the Badlands Sanitary Landfill with the proposed permitted disposal area as well as the locations of all ancillary facilities including, but not limited to access roads, scales, fee collection building, Material Recycling Area, Badlands Compost Facility, and Engineering/Operations Field Office. Drawing C – "Waste Mass Final Grading and Drainage Plan" shows the proposed final grading plan with the proposed disturbance and refuse limits.

The total disposal area footprint prior to October 9, 1993 (in accordance with the requirements of Chapter 40 Code of Federal Regulations [CFR], Subtitle D), was approximately 38 acres and is referred to as the unlined landfill cell. The unlined landfill cell is within the 409 proposed refuse limits. The remaining 371 acres must be lined in accordance with the applicable requirements of Subtitle D and Title 27 CCR.

The vertical limit of the landfill is 2,460 feet above MSL (NGVD 1929) as shown on Drawing C - "Waste Mass Final Grading and Drainage Plan".

B.5 Topography

B.5.a Current Topography

While the site is active, the Department prepares topographic maps from aerial photographs annually. The topography represented in the Drawings and Figures, unless otherwise stated, is based on the most recent complete site aerial flight, dated November 26, 2024, merged with the January 28, 2025, and April 15, 2025, flights of the Phase 2 Stage 1 Liner Expansion, and the most recent topographical survey performed on September 17, 2025.

B.5.b Proposed Final Grades

Proposed grades for the final cover at this site are shown in Drawing C – "Waste Mass Final Grading and Drainage Plan". The final monolithic cover will be placed over the intermediate cover. Final grading is further discussed in section F.5.

C. GROUNDWATER MONITORING

C.1 Monitoring Practice and Reporting

Groundwater monitoring and reporting complies with Waste Discharge Requirement (WDR) Order No. R8-2025-0006. Groundwater samples are collected and analyzed semi-annually from select monitoring wells. Groundwater samples are analyzed by a laboratory participating in the California State Water Resources Control Board, Environmental Laboratory Accreditation Program. Groundwater elevations are measured and recorded quarterly for select monitoring wells. Groundwater sampling procedures are specified in each Semi-Annual Groundwater and General Site Monitoring Report.

Semi-Annual Groundwater and General Site Monitoring Reports' contents comply with the Monitoring and Reporting Program specified in the WDRs and are submitted semi-annually. Among other information, semi-annual reports include groundwater elevations and groundwater contour maps for both quarters in each reporting period, and a description of the groundwater sampling procedures. Appendix A contains excerpts from most recent groundwater monitoring report, Semi-Annual Groundwater and General Site Monitoring Report (April 1, 2024 – March 31, 2025) and Appendix B contains the WDRs for the Badlands Sanitary Landfill.

C.2 Monitoring Network

A Solid Waste Assessment Test (SWAT) Report for this site was completed in July 1989, as required by Assembly Bill 3525 Section 13273 of the Water Code. Three groundwater monitoring wells, BL-1, BL-2, and BL-3, were constructed at the Badlands Sanitary Landfill at part of the SWAT report.

In 1991, Converse Environmental West prepared a report on the geologic and hydrogeologic conditions at the site. During this investigation, wells BH-1, BH-2, BH-3A, BH-4, BH-5, BH-6, BH-7, BH-8, BH-8A, BH-9, BH-9A, BH-10A, BH-11, BH-12, BH-13, BH-14, BH-15, BH-16, BH-17, and BH-18 were installed. In February 1994, well BD-4 was installed to add an additional down-gradient groundwater monitoring well to the network.

The CRWQCB-SAR approved the Canyon 3 Phase 1 expansion plans, which included the abandonment of groundwater monitoring wells BL-2, BH-5, and BH-10A. In April 1999, the Department abandoned the wells and submitted a report on April 28, 1999.

On April 18, 2001, the Department submitted a letter to the CRWQCB-SAR for review and approval to install three new groundwater monitoring wells at the site. Due to studies being performed around the site at that time, the installation of one of the downgradient wells had to be postponed. In late June 2001, the Department installed wells BH-20 and BH-21. The installation of the third groundwater monitoring well was postponed until a later date.

Due to the Canyon 4, Phase 2 expansion project, the CRWQCB-SAR approved the abandonment of BH-6 on October 4, 2002, and stated that since well BH-6 is not part of the current groundwater monitoring system, the Department did not need to replace BH-6. The Department submitted the Report for Abandonment of Monitoring Well BH-6, prepared by the Department Consultant L.D. Anderson, Inc., to the RWQCB on December 5, 2002.

As part of the next expansion at the site, the Department constructed the Southwest Sedimentation basin at south of the final Canyon 4 liner expansion, Canyon 4 Phase 3 (C4P3). Well BH-7 was located within the project boundaries of the construction of the sedimentation basin. Since well BH-7 was not part of the then current regular monitoring network at the site, the RWQCB-SAR approved well abandonment and the well was subsequently abandoned in November 2007.

In May 2009, three new groundwater monitoring wells, BH-22, BH-23, and BH-24 were installed at the site to further the study of hydrogeologic conditions at the site.

Well BL-1 was located within the project boundaries for the C4P3 Liner Expansion Project. Even though BL-1 was part of the regular monitoring network at the site, the CRWQCB-SAR granted approval to abandon BL-1 on November 16, 2011 because well BH-22 can be used as a down-gradient compliance well in place of BL-1.

To confirm the general downgradient, southerly groundwater flow for the majority of the waste management unit area, on December 14, 2010, the Department proposed to the RWQCB-SAR to incorporate BH-8 into the quarterly groundwater gauging program for the site and cease quarterly groundwater gauging in BH-15 which was approved on April 15, 2011. The groundwater data obtained from BH-8 confirmed the groundwater underlying the site predominantly flows towards the south, generally matching the surface water flow direction within the local canyons. Therefore, on May 31, 2016, the Department proposed to cease groundwater gauging for BH-8 which was approved on July 1, 2016.

To better monitor the hydrogeology at the site, the Department installed well BH-25 in July 2015, after the completion of the C4P3 Liner Expansion Project, on the western portion of the site. The location of BH-25 is included in Figure 8.

Well BH-CP is a former domestic groundwater production well, located on the north side adjacent to the property line. This well was installed at the site, prior to the Department's acquisition of this portion of the landfill property. BH-CP (Cycle Park Well) was rehabilitated in November 2017 and put into service as a non-potable water source for the Department on May 7, 2018.

Due to the expansion project (referred to as C2P5/C3P2) along the northern portion of the landfill, groundwater monitoring well BH-23 was abandoned. The CRWQCB-SAR approved the Department's request to abandon BH-23 on September 26, 2022, and BH-23 was abandoned on March 6, 2023.

The following wells are currently sampled semi-annually and measured quarterly to obtain groundwater levels as part of the Detection Monitoring Program (DMP) at the site: BL-03, BD-04, BH-11, BH-21, BH-22, BH-24, and BH-25. The following wells are measured quarterly to obtain groundwater levels only: BH-20 and BH-CP. Gas Probe 11 is also used to obtain a groundwater level measurement.

Locations for all existing groundwater monitoring wells can be found in Figure 8.

D. LANDFILL GAS MONITORING AND CONTROL

D.1 Gas Control and Monitoring

The current Gas Monitoring and Control Plan, dated May 2009 and included in Appendix C, complies with the requirements of CCR Title 27, Division 2, Subdivision 1, Chapter 3, Subchapter 4, Article 6 and the South Coast Air Quality Management District (SCAQMD) Rule 1150.1 Compliance Plan for the Badlands Sanitary Landfill dated May 1, 2018. The GMCP was approved by the LEA on June 2, 2009 and concurred with by the CIWMB on July 7, 2009. The Department monitors gas migration, gas emission, and gas collection to verify gas control compliance. The Badlands Sanitary Landfill has perimeter probes and a gas collection and control system (GCCS). Gas monitoring and control compliance is regularly reported in Semi-Annual Groundwater and General Site Monitoring Reports, in Quarterly and Annual SCAQMD Rule 1150.1 Monitoring Reports, and in Semi-annual and Annual Facility Title V reports and in Quarterly SCAQMD Rule 1150.1 Monitoring Reports. Perimeter gas detection probe, structure, and groundwater monitoring well gas head space monitoring data is sent quarterly to the LEA.

Current Monitoring Types	Frequency
Perimeter gas probe TOC sample	Quarterly
Perimeter gas probe TAC Sample	Annually
Integrated Surface Sampling (ISS) TOC	Quarterly
Integrated Surface Sampling (ISS) TAC	Quarterly
Instantaneous Surface Monitoring (ISM) TOC	Quarterly
Ambient Air Sampling (AAS) for TAC	Annually
Ambient Air Sampling (AAS) for TOC	Quarterly
Landfill Gas Flare Inlet Sample for TAC	Annually
Landfill Gas Flare Inlet Reading for TOC and H2S	Weekly
Structure Monitoring TOC	Quarterly
Groundwater Monitoring Well Gas Head Space Sampling TOC	Quarterly

For more detailed air monitoring information please refer to excerpts of the third Quarter 2025 Monitoring Report included in Appendix C.

D.2 Enclosed Flare Stations

The flaring system consists of two (2) flares. Flare 2, a John Zink ultra-low emissions flare and designated as the backup flare, is rated at 54.6 MMBTU/HR or 2,000 SCFM. Flare 3, a John Zink ultra-low emissions flare and designated as the primary flare, is rated at 135 MMBTU/HR or 5,500 SCFM. The flares are source tested for emissions annually by a Department vendor that is pre-qualified by SCAQMD.

D.3 Gas-to-Energy

In January 2001, a lean burn internal combustion engine was installed that turned a 1.2MWH generator for direct power sales out to the grid. The unit was 35% electrically efficient and less than 2% of the electricity produced was used to power the flare station and site offices. Changes to SCAQMD Rule 1110.2 Nitric Oxide emission requirements necessitated the need to shut the Gas-to-Energy facility down effective on January 1, 2017. However, the Department paid a compliance flexibility fee, and the facility was operated until September 30, 2017, when it was permanently shut down. Permanent decommissioning and removal of the facility was completed on July 11, 2018. All landfill gas is now flared. The Department is currently conducting research on other beneficial uses for the landfill gas. In the future, alternative beneficial reuse of the gas may be utilized.

D.4 Gas Migration

Lateral landfill gas migration is influenced by factors including path-of-least resistance and other soil properties, and atmospheric conditions. The semi-arid climate reduces the production of landfill gas and gas pressure within the landfill, two factors that decrease the probability of lateral migration. The Department regularly collects samples from below-ground probes located at or near the landfill footprint to detect landfill gas migration.

All probes are located in the San Timoteo bedrock formation, which consists of alternating hard, non-water bearing, low permeability, and low hydraulic conductivity beds of sandstone, conglomerate, and siltstone with trace calcium carbonate cementation (SWAT 1989). Past experiences of drilling probes, groundwater monitoring wells, and excavations, show that the San Timoteo Formation is less permeable and less conductive with depth. Therefore, it is much less likely for landfill gas to migrate off site at deeper depths. In addition, landfill gas will only migrate in un-cemented or poorly undulated sandy layers of the San Timoteo Formation. Landfill gas only migrates laterally through these sandy layers and cannot penetrate vertically or laterally through cemented conglomerates and undulated clayey siltstone layers. The bedding planes of the San Timoteo Formation dip slightly to the west, north-west and east throughout the site. If landfill gas were to somehow not get collected through the gas collection system and migrate through the liner, the gas would escape through the atmosphere from slopes of adjacent valleys within the landfill property. The probe depths were designed taking this information into account and using site specific geologic information. Future probes will be designed using the same methodology.

If additional probes need to be installed or if any of the probes need to be relocated or replaced for any reason, including but not limited to maintaining regulatory compliance or accommodating operational needs, the depths and locations will be selected using the current design methodology and the maximum 1,000-foot spacing requirement.

D.4.a Perimeter Gas Probe Locations

As detailed in the Gas Monitoring and Control Plan, the site has fourteen multi-depth perimeter gas probes (P2R, P3R, P4R, P5, P6, P7R, P8R, P9R, P14, P15, P16, P17, P18, P19, P20 and P21) spaced less than 1,000-feet around the perimeter of the landfill. The locations of the probes are plotted on Figures 9A and

9B and further detail of the probes can be found in Appendix C. The most current probe location map is included in each quarterly Rule 1150.1 Monitoring Report. Additional perimeter probes will be installed, when necessary, as demanded by landfill construction.

The probe depths vary between 5-feet to 265-feet deep. A five-foot (5) bentonite plug is located above each screen. The probes are constructed of 1/2" diameter threaded pipe. Clean coarse sand (Lonestar No. 2) was used as backfill on the screened level of the probes. The remainder of void space in the bore hole is clean fill dirt. The probe nest is protected at the surface by use of a steel monument, bollard or valve box.

D.4.b Perimeter Gas Probe Sampling

Each probe is measured for static pressure, total organic carbon (measured as methane), carbon dioxide, and oxygen using a Landtec GEM-5000 or GEM-2000. This instrument is calibrated at the beginning of each monitoring session using calibration gases recommended by the manufacturer. The vapor in each probe is purged until the readings are stable and representative of the surrounding soil.

When performing gas migration monitoring or sampling for any site with a landfill gas collection system, the Department makes sure that the collection system is operating. The Department does not conduct monitoring or sampling on days of lower or higher than average barometric pressure, such as during low pressure storms or high-pressure Santa Ana wind conditions. This is to ensure that the probe results are representative of the normal operating condition at the site.

All probes with methane concentration of 5% by volume (the lower explosive limit for methane) or greater are sampled for laboratory analysis. When all probes have a methane concentration less than 5%, the probe with the highest methane concentration higher than 1% is sampled. If no probe has a methane concentration greater than 1% during the calendar year, the probe with the lowest oxygen concentration is sampled. A minimum of one sample is taken per year regardless of methane concentration.

Samples are collected using either light sealed Tedlar bags in combination with a negative pressure vacuum chamber or sample pump, or evacuated Summa canisters. Before collecting a sample, the prove vapor is measured with a GEM until the reading is stable for at least 30 seconds. The sample is then collected into a Tedlar sampling bag or a Summa canister, which have holding times of 72 hours and 120 hours, respectively. Samples are protected from light and heat while being delivered to the lab for analysis per SCAQMD procedures. Probe samples are analyzed for fixed gases and SCAQMD Rule 1150.1 Core Group compounds.

Any observation of a probe with methane concentration greater than 5% is reported to the LEA. The Department takes appropriate remediation measures in a timely manner to reduce the methane concentration. Such remediation efforts include: increasing gas flow rate on nearby gas wells; installing additional gas wells, installing additional detection probes; and other remediation techniques.

D.4.c Groundwater Well Gas Head-Space Sampling

The Department monitors the vapor in all groundwater wells on site where the groundwater elevation is below the well screen. Each groundwater well is sealed at the top with a modified rubber gasket attached to a 4-inch diameter PVC cap. One-quarter (1/4) inch tubing is attached to a one-quarter (1/4) inch labcock valve that is screwed into the cap. A one-third (1/3) horsepower GAST diaphragm gas pump is used to purge stagnant head-space gas out of the well casing. A flow meter is used to determine when one casing volume had been purged from the well. The head-space vapor is then continuously monitored for methane and oxygen gas using a Landtec GEM-5000 or GEM-2000. The data is submitted to the LEA no more than 45 days after the quarter ends from which the monitoring was completed.

If the methane concentration is greater than 5%, this is reported to the LEA. The Department takes appropriate remediation measures in a timely manner to reduce the methane concentration. Such remediation efforts include: increasing gas flow rate on nearby gas wells; installing additional gas wells, installing additional detection probes; and other remediation techniques.

D.5 Gas Collection System

Currently there exists a network of piping that collects the landfill gas from the vertical and horizontal gas wells and routes it to the flaring system. The gas extraction wells are located throughout the landfill refuse footprint. Future plans are to continue installing vertical and horizontal gas wells as needed. Typically, six to ten 600- to 1,000-foot-long horizontal wells are installed within the working lift each year. After the horizontal wells are covered with multiple lifts of refuse, a vacuum is applied through the piping network to extract the landfill gas (typically one to two years after installation). In areas where horizontal wells cannot be installed, vertical wells are typically drilled to a total depth of 75% to 90% of the total refuse depth in the vicinity. As of October 2025, the landfill is generating approximately 3,000 SCFM of landfill gas with a methane concentration of 45%.

As allowed for by SCAQMD permits, the gas collection system is routinely augmented based on the monitoring data, landfill expansion, refuse placement in the existing permitted landfill footprint, to accommodate operational needs, and to maintain regulatory compliance. Augmentation includes both installation of new components and relocation of existing components, as necessary. Augmentation of the system may include but is not limited to: adding/relocating header and lateral pipes; adding gas collection wells; adding/relocating tanks; and extending vertical gas wells.

D.5.a Gas Collection System Description

The Department began operation of the landfill gas collection system at the site in January 2001. The collection system consists of vertical collection wells in the unlined portion of the landfill and a combination of vertical and horizontal collection wells in the lined portions. The current collection system consists of 64 active vertical wells, 44 active horizontal wells, and eleven (11) inactive horizontal wells that are connected to the gas collection system. Horizontal wells are not connected to the gas collection system until they produce enough gas, typically one to two years after installation. The gas collection system is shown in Figure 9A/9B . Gas Collection System Monitoring.

Each wellhead has a monitoring and control assembly. All wellheads and collection pipes are inspected and monitored monthly. Each well control valve may be adjusted to control gas flow based on monitoring results to increase landfill gas collection or prevent drawing air into the waste to reduce the risk of a subsurface fire.

D.5.b Gas Collection System Monitoring

Each wellhead has a monitoring and control assembly. All wellheads and collection pipes are inspected and monitored monthly. Each well control assembly may be adjusted to control gas flow based on monitoring results to increase landfill gas collection or minimize the flow of ambient air into the waste.

D.5.c Gas Condensate Collection

Condensate formed in gas collection pipes in the Phase I (Canyons 1-4) area gravity drains to one 10,500-gallon tank (Tank #3) as shown in Figure 6A/6B The Permit to Operate requires vapor from tank vents to be returned to the collection system or filtered through an activated carbon canister. Each tank has a carbon canister filter. The tank farm for Phase I (Canyons 1-4) is installed within a permanent reinforced concrete secondary containment structure on top of Bench P. An overflow tank (another existing 10,000-gallon gravity fed leachate collection tank), that will collect overflow of both gas condensate and leachate is located between the gas condensate collection and leachate collection tanks. Figure 9A/9B shows the

location of all three tanks. In accordance with WDR Order No. R8-2025-0006, the gas condensate system is inspected weekly. Condensate is transferred from the holding tanks and disposed of on the top deck of the lined portion of the landfill with a water truck. All transfer or disposal of gas condensate is logged on field forms. Records are kept in the Department's main office and are submitted in the Semi-Annual Groundwater and General Site Monitoring Reports.

D.5.d Gas Condensate Sampling

The Department takes a condensate sample annually to submit for laboratory analysis and inspects the condensate system weekly as required by WDR Order No. R8-2025-0006. The Department collects the annual condensate sample during the month of October. Laboratory analysis results and historical summary of all detected parameters are submitted to the CRWQCB-SAR in the January. Weekly gas condensate production quantity and gas condensate inspection logs are submitted in each Semi-Annual Groundwater and General Site Monitoring Report.

D.6 Gas Emission Monitoring

D.6.a Instantaneous Surface Monitoring

ISM is performed quarterly using a Toxic Vapor Analyzer (TVA) set in flame ionization detector (FID) mode or a Continuous Emissions Monitor (CEM). Using SCAQMD Rule 1150.1 guidelines, the entire area of the fill is monitored for methane emissions from the surface. The surface area is monitored while walking a pattern of transects divided into 100-foot intervals. The TVA probe tip is held at a distance no greater than three inches from the landfill surface. Any breaches of the landfill cover, including piping penetrations and shrinkage cracks or erosion cuts, are monitored closely for methane emissions.

Concentrations of total organic compounds (TOC) measured as methane readings are recorded on a topographic map at every least every 250-feet including all readings of 200 ppm_v or greater. In addition, any locations where TOC values exceeding 500 ppm_v are recorded with GPS, and a flag is placed at that location on the landfill for future location and remediation. The monitoring team leader notifies landfill operations personnel of any areas exceeding 500 ppmv TOC and remediation measures to be taken. The area is re-monitored, and remediation continues until there are no TOC measurements above 500 ppm_v. A follow-up check is required at ten (10) and thirty (30) days. The ambient level of methane is recorded at the beginning of ISM by holding the wand tip approximately five to six feet from the ground.

D.6.b Integrated Surface Sampling

The SCAQMD Rule 1150.1 Compliance Plan for Badlands allows for route monitoring in lieu of the ISS methods specified in Rule 1150.1. The area within the landfill footprint is divided into 500' by 100' grids. Four (4), 250-foot-long routes are then delineated within each grid. One route per grid is sampled each quarter so that by the end of the year all routes have been sampled.

Route monitoring is only conducted during times when the wind is calm, and the landfill surface is dry. A handheld meter is used to verify that the average wind speed, determined by a 15-minute average, is less than 5-mph, and the instantaneous wind speed is less than 10-mph. Data from a local rain gauge is used to verify that no rain has fallen during the preceding 72-hours.

During route monitoring, the sampler inlet is placed within 3 inches above the landfill surface, and a 3-liter sample is collected in a light sealed tedlar bag while slowly walking the route. Each sample is analyzed for the presence of TOC measured as methane using a Foxboro Toxic Vapor Analyzer set in flame ionization detection mode.

If methane is detected at levels exceeding 25 ppmv within a given route, then ISM is conducted on that route to locate the point source of the emissions so it can be remediated. After remediation is accomplished, an ISM re-test of the area must be conducted within ten days and again at thirty days.

D.6.c Ambient Air Sampling

Ambient air for Toxic Air Contaminant (TAC) samples are collected annually for laboratory analysis of Toxic Air Contaminant (TAC and) and quarterly for Total Organic Compounds (TOC) TOC measurement. Samples are collected in 10-liter Tedlar bags over a 12-hour period, quarterly using samplers constructed as specified by the site's SCAQMD Rule 1150.1 Compliance Plan, at the landfill footprint. Four ambient air samplers are utilized; one set of upwind and downwind samplers for the 12-hours designated as daytime and one set of upwind and downwind samplers for the 12-hours designated as nighttime at the landfill footprint. Samples are not taken within 72-hours of measurable rainfall, when average wind speeds exceed 15-mph for over 30 minutes, or instantaneous wind speeds exceed 25-mph.

D.6.d Structure Monitoring

Due to proximity of the fee booth to the landfill, a gas accumulation prevention system was installed beneath the structure, and it is equipped with a gas sensor and alarm. The system components include perforated 4-inch PVC pipe and a layer of ½-inch gravel, both underlain by a geotextile layer. All detections are reported to the LEA each quarter as needed.

All inhabitable structures are monitored for the presence of methane on a quarterly basis. All inhabitable structures are located off of the landfill footprint. Department staff checks inside and outside of structures with foundations and underneath raised trailers using a TVA set in FID mode. The TVA can measure from 1 ppm to 10,000 ppm (1%) methane. The measurements are recorded on a simplified plan map of the structure.

E. NATIONAL POLLUTANT DISCHARGE SYSTEM (NPDES)

The Badlands Sanitary Landfill is regulated by a statewide general permit that regulates industrial stormwater discharges (Water Quality Order No. 2014-0057-DWQ, General Permit No. CAS000001). As required by the permit, Notice of Intent (NOI) No. 833S00634 has been filed with the State Water Resources Control Board by the Department, and a Storm Water Pollution Prevention Plan (SWPPP), dated June 2023, has been prepared and is included in this document as Appendix D. The SWPPP identifies existing and potential sources of pollution and requires the implementation of best management practices to prevent and reduce these potential pollutants.

As specified in the industrial general permit, the Department performs stormwater discharge observation and sampling at least two times every six months (i.e. twice July through December and twice January through June) from the specified facility discharge locations. The stormwater samples are submitted to a state certified laboratory for analysis. Additionally, monthly inspections of stormwater discharges are performed. An annual evaluation is performed to assess the effectiveness of the SWPPP and make any appropriate modifications to the SWPPP to enhance its effectiveness. The site's NPDES program is evaluated and summarized in an annual report submitted to the RWQCB.

F. CLOSURE ACTIVITIES

F.1 Time Frames for Closure

As calculated in the Badlands Sanitary Landfill December 2025 Report of Disposal Site Information (RDSI) and based on comparison of the Waste Mass Final Grading Plan and September 17, 2025 site topography merged with the northwest plug and the Phase II subgrade, the remaining airspace capacity is approximately 82,400,000-cubic yards. Based on a standard fill to cover ratio of 4.11:1 and in-place compacted refuse

density of 1,522 pounds/cubic yard, it is estimated that as of September 18, 2025, the net remaining disposal (refuse only) capacity is approximately 66,300,000 cubic yards (50,400,000-tons), which would allow for landfill closure in May 2059. Refer to Table 2 – Remaining Capacity Study and Table 3 – Site Life Estimates within Permitted Landfill Footprint in Appendix E for these calculations.

In compliance with Title 27, Final Closure and Post-Closure Maintenance Plans will be submitted two years prior to the anticipated closure date. The Department will begin closure activities thirty days following final receipt of waste at the landfill. Closure construction is estimated to last 266 working days as shown in Figure 7.

F.2 Site Security

F.2.a Signs

One sign (in English and in Spanish) indicating the intended closure date, the location of alternative permitted solid waste management facilities in the area, the location where the Closure and Post-Closure Maintenance Plans are available for viewing, and a local phone number where Department personnel can be reached in case of emergency will be posted at the point of access to the landfill 60 days prior to the last receipt of waste. The sign will remain in place for at least 180 days after the facility closes. Also, a notice will be placed in a local newspaper 30 days prior to the intended closure date indicating the planned closure date and the location of alternative permitted solid waste facilities in the area.

F.2.b Site Access

Access to the site is from Ironwood Avenue via Theodore Road from State Highway 60, approximately one mile east of the City of Moreno Valley as shown on Figure 1. Theodore Street and Ironwood Avenue are two-lane secondary roads. Ironwood Avenue provides a direct route to the gate-fee office and scales.

Unauthorized vehicular access to the landfill site is deterred by fencing and a locked gate. Natural terrain barriers, such as mounds of rock, dirt, drainage channels, and gullies, provide additional control against unauthorized entry. Signs are and will continue to be posted after closure at the landfill entrance warning that trespassing, scavenging, open burning, and dumping of toxic chemicals, explosives, or other hazardous materials are prohibited.

In addition to fencing and terrain, the Department has two 24-hr security cameras which monitors for vehicular access at the site entrance and off-road vehicular access north of the Mechanic's Area as well as a contract with a security guard company to guard the site entrance on weekends.

F.3 Structure Removal

The Engineering/Operations field office, two scales, two flare stations, three temporary hazardous waste material storage sheds, three (3) office trailers, six storage sheds, and a fuel storage tank are located on site, as shown in Drawing A – "Phase I Site Plan". Upon closure of the landfill, the flare stations and one of the temporary waste storage sheds will remain on site. The office trailers, scales, one of the temporary hazardous waste material storage sheds, six storage sheds and the fuel storage tank may be removed during closure. If removed, the fuel storage tank will be properly disposed of in accordance with appropriate regulations. Fuel-impacted soils and demolition waste will be disposed of at approved disposal facilities.

F.4 Final Cover

F.4.a Final Cover Design

Placement of a final cover over the entire landfill surface is required. The final cover inhibits infiltration by water and therefore restricts the formation of leachate, which may cause groundwater contamination.

Both Federal and State standards have been promulgated for landfill cover design. The prescriptive State landfill cover standards prevail as the most conservative minimum standard design.

The prescriptive cover standard design is as follows: a two foot (2ft) foundation layer of compacted material over refuse, a one foot (1ft) low-hydraulic-conductivity compacted to attain permeability equal to the permeability of the bottom liner system ($1x10^{-7}$cm/s), and a one foot (1ft) vegetative cover above the low permeability layer.

Current investigation into final cover performance in the solid waste industry has shown that the prescriptive cover design may not provide the best long-term protection against infiltrating precipitation in the semi-arid climate of Southern California due to the effects of desiccation cracking of the clay layer and differential settlement of refuse with time. As a result of this, regulatory agencies have recommended that a monolithic cover design be considered as an alternative to the layered cap design in this and all future closures. Based on regulatory agency recommendations, the potential failure of a prescriptive cover, and the higher costs of construction and maintenance associated with a traditional prescriptive cover, the Department proposes a monolithic cover design system for the Badlands Sanitary Landfill.

The Department has performed gradation and hydrometer testing on the existing borrow material at the Badlands Sanitary Landfill. The results of the properties of the soil show the material to consist of sufficient fine material (approximately 11.3% silt and 5.4% clay). Copies of the gradation and hydrometer testing results are included in Appendix F. Compared to several other sites with completed monolithic cover studies and field data confirming the gradation work in similar climatic conditions, the existing on-site soil material is expected to perform well without admixture. Further, the cover is preliminarily designed to be five feet thick on the top deck and four feet on the side slopes to provide a conservative preliminary cost estimate. Based on the successful completion of the design, approval, and construction of five monolithic closure projects by the Department, with most sites containing the same or thicker cover sections, it is expected that a monolithic Final Cover at the Badlands Sanitary Landfill shall perform as well or better than the completed closure construction projects to date. The monolithic cover system will be based on the following conservative general design parameters:

- A five (5) foot thick monolithic section on the top deck, which consists of one (1) foot of existing intermediate daily cover and at least four (4) feet of acceptable engineered fill, and a four (4) foot thick monolithic section on the side slopes and benches, which consists of one (1) foot of existing intermediate daily cover and at least three (3) feet of acceptable engineered fill;
- Maximum particle size of three (3) inches; and
- Minimum plant coverage of 20%.

This design has been shown to be more economical and maintenance free when compared to a traditional prescriptive cover, while meeting or exceeding the performance standards set forth in Title 27.

Upon the preparation of Final Closure and Post-Closure Maintenance Plans, the Department will perform a detailed analysis to examine potential designs revisions, including a reduction in thickness if appropriate.

F.4.b Final Cover Sources

Soil properties around the site meet the requirements for final cover as discussed in section F.4.b.i. The Department may take soil from the onsite stockpiles and excavations involved with future liner expansions to use as final cover. The Department has calculated that total soil requirement for daily and intermediate cover for the remaining capacity as 17,000,000-cubic yards, assuming a 4.11:1 fill-to-cover ratio. Final cover soil requirement has been calculated to be 2,200,000-cubic yards for a monolithic cover as described in section F.4.a. The total soil requirement for daily, intermediate, final cover, and liner expansion PCS is approximately 19,200,00-cubic yards. The excavation plan for the Canyon 6 Borrow Area and the

excavation plan for the Phase 2 liner expansion is estimated to generate 31,800,000 cubic yards of material, which meets and exceeds the estimated cover requirements for the Badlands Sanitary Landfill.

F.4.b.i Final Cover Source Material Properties

The Badlands Sanitary Landfill is located on the south-central flank of a range of low hills named "The Badlands" in the northeastern portion of the Peninsular Ranges. The landfill site is located approximately 1.2 miles northeast of the San Jacinto fault zone. Deformation associated with movement along the San Jacinto fault zone has uplifted and tilted sedimentary strata to form "The Badlands". Erosion of the uplifted strata has resulted in deeply incised terrain of narrow canyons and ridges with steep-sided hills. The Badlands Sanitary Landfill is underlain primarily by sedimentary bedrock of the San Timoteo Formation (Pliocene and Pleistocene Age). Relatively thin deposits of Holocene age alluvium occur as infilling along the canyon bottoms, and colluvial deposits occur generally along the sides of the canyons. The thickness of alluvium at the Badlands Sanitary Landfill site is variable, generally ranging from 2 ft to 20 ft. Landslide deposits occur locally in some canyons. The San Timoteo Formation in the vicinity of the site consists of tan to light gray sandstones and conglomerate units interbedded with red brown siltstone units. Though contacts between the various lithologies areas are generally gradational and often undulatory, some well-defined planar contacts occur. Geologic structure within the site is characterized by a southeast plunging, asymmetrical, anticlinal fold. The axis of the San Timoteo anticline passes northwesterly through the site.

Soil development at the Badlands Sanitary Landfill is generally incipient. Thick well-developed soil profiles are not identified at the site. In general, areas that are relatively stable in relation to erosional process will accumulate well-developed soil horizons. However, most areas of the property have undergone severe erosion. The specific soil types on the site are Badlands Alluvium, Metz Loamy Sand, Metz Gravelly Sandy Loam, San Emigidio Fine Sandy Loam, and San Timoteo Loam and Terrace Escarpments. Soil testing results from the Canyon 6 Borrow Area and the future expansions area, are included in Appendix F.

The soil from the future expansion stages of Phase II, as shown on Drawing C – "Waste Mass Final Grading and Drainage Plan", can be used as engineered fill and is acceptable as final foundation cover. Typically, a well-graded material has been shown to perform well as a final cover cap when modeled to determine unsaturated flow characteristics. Although not anticipated, if the analysis of the selected final cover material shows that the material is not well-graded enough to perform as the monolithic layer, a small amount of silt or clay material may be blended with the on-site material to create an acceptable monolithic layer.

A certified engineering geologist or registered civil engineer will design the final cover system. The final grading will be designed by a registered civil engineer. The construction shall be performed under the direction and supervision of a registered civil engineer or certified engineering geologist, including a qualified third-party Quality Assurance/Quality Control consultant.

F.5 Final Grading

F.5.a Minimum and Maximum Grades

The top surface of the landfill, all benching on the landfill, and all borrow areas have been designed with a minimum slope of three percent and a maximum slope of ten percent as required by Title 27, section 21090(b).

The side slopes of the landfill are designed with a maximum slope of 2:1 (H:V), with benching provided at least every fifty (50) vertical feet. Rainfall runoff from the top deck is intercepted by drainage berms and directed to down drains.

F.5.b Qualified Professional

The final grading design has been designed and approved by a registered civil engineer in accordance with applicable State and Federal regulations.

F.5.c Prompt Incremental Closure

No partial closure is planned for this site. As areas reach final configuration, the final lift is covered with a minimum of twelve inches of intermediate cover soil that will also serve as a portion of the foundation layer for the final cover system.

F.5.d Settlement and Slopes

Differential settlement of the relatively flat top surface is difficult to estimate. All grading plans have been designed to prevent ponding and soil erosion due to differential settlement through the use of slope gradients of approximately four (4%) to five (5%) percent when possible. This allows positive drainage to be maintained even if slight differential settlement occurs.

As part of the Post-Closure Maintenance Plan for the landfill, the top deck will need to be inspected and any areas of potential ponding corrected by the placement of additional soil and grading to provide positive drainage. A similar approach will be followed along the side slope benches.

F.5.e Surveying Monuments

As required by Title 27, section 20950(d), at least eight (8) permanent monuments are already in place on solid ground outside of the landfill footprint for use in determining location and elevation of wastes, containment structures, and monitoring facilities throughout the post-closure period. Forty-one (41) existing flight monuments, used for performing aerial photography and photogrammetric mapping of the landfill, are located within property boundaries on solid ground. Eight of which are accessible and usable for topographic surveys. The eight monuments that are accessible and usable for topographic surveys are shown in Figure 5.

F.6 Final Cover Surveys

F.6.a Initial Survey and Map

Upon completion of closure activities as stated in this report, an aerial photographic survey of the landfill area and facility property will be performed using the survey monuments listed in section F.5.e of this report. The mapping results will be displayed at a scale and contour interval sufficient to depict the as-built topography of the landfill site. An as-built topographic map will be submitted to the appropriate regulatory agencies along with the final CQA report.

F.6.b Five-Yearly Iso-Settlement Map

Every five (5) years after completing closure of the Badlands Sanitary Landfill, an iso-settlement map shall be created by the Department, depicting the total change in elevation within the landfill limits, if required to do so by responsible regulatory agencies. This will be done only on areas of the landfill that the responsible regulatory agencies find are likely to undergo differential settlement of such magnitude as to impair either the landfill's containment features or the free drainage of surface flow.

At a minimum, the iso-settlement map shall show the following items: settlement contours printed over current topographic contours, areas where differential settlement is noted since the previous map submittal, and areas of repeated or severe differential settlement.

Depending on the estimated extent of settlement, the Department will use either aerial photographic surveying or ground topographic surveying to develop iso-settlement investigations of areas of concern.

Iso-settlement maps shall be prepared under the supervision of a registered civil engineer or registered geologist.

F.7 Phase 2 Expansion and Final Waste Mass Stability Analysis

The Department contracted with a third-party consultant, Geologic Associates (GLA), to perform geotechnical stability analysis for the Phase 2 Expansion. The report, entitled "Engineering Evaluations of Design, Phase 2 Disposal Area, Badlands Sanitary Landfill, Riverside County, California" (GLA Phase 2 November 2025 report) is included in Appendix G.

F.7.a Phase 2 Configuration

Phase II is located in Canyons 5 and 6, located adjacent to the east of the Phase I/Canyons 1-4 area, and shall be designed to follow the existing flow patterns from north to south. The ridge between Canyons 5 and 6 shall be removed for better stability. The Final Waste Mass Grading Plan shall bridge the Phase I and Phase II areas, over the existing Bench P. The Phase II design contains three termination berms at the southern end of Canyons 5 and 6, with 2:1 slopes. In addition to providing stability to the Final Waste Mass Configuration, the termination berms provide a perimeter access road around the lined Phase II area. The bottom and side liner systems are planned to match the bottom and non-encapsulated slopes of the Canyon 4 Phase 3 (C4P3) liner expansion project completed in 2014.

For the Phase 2 Stage 1 (P2S1) project, the CRWQCB-SAR mandated a minimum 12-inch thick drainage layer with a hydraulic conductivity greater or equal to 1.0 centimeter per second (the previous design required a nine inch (9in) thick drainage layer with a hydraulic conductivity greater or equal to 0.1 centimeter per second). The most recent WDR R8-2025-0006 incorporated the EAD approved in WDR R8-2010-0051.

F.7.b Material Parameters

The table below summarizes the material parameters used in the GLA Phase 2 November 2025 Report.

Material	Unit Weight (PSF)	Friction Angle (Degrees)	Cohesion Intercept (PSF)
Municipal Solid Waste	85	31	900
Engineered Fill	120	33.7	346
San Timoteo Foundation Intact	125	30	450
San Timoteo Foundation Seams	125	17	400
Base Liner System on Floor (Phase II Floor Liner)	90	13	0
Base Liner System on Slopes (Phase II Slopes Liner)	90	8	0

A summary of the results is shown in the table below.

Cross-Section	Cross-Section Location	Stability Criteria (Static / Seismic)	Calculated Values (FS / k_y / Δ)	Stability Criteria Met?
A-A'	Permanent Waste Fill Slope	FS ≥ 1.5 / Δ ≤ 6 inches	2.6 / 0.15 g / 3 inches	Yes
B-B'	Permanent Waste Fill Slope	FS ≥ 1.5 / Δ ≤ 6 inches	2.9 / 0.20 g / <1 inch	Yes
C-C'	Permanent Waste Fill Slope	FS ≥ 1.5 / Δ ≤ 6 inches	2.9 / 0.40 g / <1 inch	Yes
	Permanent Waste Fill Slope	FS ≥ 1.5 / Δ ≤ 6 inches	2.9 / 0.25 g / <1 inch	Yes
D-D'	Permanent Waste Fill Slope	FS ≥ 1.5 / Δ ≤ 6 inches	2.9 / 0.25 g / <1 inch	Yes
E-E'	Permanent Waste Fill Slope	FS ≥ 1.5 / Δ ≤ 6 inches	1.6 / 0.14 g / 4 inches	Yes

F.7.c Design Ground Motions (Accelerograms)

The GLA Phase 2 November 2025 report used design ground motions from the Geologic Associated October 2025 "Update of Seismic Hazard Parameters, Phase 2 Disposal Area, Badlands Sanitary Landfill, Riverside County, California" report (GLA Seismic Update October 2025). The GLA Seismic Update October 2025 report provides updates to the past study, Geosyntec C4P3 July 2012, including updating the distances and moment magnitudes using the Uniform California Earthquake Rupture Forecast (UCERF) model. The previous study, Geosyntec C4P3 July 2012, has a suite of design accelerograms that includes Tabas, Rio Dell, Stone Corral, Santa Teresa Hills and Saratoga Aloha Avenue. All of these accelerograms were recorded in Moment Magnitude 6.9+ earthquakes and meet target spectral content and duration. Other seismic hazard parameters, such as the design earthquake level, are the same as in previous reports. Refer to GLA Seismic Update October 2025 report and the section entitled "Design Ground Motions Accelerograms" in the GeoSyntec C4P3 July 2012 report for further details.

F.7.d Method of Analysis

GLA evaluated the stability of the proposed Phase 2 waste fill slopes using a two-dimensional (2D) limit equilibrium-based approach. In particular, GLA used the Morgenstern and Price (1965) method, as implemented in the computer program SLOPE/W (www.seequent.com), for the static and pseudostatic slope stability evaluations. Outputs were reported as FS for static calculations and yield acceleration of sliding mass (ky) for pseudostatic calculations.

Permanent seismic displacement of permanent slopes was evaluated using results of pseudostatic slope stability analysis (i.e., ky and geometry of the critical failure surface). GLA used the latest iteration of the Bray and Travasarou (2007) method (Bray and Macedo, 2018) to estimate seismic displacement of permanent waste fill slopes.

F.7.e Results of Stability Analysis and Recommendations

The static and seismic stability assessment of Phase II indicates that the static and seismic stability criteria established for this site are met. Refer to the GLA Phase 2 November 2025 report for detailed results and recommendations.

F.8 Final Erosion Control and Drainage

F.8.a On-Site Drainage Design

F.8.a.i Best Management Practices (BMPs)

The Department controls on-site drainage with best management practices (BMPs) that are implemented each year before the rainy season and maintained throughout the rainy season. Typical BMPs include, but are not limited to: straw wattles, silt fence, rip-rap pads, cobble trenches, applied PGM, cobble and earthen berms, bench and slope grades, sandbag check dams, hardscape drains, and sedimentation and retention basins. After each rain event and after the rainy season, the Department's engineering staff assesses the site and evaluates the implemented BMPs. Based on the effectiveness of each BMP, the BMP either remains or is removed and new BMPs are implemented. Each year, the site becomes more effective at reducing erosion and controlling water and sediment flow on-site. This is an ever-evolving process that continually improves the condition of the site and the water released downstream. The Badlands Sanitary Landfill SWPPP, as contained in Appendix D, contains details on the BMPs implemented around the site. BMPs currently in place on site will remain on site before and after closure construction. During closure construction, BMPs within the landfill footprint will be removed and replaced after closure construction. BMPs outside of the landfill footprint that do not impede closure construction will remain in place. Therefore, after closure construction, PGM will be spread on the side slopes and hardscape drains will be installed after final cover construction. Drainage berms on the top deck will be built during the final cover construction.

F.8.a.ii Drainage

As calculated with the Synthetic Hydrograph method, the flow directed to the Phase II Retention Basin from the landfill unit has a tributary area of 365.3 acres and an expected final run-off of 262.8 cubic feet per second (cfs). Site surface drainage control facilities are adequate to contain runoff flows during a 100 year, 24-hour frequency storm. The run-off from Phase I (Canyons 1 – 4) of the landfill unit shall be directed to the proposed Southwest Retention Basin located at the south end of the watershed (as seen in Drawing C – "Waste Mass Final Grading and Drainage Plan"). The run-off from Phase II of the Landfill Unit shall ultimately be directed to the Phase II Retention Basin at the southern end of Canyons 6 and 5/Phase II. Appendix H contains the maps and calculations used for the post-landfill hydrology study. Drainage structures within the refuse footprint that will be in place at final closure will be built in phases as needed during the life of the landfill.

Run-off from the hills a northwestern portion of the landfill property off the waste unit drains into the Western Stockpile Sedimentation Basin. All run-off from the Badlands Compost Facility Shall drain into the Badlands Compost Facility Detention Basin. Drainage is discussed in further detail in section F.8.c.

Prior to closure, the drainage structures located off the landfill footprint will be built in phases as necessary. They will be in place prior to final closure. At the time of closure construction, only drainage structures within the landfill footprint will need to be constructed, as shown in Drawing C "Waste Mass Final Grading and Drainage Plan".

F.8.b Off-Site Run-On

The surrounding ridges produce minimal off-site run-on to the landfill unit. This run-on is directed to the retention basins as discussed further in section F.8.a

F.8.c Sedimentation, Detention, and Retention Basins

F.8.c.i Existing

There are six existing sedimentation basins on site, all of them are shown on Drawing A – "Phase I Site Map" and Drawing B – "Phase II Site Map". Of the six basins onsite, the Southwest Sedimentation Basin and the Badlands Compost Facility Detention Basin are permanent basins. The Phase 2 Stage 1 (P2S1_ Sedimentation Basin, the Wet Weather Temporary Detention Basin, and the Western Stockpile Sedimentation Basin will not exist at the time of closure. The Southwest Sedimentation Basin is located south of Phase I (Canyon 1-4) and the Badlands Compost Facility Detention Basin is located on the Western Stockpile, west of the Phase I area. All run-off from Phase I (Canyons 1-4), except for run-off from the wet-weather areas discharges into the Southwest Sedimentation Basin. The Western Stockpile Sedimentation basin receives run-off water from Western Stockpile, including discharge from the Badlands Compost Facility Basin, and a northern portion of the site that does not include the waste unit. Future development of the landfill may divert some run-off from the waste unit to the Western Stockpile Sedimentation Basin as needed to maintain pre-development flows downstream in accordance with EA No. Badlands 2010-01. The P2S1 Sedimentation Basin is located south of the P2S1 landfill limits and collects surface drainage originating from lined and unlined areas including slopes, roads, and benches, but not including refuse areas.

The construction of the Southwest Sedimentation Basin was completed in October 2008. This sedimentation basin is a permanent site facility and was designed to have capacity for the current site and some future expansion. The Department plans to expand the capacity of the Southwest Sedimentation basin to contain runoff from a multi-day storm without release in compliance with the Industrial General Permit WDR 2014-0057-DWQ. The sedimentation basin employs a skimmer system that floats on top of the water and drains water from the top of the water surface (the water layer with the least amount of suspended sediment) to the natural ephemeral stream south of the basin. Within the basin limits, cobble berms and fences with filtering geosynthetic material act as a baffle system to collect sediment and to slow the velocity of the water and sediment in order to increase sediment settling and decrease the number of suspended solids exiting the property.

The construction of the Badlands Compost Facility Detention Basin was completed in September 2025 and is a permanent site facility. Water sheet flows off the Badlands Compost facility and is directed into the basin through berms. The sedimentation basin spillway is a concrete trapezoidal channel that drains to an existing concrete drainage channel. The drainage channel conveys the water into the Western Stockpile Sedimentation Basin.

The construction of the Western Stockpile Sedimentation Basin was completed in January 2014. A drainage system consisting of berms, concrete drains and inlets, and riprap pads transport water into the basin. The sedimentation basin employs a skimmer system that floats on top of the water and releases water from the surface (where there is the least amount of suspended sediment) through a sub-surface pipe to the natural ephemeral stream south of the basin.

F.8.c.ii Proposed

As part of the future liner expansions, the Department proposes construction of three (3) new permanent sedimentation basins to capture non-landfill flows and maintain pre-development flow downstream of the final waste mass. The Department proposes construction of the following three (3) new permanent retention basins to capture landfill flows: the expansion of the Southwest Sedimentation Basin to a retention basin, construction of a retention basin off of Ironwood to collect stormwater from the proposed site entrance improvements, and construction of one (1) retention basin south of Phase II to collect storm water runoff from the Phase II waste mass final buildout.

F.8.c.iii Percolation Basins

In October 2014, RWQCB staff approved the Landfill Wastewater Management Plan (LWMP) for Badlands Sanitary Landfill. The objective of the LWMP is to isolate and capture stormwater that may have come into contact with refuse (i.e. wastewater) for percolation over lined units onsite in order to achieve compliance with the IGP. Percolation basins were located within the liner limits and allowed infiltration of wastewater. Percolation was constrained by allowing no more than 50% moisture content in the wastes below the basin to maintain stability. The increased leachate production aided in waste decomposition and was monitored in the LCRS system. The practice of using percolation basins to collect and percolate wastewater ceased after June 2025.

F.8.c.iv Wet Weather Temporary Detention Basins

The Department starting using a temporary detention basin to collect landfill wastewater with the 2025/2026 winter season. A detention basin was constructed over a lined portion of the landfill and the bottom of the detention basin was constructed with two feet (2ft) of engineered fill compacted to 90% maximum compaction to prevent percolation of wastewater into the waste mass. Wastewater collected in the basin shall be used for dust control in the lined area of the site.

F.9 Slope Protection and Erosion Control

Protection against run-off from precipitation is provided by maintaining drainage grade on terraces and constructing berms and drains or ditches to channel and collect run-off from the landfill in a sedimentation or retention basin. Once collected in the basin, the sediment is allowed to settle out of the water for a minimum of 72-hours before the water is released downstream. Several Best Management Practices (BMPs), including, but not limited to silt fences, sandbags, gravel/rock entrances, and straw waddles are available for use as necessary to provide erosion control as described in the site's SWPPP. A copy of the June 2021 Badlands Sanitary Landfill SWPPP is included in Appendix D. A complete description of the surface drainage system and site hydrology is presented in section F.8.a

F.10 Access Roads

Asphalt access roads shall be constructed around the footprint of the landfill. Crushed base or soil-cement access roads will be constructed around the site to provide all weather access to landfill support and monitoring systems, such as sedimentation/retention basins, groundwater monitoring wells, gas probes, and any other portion of the site the Department deems necessary for all weather access. Access roads to be in place at the time of closure are shown in Drawing C – "Waste Mass Final Grading and Drainage Plan".

F.11 Landfill Gas Control

During and after closure, gas monitoring and control equipment will remain onsite and will continue to be operated as described in section D of this report and in accordance with applicable regulations and as required by the SCAQMD and the Local Enforcement Agency (LEA).

F.12 Leachate Control

Due to the arid climate in the Badlands area, leachate generation is limited. The Department has instituted the following measures to further minimize the production of leachate:

- Diversion of run-on drainage around the landfill,
- Control of on-site drainage to reduce infiltration rate, and
- Placement of daily cover to minimize direct contact of refuse with rainwater and grading to prevent ponding within the landfill area.

The Department conducts weekly inspections of the LCRS and includes copies of leachate inspection field logs in the semi-annual groundwater and general site monitoring reports. Copies of the leachate inspection field logs are included in the Badlands SWPPP, which is Appendix D. The quantity of leachate produced is included in the semi-annual groundwater and general site monitoring reports groundwater monitoring reports and the LCRS Annual Report in compliance with WDR No. R8-2025-0006 and CCR Title 27 Section 20340(h).

Department employees conduct monthly visual site inspections for signs of leachate seepage and report the inspection to the RWQCB. If leachate seepage is identified, the Department will cooperate with the RWQCB to agree on reasonable and practical solution to treat and dispose of the material.

Since the Department expands the LCRS with each liner expansion, no additional LCRS construction will be necessary during closure construction. During and after closure, LCRS monitoring and control will continue to be conducted in accordance with applicable regulations and as required by the RWQCB and the Local Enforcement Agency (LEA).

F.12.a Phase I (Canyons 1-4) LCRS

In 1993, in conjunction with the liner installation, a Leachate Collection and Removal System (LCRS) was installed in the Canyon 1 Phase 1 expansion area. The LCRS has been expanded, during subsequent liner expansion projects and currently encompasses all of Phase I (Canyons 1-4). The system consists of a network of high-density perforated and non-perforated polyethylene (HDPE) collection pipes draining by gravity to a sump. The leachate is then pumped from the sump to leachate collection tanks contained within a permanent concrete secondary containment system located on Bench P at the southernmost point of Phase I lined area, as shown in Figure 6A.

From 1993 through 1998, the LCRS terminated at two sumps at the toe of Canyons 1 and 2. In 1998, during a liner expansion, the sumps were removed and the system was converted to drain by gravity into two 5,000-gallon tanks with secondary containment. In February 2000, during the Canyon 3 Phase 1 expansion, the Department installed three 10,500-gallon tanks within a concrete secondary containment structure.

In 2007, due to access issues during inclement weather, the Department switched the LCRS at the site from drain by gravity to a pump system. The leachate drains into a sump and then is pumped to a collection tank within a permanent concrete secondary containment, south of the C4P3 lined area. The current location of the collection tank has all weather vehicle access.

The Department completed the construction of the LCRS associated with C4P3 Liner Expansion Project in November 2014. The final termination of the LCRS, as built during the C4P3 Liner Expansion Project, consists of three permanent leachate tanks installed on Bench P within a permanent secondary containment structure. Leachate is pumped by a sump to the permanent leachate tanks on Bench P at the southernmost point of the Phase I lined area. This is the final leachate collection system configuration for Phase I (Canyons 1-4). The NW Berm and the C2P5/C3P2 liner expansion feeds into the existing LCRS system. No additional LCRS expansion is required for Phase I (Canyons 1-4). Figure 6A shows the Phase I LCRS layout.

F.12.b Phase II LCRS

The Phase 2 Stage 1 (P2S1) Lined area was completed and approved for landfilling in February 2025. The P2S1 LCRS system is a separate system from the Phase I (Canyons 1-4) LCRS, as shown in Figures 6A and 6B and will be the northern most and upstream section of the complete Phase II LCRS, as shown in Figure 6B. Similar to the Phase I (Canyons 1-4) LCRS, the existing P2S1 LCRS consists of high-density

polyethylene perforated collection pipes draining by gravity to a low elevation point in the system, where it is then pumped up to a leachate storage tank. Unlike the Phase I (Canyons 1-4) bottom liner system, which was designed to have a low spot running through the middle of the bottom liner system, the P2S1 bottom liner system was designed without a flowline. To ensure that the leachate is efficiently directed to the low spot, three lateral collection lines, also consisting of perforated high-density polyethylene pipes, run west to east across the bottom liner system and connect into the header collection line that runs along the eastern toe of the bottom liner system. The LCRS header line terminates a low spot where the leachate is then pumped up to a leachate storage tank.

Gravel windows consisting of gravel wrapped in geotextile were installed over both the header and lateral lines in the P2S1 lined area. The windows connect the gravel drainage layer to the top of the operational layer, creating a pathway for the leachate to travel straight from the waste mass to the gravel drainage layer without needing to pass through the bottom liner operational PCS layer.

Two new LCRS systems are proposed within the future Phase II liner expansion, consisting of a network of high-density perforated and non-perforated polyethylene (HDPE) collection pipes draining by gravity to low elevation points in the systems, where it will either drain by gravity to or be pumped up to leachate storage tanks. The tanks and secondary containment structure shall be located on an all-weather access road.

F.13 Recording

After completion of closure, a detailed description of the site, including the following items, will be filed with the Recorder of the Riverside County, LEA, and the local agency that has been selected to maintain the county integrated waste management plan:

- The date that closure was completed;
- The boundaries including height and depths of the filled areas;
- The locations where the closure and post-closure plans can be obtained; and
- A statement that the future site usage is restricted in accordance with the post-closure maintenance plan.

F.14 Construction Quality Assurance

The special provisions for the construction of the closure project will include an appendix chapter describing the Construction Quality Assurance Program. The Department will enter into a contract with a third-party quality assurance consultant to monitor the closure construction.

G. CLOSURE COST ESTIMATE

G.1 Costs

Closure cost estimates were determined using the guidelines of Title 27, section 21820, which require the cost estimate to be based on the following assumptions:

- To determine the cost at that point in the landfill's life when closure would be the most expensive;
- To include the activities anticipated for scheduled closure;
- To include the cost of design, materials, equipment, labor, administration and quality assurance necessary;
- To hire a third party to close the landfill in accordance with an approved closure plan; and
- To increase the cost twenty percent (20%) to account for contingencies.

As required by Title 27, section 21820, the preliminary closure cost estimate includes an estimate of the cost to upgrade site security, structure removal, upgrading the landfill monitoring systems (gas, groundwater, and leachate), installing the final cover, and upgrading the landfill drainage and erosion control systems.

The preliminary closure cost estimate for the Badlands Sanitary Landfill is $43,716,019 in 2025 dollars. Appendix I includes a tabulated summary of those costs and calculations used to determine closure costs.

G.2 Financial Assurance

As operator and owner of the Badlands Sanitary Landfill, the Department is accountable for financing the landfill closure costs and, as such, maintains an escrow account within an Enterprise Fund, approved by CalRecycle. This fund is increased annually under a formula established by CalRecycle. Appendix J contains the Riverside Board of Supervisors Resolution No. 90-493, establishing Escrow Agreements for Closure Costs for County-owned landfills.

H. REFERENCES

- Brown and Caldwell, July 1998, Final SWAT Report, Badlands Sanitary Landfill
- California Regional Water Quality Control Board-Santa Ana Region (CRWQCB), Water Quality Control Plan 1995
- Golder Associates Inc, Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate, Badlands Sanitary Landfill, Riverside County, California, SWIS No.: 33-AA-0006, January 2021
- Geologic Associates, Engineering Evaluations of Design, Phase 2 Disposal Area, Badlands Sanitary Landfill, December 2025
- Riverside County Waste Management Department, Report of Disposal Site Information – Badlands Sanitary Landfill, April 2022
- Riverside County Waste Management Department, Hydrogeologic Summary for the Badlands Sanitary Landfill, April 2008
- Riverside County Waste Management Department, Gas Monitoring and Control Plan for the Badlands Sanitary Landfill, May 2009
- Riverside County Waste Management Department, Semi-Annual Groundwater and General Site Monitoring Report (April 1, 2021 – September 30, 2021) for the Badlands Sanitary Landfill.
- South Coast Air Quality Management District, Rule 1150.1 Compliance Plan for Badlands Sanitary Landfill, May 1, 2018

BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT # 15

Preliminary Post-Closure Maintenance Plan

In accordance with California Code of Regulations Title 27

December 2025

Prepared by

Owner and Operator

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

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BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT NO. 15

Preliminary Post-Closure Maintenance Plan

December 2025

Badlands Sanitary Landfill
31125 Ironwood Avenue
Moreno Valley, CA 92555

Owner and Operator:	Riverside County Waste Management Department 14310 Frederick Street Moreno Valley, CA 92553
Prepared By:	Sarah Lunetta Principal Engineer Jessie Powell Senior Civil Engineer Christian Rodriguez Assistant Engineer
Recommended By:	Jeff Gow Assistant Chief Engineer
Approved By:	Andy Cortez General Manager - Chief Engineer

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BADLANDS SANITARY LANDFILL
JOINT TECHNICAL DOCUMENT NO. 15

Preliminary Post-Closure Maintenance Plan

December 2025

The material presented in this report was prepared under the supervision and direction of the undersigned.

6/15/2026
Date

Andy Cortez
Digitally signed by Andy Cortez
Date: 2026.06.15 08:04:45 -07'00'

Andy Cortez, General Manager - Chief Engineer
Riverside County Waste Management Department

06/12/2026
Date

Digitally signed by Jeff Gow
Date: 2026.06.12 09:06:36 -07'00'

Jeff Gow, Assistant Chief Engineer
Riverside County Waste Management Department

06/16/2026
Date

Digitally signed by Sarah Lunetta
Date: 2026.06.16 10:27:07 -07'00'

Sarah Lunetta, Principal Engineer
Riverside County Waste Management Department



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TABLE OF CONTENTS

A. INTRODUCTION 1
A.1 Background Information 1
A.2 Regulatory Requirements 1
A.3 Report Purpose 1
B. SITE DESCRIPTION 1
B.1 Site Location 1
B.2 Facility Classification 2
B.3 Land Use 2
B.3.a Post-Closure Land Use 2
B.4 Landfill Limits 3
B.4.a Property Limits 3
B.4.b Landfill Limits 3
B.5 Topography 3
B.5.a Current Topography 3
B.5.b Proposed Final Grades 3
C. POST-CLOSURE INSPECTION, MONITORING, MAINTENANCE, AND REPORTING 3
C.1 Erosion Control 4
C.2 Leachate Collection and Monitoring 4
C.2.a Phase I (Canyons 1-4) LCRS 4
C.2.b Phase II LCRS 5
C.3 Gas Monitoring 5
C.3.a Gas Migration 6
C.3.b Gas Collection System 6
C.3.c Monitoring and Sampling 7
C.4 Groundwater Monitoring 9
C.4.a Monitoring Practice and Reporting 9
C.4.b Monitoring Network 10
C.5 Final Cover Repair 11
C.6 Drainage System 12
C.7 Site Security 12
C.8 Settlement Analysis 12
C.8.a Initial Survey and Map 12
C.8.b Five-Yearly Iso-Settlement Map 12
C.9 Engineering Inspections 13
D. POST-CLOSURE AND NON-WATER RELEASE CORRECTIVE ACTION COST ESTIMATE 13
D.1 Post Closure Costs 13
D.2 Non-Water Release Corrective Action Plan Costs 13
D.3 Financial Responsibility 13
E. REFERENCES 14

Figures:

Figure 1 – Vicinity Map and Fire Station Location Map
Figure 2 – Vicinity Land Use Map
Figure 3 – Badlands Compost Facility Location Map
Figure 4 – Vicinity Zoning Map
Figure 5 – Available Surveying Monuments
Figure 6A – Phase I Liner and Leachate Collection and Removal System Layout
Figure 6B – Phase II Liner and Leachate Collection and Removal System Layout
Figure 7 – Preliminary Closure Construction Schedule
Figure 8 – Groundwater Monitoring Well Locations and Flow Gradient Map
Figure 9A – Phase 1 Gas Collection System and Probe Location Map
Figure 9B - Phase 2 Gas Collection System and Probe Location Map

Appendices:

Appendix A – Groundwater Monitoring Information
Appendix B – Waste Discharge Requirements
Appendix C – Landfill Gas Monitoring and Control Information
Appendix D – Storm Water Pollution Prevention Plan (SWPPP)
Appendix E – Site Capacity Calculations and Analysis
Appendix F – Soil Properties
Appendix G – Final Buildout Stability Analysis
Appendix H – Post-Landfill Hydrology Study
Appendix I – Preliminary Closure, Post Closure and Non-Water Release Corrective Action Cost Estimates
Appendix J – Financial Documentation
Appendix K – Closed Site Inspection Instructions and Form

Drawings:

Drawing A – Phase I Site Plan
Drawing B – Phase II Site Plan
Drawing C – Waste Mass Final Grading and Drainage Plan
Drawing D – Proposed Southwest Sedimentation Basin Expansion
Drawing E – Northwestern Stockpile Plan
Drawing F – Cycle Park Stockpile Plan
Drawing G – Eastern Stockpile Plan

List of Acronyms

AAS – Ambient Air Sampling
APN – Assessor Parcel Number
CalRecycle – California Department of Resources Recycling and Recovery
CCR – California Code of Regulations
CFR – Code of Federal Regulations
cy – Cubic yards
DMP – Detection Monitoring Program
FID – Flame Ionization Detection
GCS – Gas Collection System
HDPE – High-density perforated and non-perforated polyethylene
ISM – Instantaneous Surface Monitoring
ISS – Integrated Surface Sampling
LCRS – Leachate Collection and Removal System
LEA – Local Enforcement Agency
mph – Miles per hour
MSL – mean sea level
NGVD – National Geodetic Vertical Datum
PGM – Processed Green Material
ppmv – Parts per million per volume
RWQCB-SAR – Regional Water Quality Control Board – Santa Ana Region
SCAQMD – South Coast Air Quality Management District
SEM – Surface Emissions Monitor
SWAT – Solid Waste Assessment Test
SWFP – Solid Waste Facility Permit
SWPPP – Storm Water Pollution Prevention Plan
TAC – Toxic Air Contaminant
TOC –Total Organic Compounds
TVA – Toxic Vapor Analyzer
WDR – Waste Discharge Requirement
WRP – Waste Recycle Park

A. INTRODUCTION

A.1 Background Information

The Badlands Sanitary Landfill is a Class III landfill facility owned and operated by the Riverside County Waste Department of Waste Resources (Department). The facility is located in an unincorporated area of the County of Riverside at 31125 Ironwood Avenue, near the City of Moreno Valley, California.

The Badlands Sanitary Landfill began accepting refuse in 1966 and operated as a burn site until 1970. The landfill currently operates as a cut/fill operation and closure is estimated in May 2059. This estimate is based on an assumed 4% growth rate.

A.2 Regulatory Requirements

This report has been prepared as required by and in compliance with the following regulations:

(1) California Code of Regulations, Title 27, Division 2 entitled "Environmental Protection, Solid Waste"
(2) 40 CFR, Part 258, §258.60 entitled "Closure criteria" and §258.61 entitled "Post-Closure care requirements"

A.3 Report Purpose

A Preliminary Closure and Post-Closure Maintenance Plan details methods necessary to close a landfill in a manner that will assure long term protection to the public health and environment and to ensure that adequate resources will be available to properly accomplish closure and to maintain the landfill during the post-closure maintenance period.

The following preliminary report is for the required 30-year post-closure maintenance of the Badlands Sanitary Landfill, located in Riverside County, California. Pursuant to Title 27, CCR Chapter 4, Section 21769(b)(1), the purpose of the preliminary closure and post-closure maintenance plan for a Unit is to provide a reasonable estimate of the maximum expected cost that would be incurred at any time during the Unit's projected life for a third party both to close the Unit and to carry out the first thirty years of post-closure maintenance, pursuant to all applicable Regional Water Quality Control Board (RWQCB) promulgated requirements of this subdivision, including, but not limited to the closure and post-closure requirements and Subchapter 5 of Chapter 3 (section 20950 et seq.).

Pursuant to Title 27, CCR Section 21790, the purpose of the preliminary post-closure maintenance plan is to provide a basis for the operator to establish a preliminary estimate of post-closure maintenance costs certified for accuracy by a registered civil engineer or certified engineering geologist, and enable the California Department of Resources Recycling and Recovery (CalRecycle) to assess the reasonableness of the cost estimate for non-water quality aspects of post-closure maintenance.

B. SITE DESCRIPTION

B.1 Site Location

The Badlands Sanitary Landfill address is 31125 Ironwood Avenue, Moreno Valley, CA 92555. The property is located in unincorporated land within the County of Riverside east of the City of Moreno Valley, as shown on Figure 1. The property currently consists of parcels defined by the following legal description:

Approximately 70 acres in the E ½ of Section 32 and all of Section 31; T2.S.R.2.W, S.B.B. &M.

Approximately 94.5 acres in the N ½ of Section 6, 147 acres in the N ½ of the W ½ of Section 5, approximately 218 acres in the E ½ of Section 5, and approximately 83 acres in the W ½ of Section 4; T.3.S.R.2.W, S.B.B. &M.

The property can also be described as Riverside County Assessor Parcel Numbers (APN) 413-140-030, 413-140-033, 413-140-034, 413-140-036, 413-140-023, 413-140-024, 413-140-025, 422-030-014, 422-030-015, 422-030-011, 422-050-014, 422-030-002, and 422-030-016 as shown on Figure 2.

Access to the site is from Ironwood Avenue via Theodore Street, from Highway 60 east of the City of Moreno Valley as shown on Figure 1. Theodore Street and Ironwood Avenue are two-lane paved secondary roads. Ironwood Avenue terminates at the landfill entrance where the gate-fee booth and scales are located.

B.2 Facility Classification

The Badlands Sanitary Landfill designated as a Class III facility, as defined by Title 27 CCR, Section 20240 through 20260, which only accepts non-hazardous municipal solid waste for disposal.

B.3 Land Use

The Badlands Sanitary Landfill property is zoned W-2 (Controlled Development Area). As described in the Riverside County Land Use and Zoning Ordinance No. 348, the W-2 zoning classification identifies "Disposal Service Operations" as being conditionally permitted within this zone. In addition, the Department is a public agency and the project proponent. As a result, the proposed project is deemed a "public project" under the provisions of Section 182.a.b(1) of this ordinance, which states, in part, that "no federal, state, county, or city governmental project shall be subject to the provisions of this ordinance."

Surrounding zoning is shown on Figure 4. The primary zoning designation surrounding the landfill property is W-2 with one parcel zoned R-R (Rural Residential) northwest and adjacent to the landfill property boundary line. There are no structures within 1,000 feet of the site and the nearest structure to the property is a residence located approximately one mile to the southwest of the westerly property line.

Surrounding land use is shown on Figure 2. Lands north and northwest of the site are conserved lands that are vacant (undifferentiated) and cannot be developed. The lands northeast and east of the site are quasi public conserved lands that are currently vacant (undifferentiated) but may be developed at a future date. The lands south, southeast, and southwest of the site are either mountainous, open space, or rural residential. The on-site land use is considered public facilities – solid waste disposal.

B.3.a Post-Closure Land Use

Although not denoted as such by the County General Plan, there is no current post-closure use intended for the landfill site other than as open space. Open space uses include parks, community open space, mining, agricultural uses, and those areas set aside for the preservation and managed production of natural and man-made resources. After closure, the Badlands Sanitary Landfill will be set aside as open space in order to manage post-closure maintenance. Covering the landfill with processed green material (PGM), as an erosion control cover, will enhance the closed site as an open space.

B.4 Landfill Limits

B.4.a Property Limits

The current landfill property area is 1,262.5 acres. When the Badlands Landfill was opened to the public in 1966, the landfill property area was 1,099 acres. Since the landfill opened, the Department made two additional land purchases. First, in 2003, the Department purchased 75 acres adjacent to the westerly property boundary of the original property. Then, in 2021, the Department purchased 94.53 acres adjacent to the southwest property boundary of the original property.

B.4.b Landfill Limits

Of the entire 1,262.5 acres of this site, the Department is permitting a total of 811 acres to be disturbed, of which 409 acres are set aside for refuse limits as allowed for by EA 2017-03. Previously, the Department was permitted to disturb 278 acres, of which 150 acres were set aside for refuse limits. Drawing A - "Phase I Site Plan" shows the current configuration of the landfill with the proposed permitted disposal area as well as the locations of all ancillary facilities including, but not limited to access roads, scales, fee collection building, Material Recycling Area, and Engineering/Operations Field Office. Drawing C – "Waste Mass Final Grading and Drainage Plan" shows the proposed final grading plan with the proposed disturbance and refuse limits.

The total disposal area footprint prior to October 9, 1993 (in accordance with the requirements of Chapter 40 Code of Federal Regulations [CFR], Subtitle D), was approximately 38 acres and is referred to as the unlined landfill cell. The unlined landfill cell is within the 409 acre proposed refuse limits. The remaining 371 acres must be lined in accordance with the applicable requirements of Subtitle D and Title 27 CCR.

The vertical limit of the landfill is 2,460 feet above MSL (NGVD 1929) as shown on Drawing C - "Waste Mass Final Grading and Drainage Plan".

B.5 Topography

B.5.a Current Topography

While the site is active, the Department prepares topographic maps from aerial photographs annually. The topography represented in the Drawings and Figures, unless otherwise stated, is based on the most recent complete site aerial flight, dated November 26, 2024, merged with the January 28, 2025, and April 15, 2025, flights of the Phase 2 Stage 1 Liner Expansion, and the most recent topographical survey performed on September 17, 2025.

B.5.b Proposed Final Grades

Proposed grades for the intermediate cover at this site are presented as Drawing C – "Waste Mass Final Grading and Drainage Plan". The final monolithic cover will be placed over the intermediate cover. Final grading is further discussed in section F.5 of the Preliminary Closure Plan.

C. POST-CLOSURE INSPECTION, MONITORING, MAINTENANCE, AND REPORTING

The following sections describe those activities required to inspect, monitor, and maintain the Badlands Sanitary Landfill during the post-closure maintenance period. All maintenance/repairs made during the maintenance period will conform to the approved Final Closure and Post-Closure Maintenance Plans

(FCPCMP). If improvements that differ from the approved FCPCMP are needed, approval of the improvements from the appropriated regulatory agencies shall be obtained prior to implementation.

A post-closure maintenance crew will mobilize semi-annually and after rain events, as required, to perform needed repairs identified by routine inspection and monitoring crews. The post-closure maintenance crew will also respond to emergency repairs, such as damage by fire, earthquake, or other breaches in the closed site.

C.1 Erosion Control

It has been the experience of the Department that, on average, approximately five percent of (5%) of the total area of a closed landfill footprint will need to have PGM reapplied each year for erosion control. Therefore, the Department accounts for the cost of reapplying PGM on 5% of the total area of the proposed closed Badlands Sanitary Landfill footprint.

C.2 Leachate Collection and Monitoring

Due to the arid climate in the Badlands area, leachate generation is limited. The Department has instituted the following measures to further minimize the production of leachate:

- Diversion of run-on drainage around the landfill;
- Control of on-site drainage to reduce infiltration rate, and
- Placement of daily and intermediate cover to minimize direct contact of refuse with rainwater and grading to prevent ponding within the landfill area.

The Department will routinely inspect and monitor the LCRS during the post-closure maintenance period. Department personnel will conduct visual site inspections for signs of leachate seepage and report the inspection to the California Regional Water Quality Control Board – Santa Ana Region (RWQCB). If leachate seepage is identified, the Department will cooperate with the RWQCB to agree on a reasonable and practical solution to treat and dispose of the material.

Currently, the Department disposes of leachate by spraying it on the ground over the lined area of the landfill with a water truck, as permitted in the Waste Discharge Requirements (WDRs) for the Badlands Sanitary Landfill. The Department plans to continue to dispose of leachate in this manner during the post-closure maintenance period.

Other post-closure maintenance operating costs include LCRS maintenance and independent laboratory testing. Department personnel will perform maintenance and sample the LCRS at least sixteen times per year. Results of the inspection and sampling are reported in the semi-annual Groundwater Monitoring Report for Badlands, excerpts of which are included in Appendix A.

C.2.a Phase I (Canyons 1-4) LCRS

In 1993, in conjunction with the liner installation, a Leachate Collection and Removal System (LCRS) was installed in the Canyon 1 Phase 1 expansion area. The LCRS has been expanded, during subsequent liner expansion projects and currently encompasses all of Phase 1 (Canyons 1-4). The system consists of a network of high density perforated and non-perforated polyethylene (HDPE) collection pipes draining by gravity to a sump. The leachate is then pumped from the sump to leachate collection tanks contained within a permanent concrete secondary containment system located on Bench P at the southernmost point of the Phase I lined area, as shown in Figure 6A.

In 2007, due to access issues during inclement weather, the Department switched the LCRS at the site from drain by gravity to a pump system. The leachate drains into a sump and then is pumped to a collection tank within a permanent concrete secondary containment, south of the Canyon 4 Phase 3 (C4P3) lined area, off an asphalt road, which is accessible during any type of weather.

The Department completed the construction of the LCRS associated with C4P3 Liner Expansion Project in November 2014. The final termination of the LCRS, as built during the C4P3 Liner Expansion Project, consists of three permanent leachate tanks installed on Bench P within a permanent secondary containment structure. Leachate is pumped by a sump to the permanent leachate tanks on Bench P at the southernmost point of the Phase I lined area. This is the final leachate collection system configuration for Phase I (Canyons 1-4). The NW Berm will feed and the C2P5/C3P2 liner expansion feeds into the existing LCRS system. No additional LCRS expansion is required for Phase I (Canyons 1-4). Figure 6A shows the Phase I LCRS layout.

C.2.b Phase II LCRS

The Phase 2 Stage 1 (P2S1) Lined area was completed and approved for landfilling in February 2025. The P2S1 LCRS system is a separate system from the Phase I (Canyons 1-4) LCRS, as shown in Figures 6A and 6B and will be the northern most and upstream section of the complete Phase II LCRS, as shown in Figure 6B. Similar to the Phase I (Canyons 1-4) LCRS, the existing P2S1 LCRS consists of high-density polyethylene perforated collection pipes draining by gravity to a low elevation point in the system, where it is then pumped up to a leachate storage tank. Unlike the Phase I (Canyons 1-4) bottom liner system, which was designed to have a low spot running through the middle of the bottom liner system, the P2S1 bottom liner system was designed without a flowline. To ensure that the leachate is efficiently directed to the low spot, three lateral collection lines, also consisting of perforated high-density polyethylene pipes, run west to east across the bottom liner system and connect into the header collection line that runs along the eastern toe of the bottom liner system. The LCRS header line terminates a low spot where the leachate is then pumped up to a leachate storage tank.

Gravel windows consisting of gravel wrapped in geotextile were installed over both the header and lateral lines in the P2S1 lined area. The windows connect the gravel drainage layer to the top of the operational layer, creating a pathway for the leachate to travel straight from the waste mass to the gravel drainage layer without needing to pass through the bottom liner operational PCS layer.

Two new LCRS systems are proposed within the future Phase II liner expansion, consisting of a network of high-density perforated and non-perforated polyethylene (HDPE) collection pipes draining by gravity to low elevation points in the systems, where it will either drain by gravity to or be pumped up to leachate storage tanks. The tanks and secondary containment structure shall be located on an all-weather access road.

C.3 Gas Monitoring

The current Gas Monitoring and Control Plan, dated May 2009 and included in Appendix C, complies with the requirements of CCR Title 27, Division 2, Subdivision 1, Chapter 3, Subchapter 4, Article 6 and the South Coast Air Quality Management District (SCAQMD) Rule 1150.1 Compliance Plan for the Badlands Sanitary Landfill dated May 1, 2018. The GMCP was approved by the LEA on June 2, 2009 and concurred with by the CIWMB on July 7, 2009. The Department monitors gas migration, gas emission, and gas collection to verify gas control compliance. The Badlands Sanitary Landfill has perimeter probes and a gas collection and control system (GCCS). Gas monitoring and control compliance is regularly reported in Semi-Annual Groundwater and General Site Monitoring Reports,

in Quarterly and Annual SCAQMD Rule 1150.1 Monitoring Reports, and in Semi-annual and Annual Facility Title V reports and in Quarterly SCAQMD Rule 1150.1 Monitoring Reports. Perimeter gas detection probe, structure, and groundwater monitoring well gas head space monitoring data is sent quarterly to the LEA.

Current Monitoring Types	Frequency
Perimeter gas probe TOC sample	Quarterly
Perimeter gas probe TAC Sample	Annually
Integrated Surface Sampling (ISS) TOC	Quarterly
Integrated Surface Sampling (ISS) TAC	Quarterly
Instantaneous Surface Monitoring (ISM) TOC	Quarterly
Ambient Air Sampling (AAS) for TAC	Annually
Ambient Air Sampling (AAS) for TOC	Quarterly
Landfill Gas Flare Inlet Sample for TAC	Annually
Landfill Gas Flare Inlet Reading for TOC and H2S	Weekly
Structure Monitoring TOC	Quarterly
Groundwater Monitoring Well Gas Head Space Sampling TOC	Quarterly

For more detailed air monitoring information please refer to excerpts of the third Quarter 2025 Monitoring Report included in Appendix C.

C.3.a Gas Migration

Landfill gas migration is influenced by factors including the non-homogeneous waste mass, soil engineering properties and atmospheric conditions. The semi-arid climate reduces the production of landfill gas and gas pressure within the landfill, two factors that decrease the probability of lateral migration. The Department regularly monitors the subsurface vapor from below-ground probes located at or near the landfill footprint to detect landfill gas migration.

All probes are located in the San Timoteo bedrock formation, which consists of alternating hard, non-water bearing, low permeability, and low hydraulic conductivity beds of sandstone, conglomerate, and siltstone with trace calcium carbonate cementation (SWAT 1989). Past experiences of drilling probes, groundwater monitoring wells and excavations, show that the San Timoteo Formation is less permeable and less conductive with depth. Therefore, it is much less likely for landfill gas to migrate off site at deeper depths. The landfill gas will migrate most easily through un-cemented or poorly undulated sandy layers of the San Timoteo Formation. Landfill gas is prone to migrate vertically or laterally through cemented conglomerates and undulated clayey siltstone layers. The bedding planes of the San Timoteo Formation dip slightly to the west, north-west and east throughout the site.

If additional probes need to be installed or if any of the probes need to be relocated or replaced for any reason, including but not limited to maintaining regulatory compliance or accommodating operational needs, the depths and locations will be selected using the current design methodology and the maximum 1,000-foot spacing requirement.

C.3.b Gas Collection System

A network of piping collects landfill gas from vertical and horizontal gas wells throughout the landfill and routes it to the flaring system. The Department shall continue installing vertical and horizontal gas wells as needed. Typically, six to ten horizontal wells (varying in length from 600

to 1,000 feet) are installed within the working lift each year. After the horizontal wells are covered with multiple lifts of refuse, a vacuum is applied through the piping network to extract the landfill gas (typically one to two (2) years after installation). In areas where horizontal wells cannot be installed, vertical wells are typically drilled to a total depth of 75% to 90% of the total refuse depth in the vicinity. The gas collection system, as it currently exists, is shown in Figure 9.

As allowed for by SCAQMD permits, the gas collection system is routinely optimized based on the monitoring data, landfill expansion, refuse placement in the existing permitted landfill footprint, to accommodate operational needs, and to maintain regulatory compliance. Optimization includes both installation of new components and relocation of existing components, as necessary.

C.3.c Monitoring and Sampling

All components of the landfill gas monitoring and control system at the site, including the landfill gas flares, gas condensate tanks, and perimeter probes will be monitored and sampled according to the following procedures.

C.3.c.i Perimeter Gas Probe Sampling

Each probe is measured for static pressure, total organic carbon (measured as methane), carbon dioxide, and oxygen using a Landtec GEM-5000 or GEM-2000. This instrument is calibrated at the beginning of each monitoring session using calibration gases recommended by the manufacturer. The vapor in each probe is purged until the readings are stable and representative of the surrounding soil.

When performing gas migration monitoring or sampling for any site with a landfill gas collection system, the Department makes sure that the collection system is operating. The Department does not conduct monitoring or sampling on days of lower or higher than average barometric pressure, such as during low pressure storms or high pressure Santa Ana wind conditions. This is to ensure that the probe results are representative of the normal operating condition at the site.

All probes with methane concentration of 5% by volume (the lower explosive limit for methane) or greater are sampled for laboratory analysis. When all probes have a methane concentration less than 5%, the probe with the highest methane concentration higher than 1% is sampled. If no probe has a methane concentration greater than 1% during the calendar year, the probe with the lowest oxygen concentration is sampled. A minimum of one sample is taken per year regardless of methane concentration.

Samples are collected using either light sealed Tedlar bags in combination with a negative pressure vacuum chamber or sample pump, or evacuated Summa canisters. Before collecting a sample, the prove vapor is measured with a GEM until the reading is stable for at least 30 seconds. The sample is then collected into a Tedlar sampling bag or a Summa canister, which have holding times of 72 hours and 120 hours, respectively. Samples are protected from light and heat while being delivered to the lab for analysis per SCAQMD procedures. Probe samples are analyzed for fixed gases and SCAQMD Rule 1150.1 Core Group compounds.

C.3.c.ii Groundwater Well Gas Head-Space Sampling

The Department monitors the vapor in all groundwater wells on site where the groundwater elevation is below the well screen. Each groundwater well is sealed at the top with a modified rubber gasket attached to a 4-inch diameter PVC cap. One-quarter inch tubing is attached to a

one-quarter inch labcock valve that is screwed into the cap. A one-third (1/3) horsepower GAST diaphragm gas pump is used to purge stagnant head-space gas out of the well casing. A flow meter is used to determine when one casing volume had been purged from the well. The head-space vapor is then continuously monitored for methane and oxygen gas using a Landtec GEM-5000 or GEM-2000. The data is submitted to the LEA no more than 45 days after the quarter ends from which the monitoring was completed.

If the methane concentration is greater than 5%, this is reported to the LEA. The Department takes appropriate remediation measures in a timely manner to reduce the methane concentration. Such remediation efforts include: increasing gas flow rate on nearby gas wells; installing additional gas wells, installing additional detection probes; and other remediation techniques.

C.3.c.iii Gas Collection System Monitoring

Each wellhead has a monitoring and control assembly. All wellheads and collection pipes will be inspected and monitored monthly. Each well control assembly may be adjusted to control gas flow based on monitoring results to increase landfill gas collection or minimize the flow ambient air into the waste.

C.3.c.iv Flares

The flaring system consists of two (2) flares. Flare 2, a John Zink ultra-low emissions flare and designated as the backup flare, is rated at 54.6 MMBTU/HR or 2,000 SCFM. Flare 3, a John Zink ultra-low emissions flare and designated as the primary flare, is rated at 135 MMBTU/HR or 5,500 SCFM. The flares are source tested for emissions annually by a Department vendor that is pre-qualified by SCAQMD.

C.3.c.v Gas Condensate Sampling

The Department will collect a gas condensate sample annually for laboratory analysis and inspect the gas condensate system monthly for the post-closure maintenance period. The Department collects the annual condensate sample during the first quarter. Laboratory analysis results, historical summary of all detected parameters, weekly gas condensate production quantity, and gas condensate inspection logs are submitted in each Semi-Annual RWQCB-SAR Groundwater and General Site Monitoring Report.

C.3.c.vi Instantaneous Surface Monitoring (ISM)

ISM Instantaneous surface monitoring (ISM) is performed quarterly using a Toxic Vapor Analyzer (TVA) set in flame ionization detector (FID) mode. The ambient level of methane is recorded at the beginning of ISM by holding the wand tip approximately five to six feet from the ground. In accordance with SCAQMD Rule 1150.1 guidelines, the entire area of the fill is monitored for methane emissions from the surface. The surface area is monitored while walking a pattern of transects divided into 100-foot intervals. The TVA probe tip is held at a distance no greater than three inches from the landfill cover. Any breaches of the landfill cover, such as shrinkage cracks or erosion cuts, are monitored closely for methane emissions.

Total organic compound concentrations (TOC) measured as methane are recorded on a topographic map at least every 250 feet including all concentrations of 200 ppmv or greater. In addition, any locations where TOC concentrations exceed 500 ppmv are recorded with GPS and a flag is placed at that location on the landfill for future remediation. The monitoring team leader notifies landfill operations personnel of any areas exceeding 500 ppmv TOC. The area

is re-monitored and remediation continues until there are no TOC concentrations above 500 ppmv. Follow-up monitoring is required at ten and thirty days to assess the remediation efficacy.

C.3.c.vii Integrated Surface Sampling

The SCAQMD Rule 1150.1 Compliance Plan for the site allows for alternative route monitoring. The area within the landfill footprint is divided into 500-foot by 100-foot grids. Four, 250-foot long routes are then delineated within each grid. One route per grid is sampled each quarter so that by the end of the year all routes have been sampled.

Route monitoring is only conducted during times when the wind is calm and the landfill surface is dry. A handheld meter is used to verify that the average wind speed, determined by a 15-minute average, is less than 5 mph and the instantaneous wind speed is less than 10-mph. Data from a local rain gauge is used to verify that no rain has fallen during the preceding 72 hours.

During route monitoring, the sampler inlet is placed within 3 inches of the landfill surface, and 3 liter sample is collected in a light sealed Tedlar bag while slowly walking the route. Each sample is monitor for the TOC measured as methane using a Toxic Vapor Analyzer set in FID mode.

If the TOC concentration is detected exceeding 25 ppmv within a given route, then ISM is conducted on that route to locate the point source of the TOC concentration so it can be remediated. After remediation is accomplished, an ISM re-test of the area must be conducted within ten days and again at thirty days.

C.3.c.viii Ambient Air Sampling (AAS)

Ambient air samples are collected annually for laboratory analysis of Toxic Air Contaminant (TAC) and quarterly for TOC as methane measurement. Samples are collected in 10-liter Tedlar bags over a 12-hour period, using samplers as specified by the site's SCAQMD Rule 1150.1 Compliance Plan, at the landfill footprint. Four ambient air samplers are utilized; one set of upwind and downwind samplers for the 12 hours designated as daytime and one set of upwind and downwind samplers for the 12 hours designated as nighttime. Samples are not taken within 72 hours of measurable rainfall, when average wind speeds exceed 15 mph for over 30 minutes, or instantaneous wind speeds exceed 25 mph.

C.4 Groundwater Monitoring

C.4.a Monitoring Practice and Reporting

Groundwater monitoring and reporting complies with WDR Order No. R8-2025-0006. Groundwater samples are collected and analyzed semi-annually from select monitoring wells. Groundwater samples are analyzed by a laboratory participating in the California State Water Resources Control Board, Environmental Laboratory Accreditation Program. Groundwater elevations are measured and recorded quarterly for select monitoring wells. Groundwater sampling procedures are specified in each Semi-Annual Groundwater and General Site Monitoring Report.

Groundwater Monitoring reports comply with the Monitoring and Reporting Program specified in the WDRs. Semi-annual reports include groundwater elevations and groundwater contour maps for both quarters in each reporting period. Appendix C contains excerpts from most recent

groundwater monitoring report, Semi-Annual Groundwater and General Site Monitoring Report (April 1, 2025 – September 30, 2025).

C.4.b Monitoring Network

A Solid Waste Assessment Test (SWAT) Report for this site was required by Assembly Bill 3525 Section 13273 of the Water Code and was completed in July 1989. Three (3) groundwater-monitoring wells, BL-1, BL-2, and BL-3, were constructed at the Badlands Sanitary Landfill during this investigation.

In 1991 Converse Environmental West prepared a report on the geologic and hydrogeologic conditions affecting the site. During this investigation wells BH-1, BH-2, BH-3A, BH-4, BH-5, BH-6, BH-7, BH-8, BH-8A, BH-9, BH-9A, BH-10A, BH-11, BH-12, BH-13, BH-14, BH-15, BH-16, BH-17, and BH-18 were installed. In February 1994, well BD-4 was installed to add an additional down-gradient groundwater monitoring well to the network. Boring logs can be found in Appendix A.

The RWQCB-SAR approved the Canyon 3 Phase 1 expansion plans, which included the abandonment of groundwater monitoring wells BL-2, BH-5, and BH-10A. In April 1999, the Department abandoned the wells and submitted a report on April 28, 1999.

On April 18, 2001, the Department submitted a letter to the RWQCB-SAR for review and approval to install three new groundwater monitoring wells at the site. Due to studies being performed around the site at that time, the installation of one of the downgradient wells had to be postponed. In late June 2001, the Department installed wells BH-20 and BH-21. The installation of the third groundwater monitoring well was postponed until a later date.

Due to the Canyon 4, Phase 2 expansion project, the RWQCB-SAR approved the abandonment of BH-6 on October 4, 2002, and stated that since well BH-6 is not part of the current groundwater monitoring system, the Department did not need to replace BH-6. The Department submitted the Report for Abandonment of Monitoring Well BH-6, prepared by the Department Consultant L.D. Anderson, Inc., to the RWQCB on December 5, 2002.

As part of the next expansion at the site, the Department constructed the Southwest Sedimentation basin south of the final Canyon 4 liner expansion, Canyon 4 Phase 3 (C4P3). Well BH-7 was located within the project boundaries of the construction of the sedimentation basin. Since well BH-7 was not part of the current regular monitoring network at the site, the RWQCB approved well abandonment, and the well was subsequently abandoned in November 2007.

In May 2009, the three groundwater monitoring wells, BH-22, BH-23, and BH-24 were installed at the site to further the study of hydrogeologic conditions at the site.

Groundwater monitoring well BL-1 was located within the project boundaries for the C4P3 Liner Expansion Project. Even though BL-1 was part of the regular monitoring network at the site, the RWQCB granted approval to abandon BL-1 on November 16, 2011 because well BH-22 was to be used as a down-gradient well in place of BL-1.

To confirm the general downgradient, southerly groundwater flow for the majority of the waste management unit area, on December 14, 2010, the Department proposed to the RWQCB to incorporate BH-8 into the quarterly groundwater gauging program for the site and cease quarterly groundwater gauging in BH-15 which was approved on April 15, 2011. The groundwater data

obtained from BH-8 confirmed the groundwater underlying the site predominantly flows towards the south, generally matching the surface water flow direction within the local canyons. Therefore, on May 31, 2016, the Department proposed to cease groundwater gauging for BH-8 which was approved on July 1, 2016.

To better monitor the hydrogeology at the site, the Department installed well BH-25 in July 2015, after the completion of the C4P3 Liner Expansion Project, on the western portion of the site. The location of BH-25 is included in Figure 8.

The following wells are currently monitored as part of the Detection Monitoring Program (DMP) at the site: BL-3, BD-4, BH-11, BH-21, BH-22, BH-23, BH-24, and BH-25. The following wells are monitored quarterly to obtain groundwater level measurements only: BH-20, and BH-CP. Gas Probe 11 is also used to obtain a groundwater level measurement.

Well BH-CP is a former domestic groundwater production well, located on the north side adjacent to the property line. This well was installed at the site, prior to the Department's acquisition of this portion of the landfill property. BH-CP (Cycle Park Well) was rehabilitated in November 2017 and put into service as a non-potable water source for the Department on May 7, 2018.

Due to the expansion project (referred to as C2P5/C3P2) along the northern portion of the landfill, groundwater monitoring well BH-23 was abandoned. The CRWQCB-SAR approved the Department's request to abandon BH-23 on September 26, 2022, and BH-23 was abandoned on March 6, 2023.

The following wells are currently sampled semi-annually and measured quarterly to obtain groundwater levels as part of the Detection Monitoring Program (DMP) at the site: BL-03, BD-04, BH-11, BH-21, BH-22, BH-24, and BH-25. The following wells are measured quarterly to obtain groundwater levels only: BH-20 and BH-CP. Gas Probe 11 is also used to obtain a groundwater level measurement.

Locations for all existing groundwater monitoring wells can be found in Figure 8.

C.5 Final Cover Repair

Placement of a final cover over the entire landfill surface is required. The final cover inhibits infiltration by water and therefore restricts the formation of leachate, which may cause groundwater contamination. Both Federal RCRA standards and State standards have been promulgated for landfill cover design. The prescriptive State landfill cover standards prevail as the most conservative minimum standard design.

The prescriptive cover standard design is as follows: a two foot foundation layer of compacted material over refuse, a one foot low-hydraulic-conductivity compacted to attain permeability equal to the permeability of the bottom liner system ($1x10^{-7}$cm/s), and a one foot vegetative cover above the low permeability layer.

Current investigation into final cover performance in the solid waste industry has shown that the prescriptive cover design may not provide the best long-term protection against infiltrating precipitation in the semi-arid climate of Southern California due to the effects of desiccation cracking of the clay layer and differential settlement of refuse with time. As a result of this, the Department utilized the monolithic cover design in 1994 for Coachella Landfill and continued to use this design for the next five landfill closures in Riverside County. Based on experience with both the prescriptive and

monolithic landfill covers, the potential failure of a prescriptive cover, and the higher costs of construction and maintenance associated with a prescriptive cover, the Department proposes a monolithic cover design system for the Badlands Sanitary Landfill.

At the time of closure, a stockpile of surplus acceptable monolithic cover material will be established at the landfill site for final cover repair. During routine inspections, the final cover will be inspected for damage including, but not limited to damage caused by erosion, settlement, and fissuring. If damage is found, a post-closure maintenance crew will be sent to the site to repair the damage to the final cover in accordance with the approved Final Closure Plan.

C.6 Drainage System

Drainage structures, including, but not limited to downdrains, rip-rap pads, channels, and cobble berms will be inspected for damage, settlement, blockage, and erosion. Periodically, drainage structures will be treated for oxidation. Silt and vegetation will be removed from flowlines, and cracks will be repaired. Based on the Department's previous experience with closed site maintenance, it is estimated that approximately 5% of all the drainage structures on-site will need to be repaired each year. Sediment in both the sedimentation and retention basins on-site will need to be removed each year to ensure enough capacity for the next year's rainy season. The cobble rock berms and sediment fence traps located in the Southwest Retention Basin and the Phase II Retention Basin will need to be removed, separated from the collected sediment and replaced in the retention basins. In addition, the Department will maintenance the skimmers (floating devices in basins discharge water from the surface of the basins) as necessary.

C.7 Site Security

Access to the site is from Ironwood Avenue via Theodore Road from State Highway 60, approximately one mile east of the City of Moreno Valley as shown on Figure 1. Theodore Street and Ironwood Avenue are two-lane secondary roads. Ironwood Avenue provides a direct route to the gate-fee office and scales.

Unauthorized vehicular access to the landfill site will be deterred by fencing and a locked gate. Natural terrain barriers, such as mounds of rock, dirt, drainage channels, and gullies, provide additional control against unauthorized entry. Signs will be posted at the landfill entrance warning that trespassing, scavenging, open burning, and dumping of toxic chemicals, explosives, or other hazardous materials are prohibited. Site security will be inspected monthly and addressed as needed. Signs and fencing will be replaced as necessary.

C.8 Settlement Analysis

C.8.a Initial Survey and Map

Upon completion of closure activities as stated in the Preliminary Closure Plan, an aerial photographic survey of the landfill area and facility property will be performed using the survey monuments described in section F.5.e of the Preliminary Closure Plan and shown on Figure 5. The mapping results will be displayed at a scale and contour interval sufficient to depict the as-built topography of the landfill site. Upon completion of the as-built topographic map, it will be submitted to the appropriate regulatory agencies along with the final CQA report.

C.8.b Five-Yearly Iso-Settlement Map

Every five (5) years after completing closure of the landfill, an iso-settlement map shall be created by the Department, depicting the total change in elevation within the landfill limits, if required to

do so by responsible regulatory agencies. This will be done only on areas of the landfill that the responsible regulatory agencies find are likely to undergo differential settlement of such magnitude as to impair either the landfill's containment features or the free drainage of surface flow.

At a minimum, the iso-settlement map shall show the following items: settlement contours printed over current topographic contours, areas where differential settlement is noted since the previous map submittal, and areas of repeated or severe differential settlement.

Depending on the estimated extent of settlement, the Department will use either aerial photographic surveying or ground topographic surveying to develop iso-settlement investigations of areas of concern. Iso-settlement maps shall be prepared under the supervision of a registered civil engineer or registered geologist.

C.9 Engineering Inspections

As discussed in previous sections, engineering inspections will be performed at the site monthly to ensure the ongoing functionality of the site's erosion control, leachate collection and monitoring, gas monitoring and control, groundwater monitoring, final cover, drainage, and site security systems. In order to comply with all applicable codes and regulations, inspections and reports will be prepared and submitted to regulatory agencies as necessary. Appendix K contains instructions on what is to be included in the engineering inspections and a sample inspection form.

D. POST-CLOSURE AND NON-WATER RELEASE CORRECTIVE ACTION COST ESTIMATE

D.1 Post Closure Costs

Maintenance cost estimates were determined using the guidelines of Title 27 Section 21840, which require that the cost estimates cover the costs of hiring a third party to maintain, monitor, and inspect the closed landfill in accordance with post-closure maintenance plan requirements. Estimated in 2025 dollars, the annual post-closure maintenance cost is $797,382 or a total of $23,921,460 for the 30-year post-closure maintenance period. Calculations used to determine post-closure costs are presented in Appendix I.

D.2 Non-Water Release Corrective Action Plan Costs

In accordance with California Code of Regulations (CCR) Title 27, Section 22101 (b)(1)(B), the consultant, Geo-Logic Associates, generated a non-water release corrective action plan cost estimate for the Badlands Sanitary Landfill. The cost estimate for a non-water release corrective action plan for the Badlands Sanitary Landfill is $1,050,244. Geo-Logic Associates April 22, 2026 report is included as Appendix I.

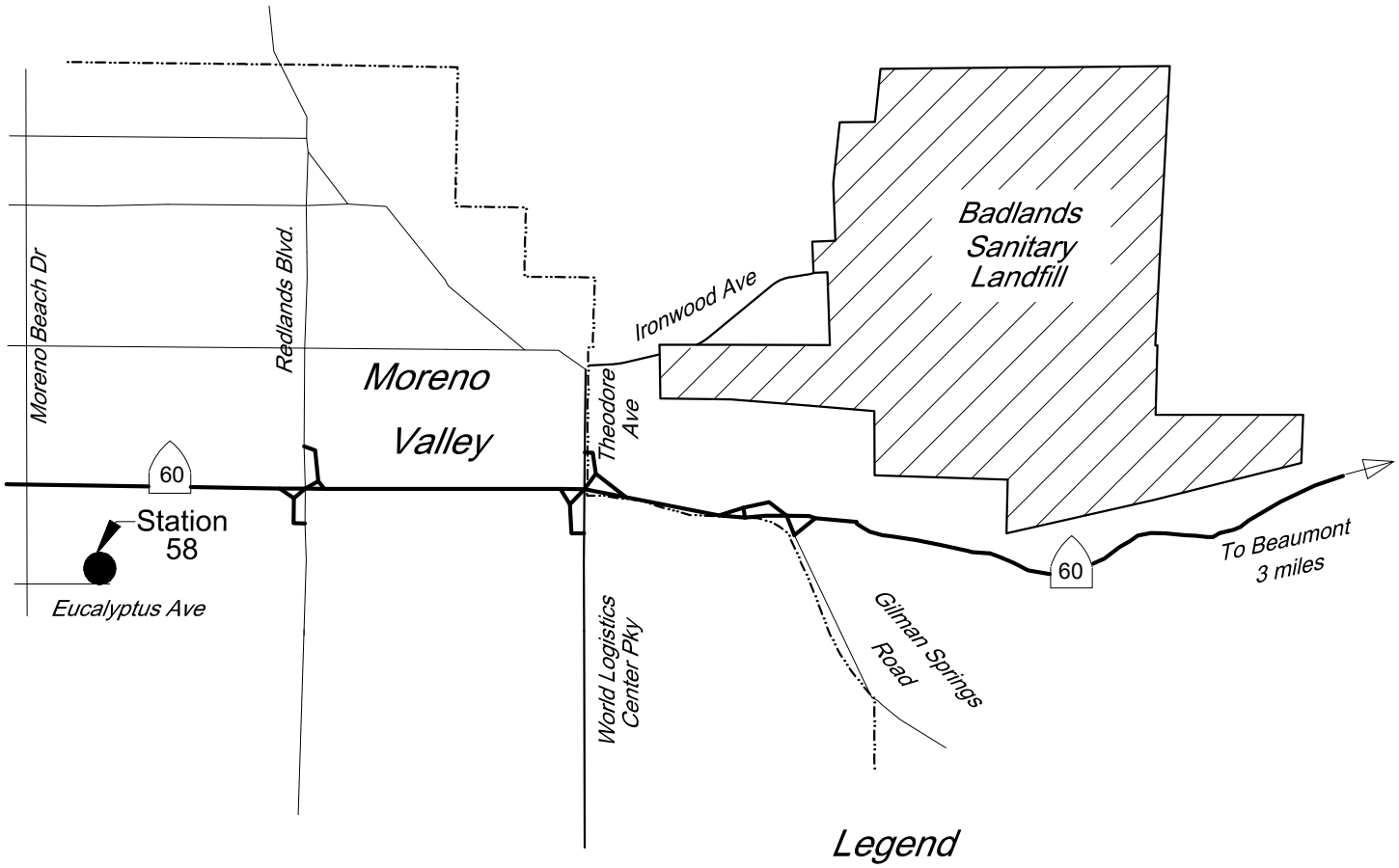
D.3 Financial Responsibility

As operator and owner of the Badlands Landfill, the Department is accountable for financing the landfill closure costs and, as such, maintains an escrow account within an Enterprise Fund, approved by CalRecycle. This fund is increased annually under a formula established by CalRecycle. Appendix J contains the Riverside Board of Supervisors Resolution No. 94-5, establishing Pledge Agreements for Post-Closure Maintenance Costs for County-owned landfills.

E. REFERENCES

- Brown and Caldwell, July 1998, Final SWAT Report, Badlands Sanitary Landfill
- Geologic Associates, Engineering Evaluations of Design, Phase 2 Disposal Area, Badlands Sanitary Landfill, December 2025
- Golder Associates Inc., Non-Water Release Corrective Action Plan and Financial Assurance Cost Estimate, January 2021
- California Regional Water Quality Control Board-Santa Ana Region (CRWQCB), Water Quality Control Plan 1995
- Riverside County Waste Management Department, Report of Disposal Site Information – Badlands Sanitary Landfill, December 2025
- Riverside County Waste Management Department, Gas Monitoring and Control Plan for the Badlands Sanitary Landfill, May 2009
- Riverside County Waste Management Department, Semi-Annual Groundwater and General Site Monitoring Report (April 1, 2021 – September 30, 2021) for the Badlands Sanitary Landfill.
- South Coast Air Quality Management District, Rule 1150.1 Compliance Plan for Badlands Sanitary Landfill, May 1, 2018

Badlands Sanitary Landfill Vicinity and Fire Station Location Map



Legend

- Paved Access Roads
- Freeway (Highway 60)
- Other Roads
- Moreno Valley City Boundary
- Badlands Sanitary Landfill

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager–Chief Engineer

Scale: 1" = 3500'

0 3500 7000 10500

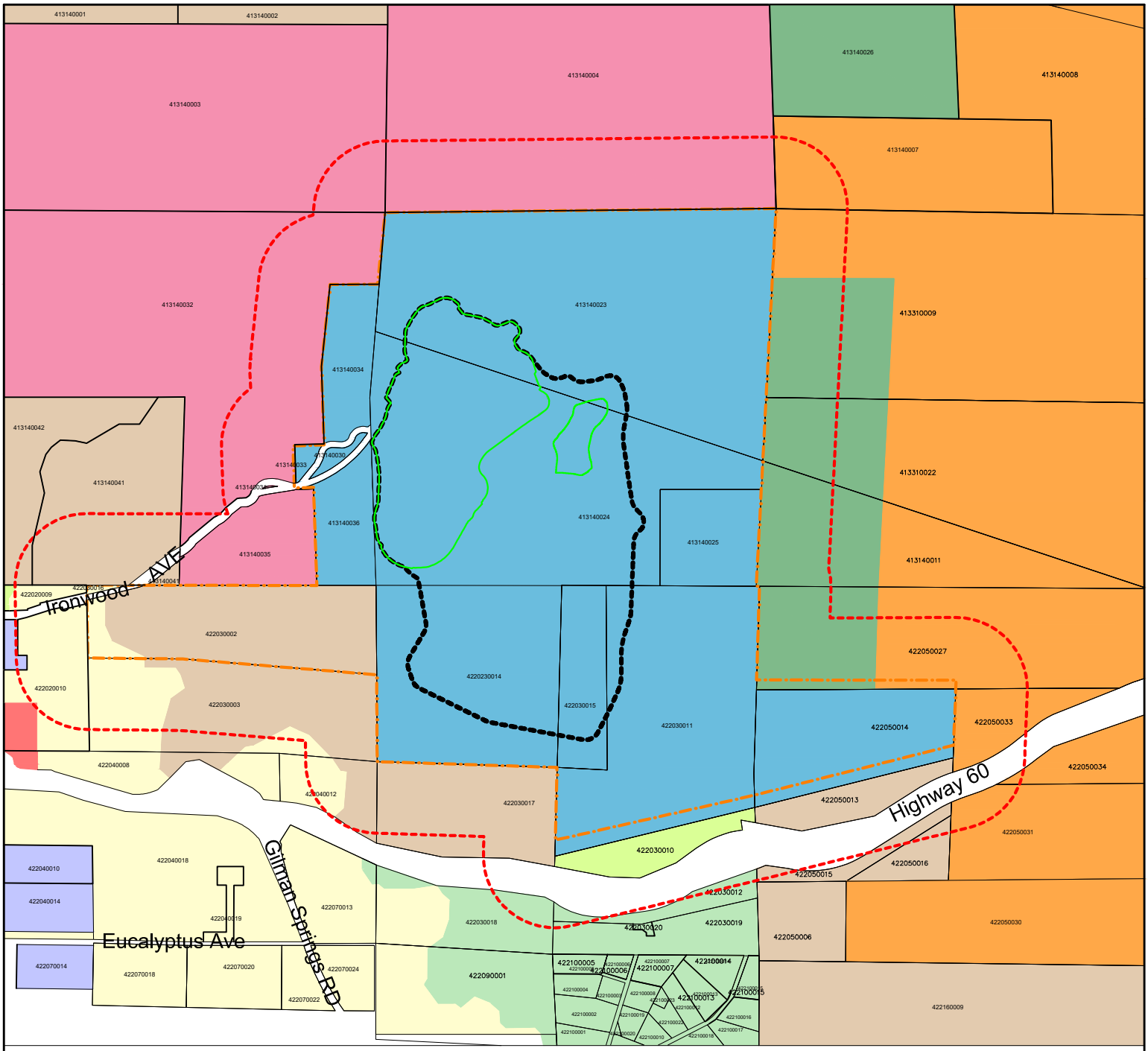
Datum is mean sea level.

Badlands Sanitary Landfill
Figures for PCPCMP

Vicinity and Fire Station Location Map

Figure 1

File:	/sites/badlands/PCPCMP/JTD#15/Figures&Drawings/		Date: Nov. 2025
File:	F-1-Vicinityandfirestationlocation2025.dwg	Photo Date: NA	Scale: 1"=3500'



LEGEND

- Property Line
- 1,000 Feet from Facility Boundary
- Edge of Fill (141 Acres)
- Permited Refuse Foot Print (409 Acres)
- Parcel Boundary
- RCA Conserved Lands
- Public Facilities - Solid Waste Disposal
- Public/Quasi Public Conserved Lands
- Conservation Habitat
- Rural Mountainous
- Rural Community - Very Low Density Residential
- Rural Residential
- Open Space - Rural
- Open Space - Conservation
- Commercial Retail

Note: There are no buildings within 1000' from the property line.

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 2000'

0 2000 4000 6000

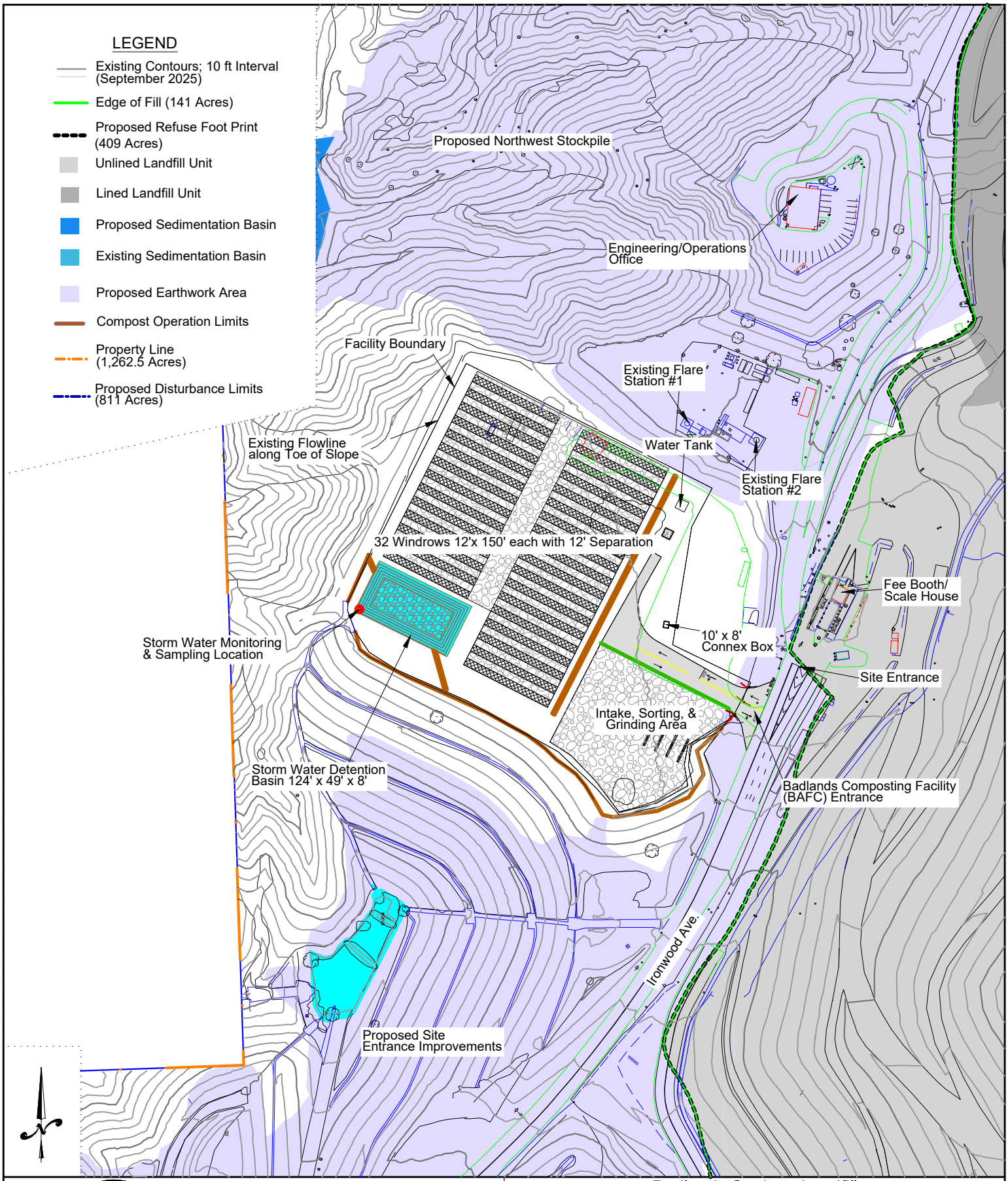
Datum is mean sea level.

Badlands Sanitary Landfill
Figures for PCPCMP

Vicinity Land Use Map

Figure 2

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: Sept. 2025
File: F-2-VicinityLandUse2025.dgn	Photo Date: NA	Scale: 1"=2000'



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 200' (8.5" x 11")

0 100 200 300 400 500

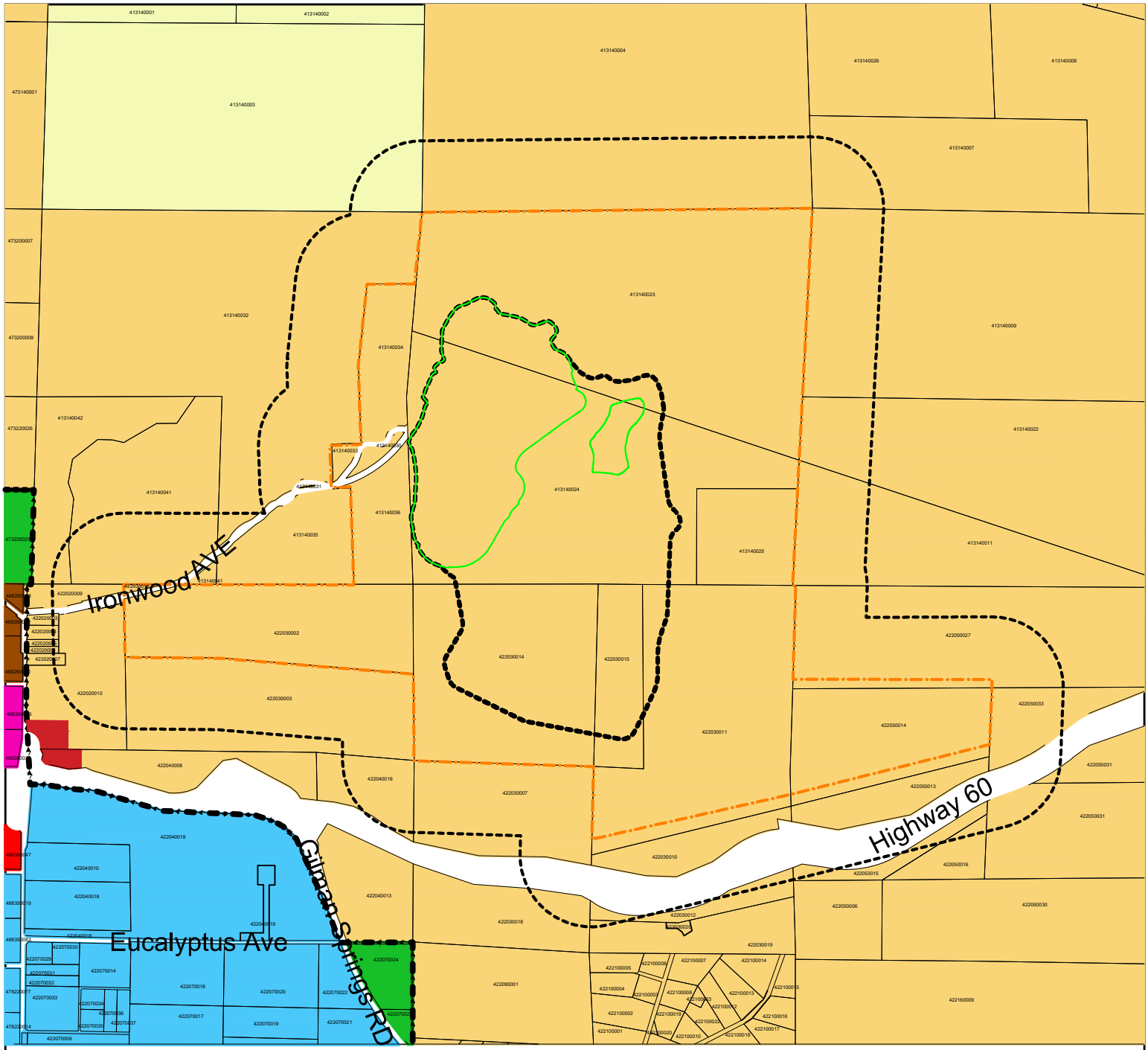
Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

Badlands Compost Facility Location Map

Figure 3

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: November 2025	
File: F-03-GreenwasteLocation2025.dwg	Topo Date: September 2025	Scale: 1"=200'



LEGEND

- Property Line
- 1,000 Feet from Facility Boundary
- Edge of Fill (141 Acres)
- Permited Refuse Foot Print (409 Acres)
- Parcel Boundary
- Moreno Valley City Limit
- R-R (Rural Residential)
- W-2, W-2-1, W-2-10, W-2-20 (Controlled Development Areas)
- R1 (Residential 1)
- HO/C (Highway Office/Commercial)
- LI (Light Industrial/Business Park)
- OS (Open Space)
- CC (Commercial)
- C-P-S (Health Facilities)

Note: Zoning information from the Riverside County GIS Website and City of Moreno Valley Zoning Map

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 2000'

0 2000 4000 6000

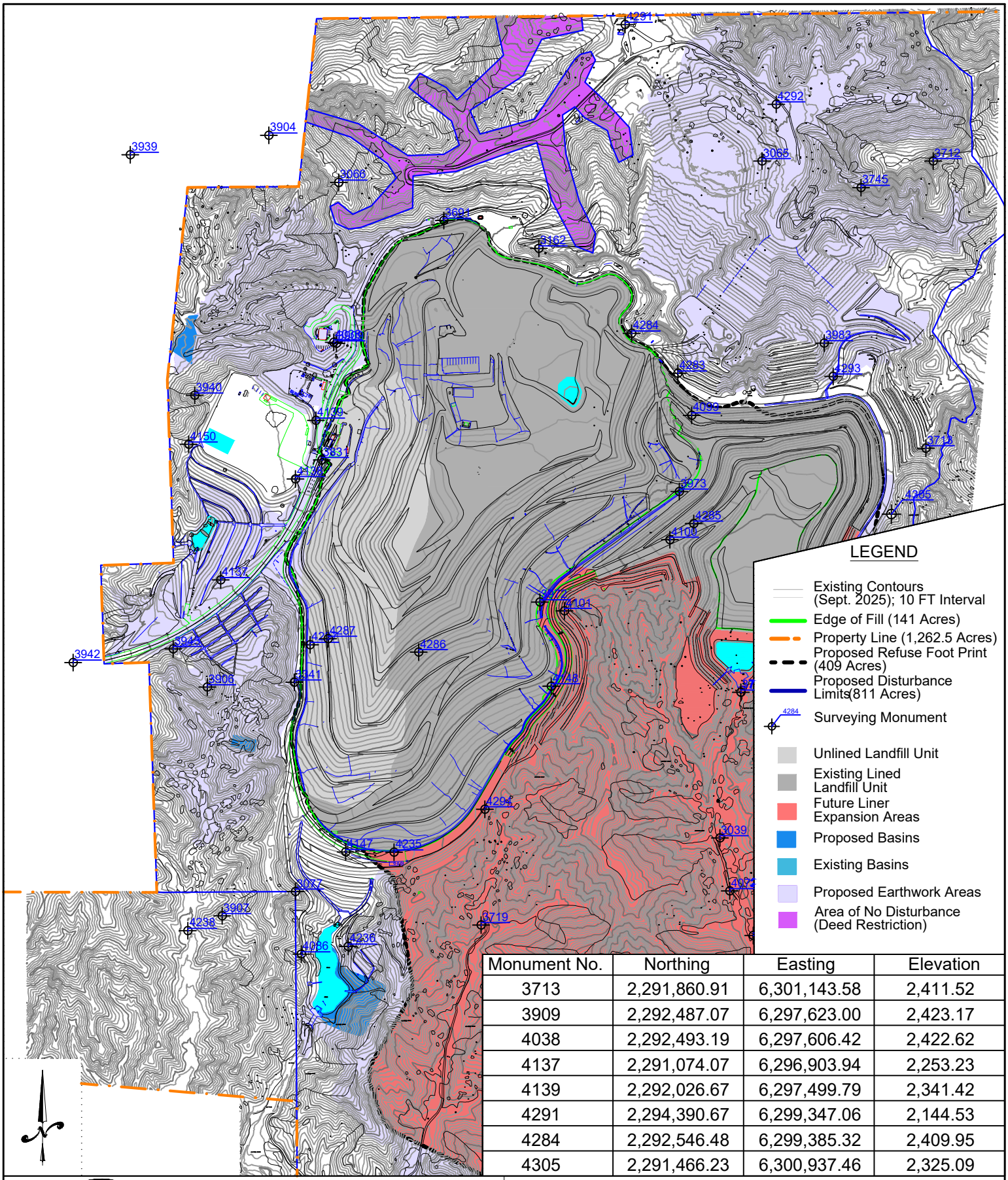
Datum is mean sea level.

Badlands Sanitary Landfill
Figures for PCPCMP

Vicinity Zoning Map

Figure 4

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: Sept. 2025
File: F-04-VicinityZoningMap2025.dgn	Photo Date: NA	Scale: 1"=2000'



Monument No.	Northing	Easting	Elevation
3713	2,291,860.91	6,301,143.58	2,411.52
3909	2,292,487.07	6,297,623.00	2,423.17
4038	2,292,493.19	6,297,606.42	2,422.62
4137	2,291,074.07	6,296,903.94	2,253.23
4139	2,292,026.67	6,297,499.79	2,341.42
4291	2,294,390.67	6,299,347.06	2,144.53
4284	2,292,546.48	6,299,385.32	2,409.95
4305	2,291,466.23	6,300,937.46	2,325.09

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 750' (8.5" x 11")

0 375 750 1125 1500 1875

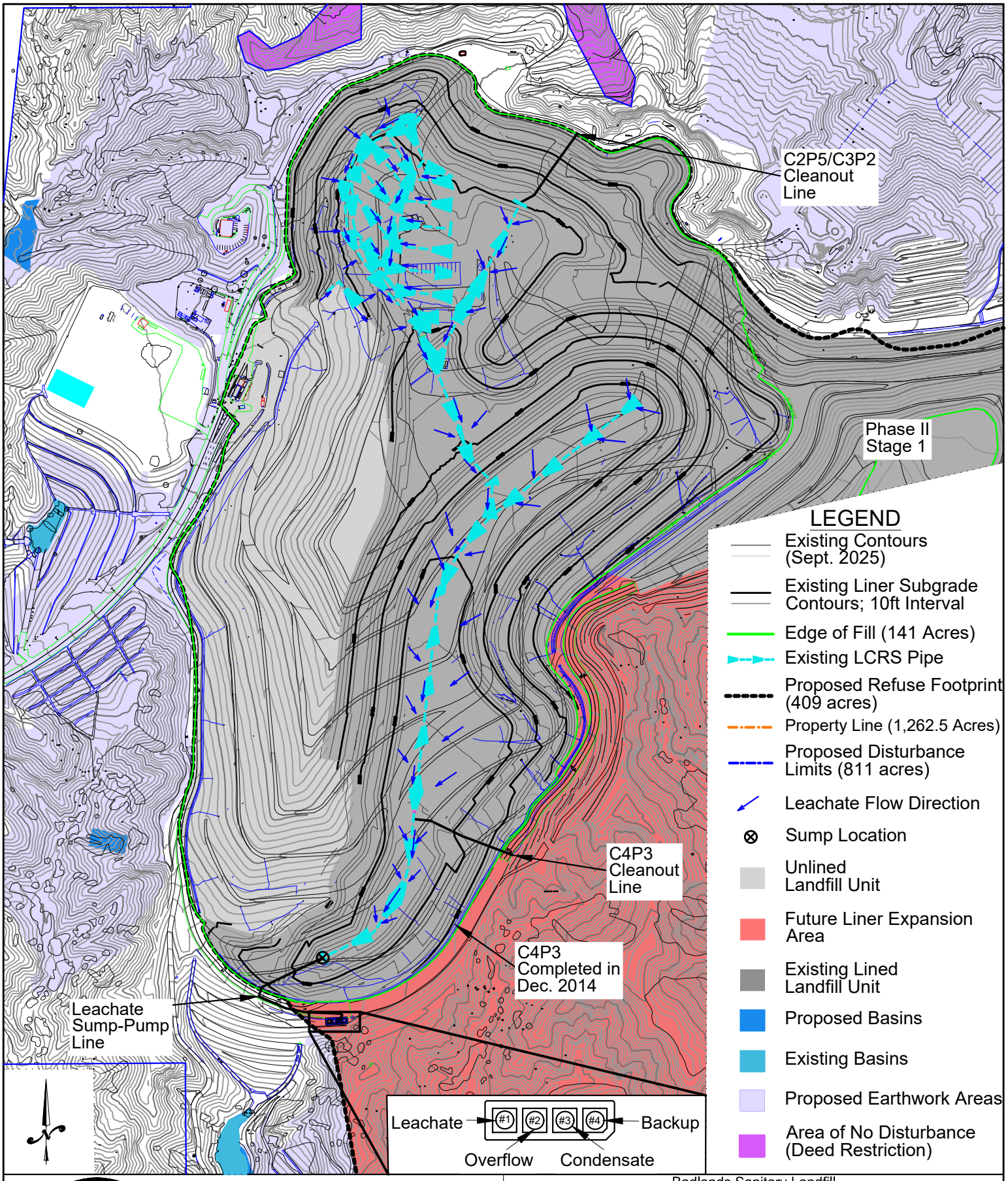
Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

Available Surveying Monuments

Figure 5

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: Nov. 2025	
File: F-05-SurveyingMonuments2025.dwg	Topo Date: Sept. 2025	Scale: 1"=500'



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 500' (8.5" x 11")

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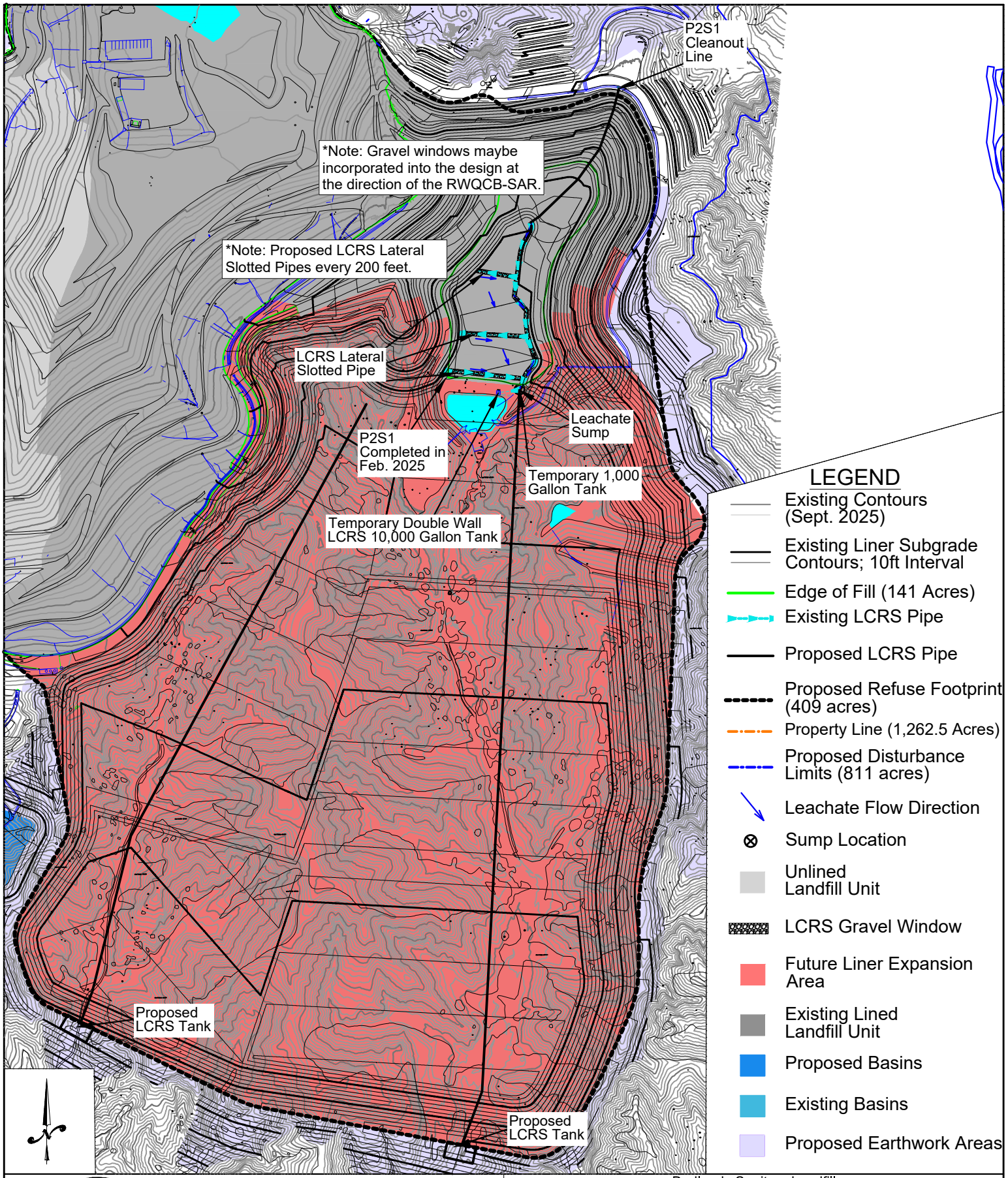
Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

Phase I Liner and Leachate Collection and Removal Layout

Figure 6A

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings		Date: March 2026
File: F-06-Phase1LCRS 2025.dwg	Topo Date: Sept. 2025	Scale: 1"=500'



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 600' (8.5" x 11")

0 300 600 900 1200 1500

Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

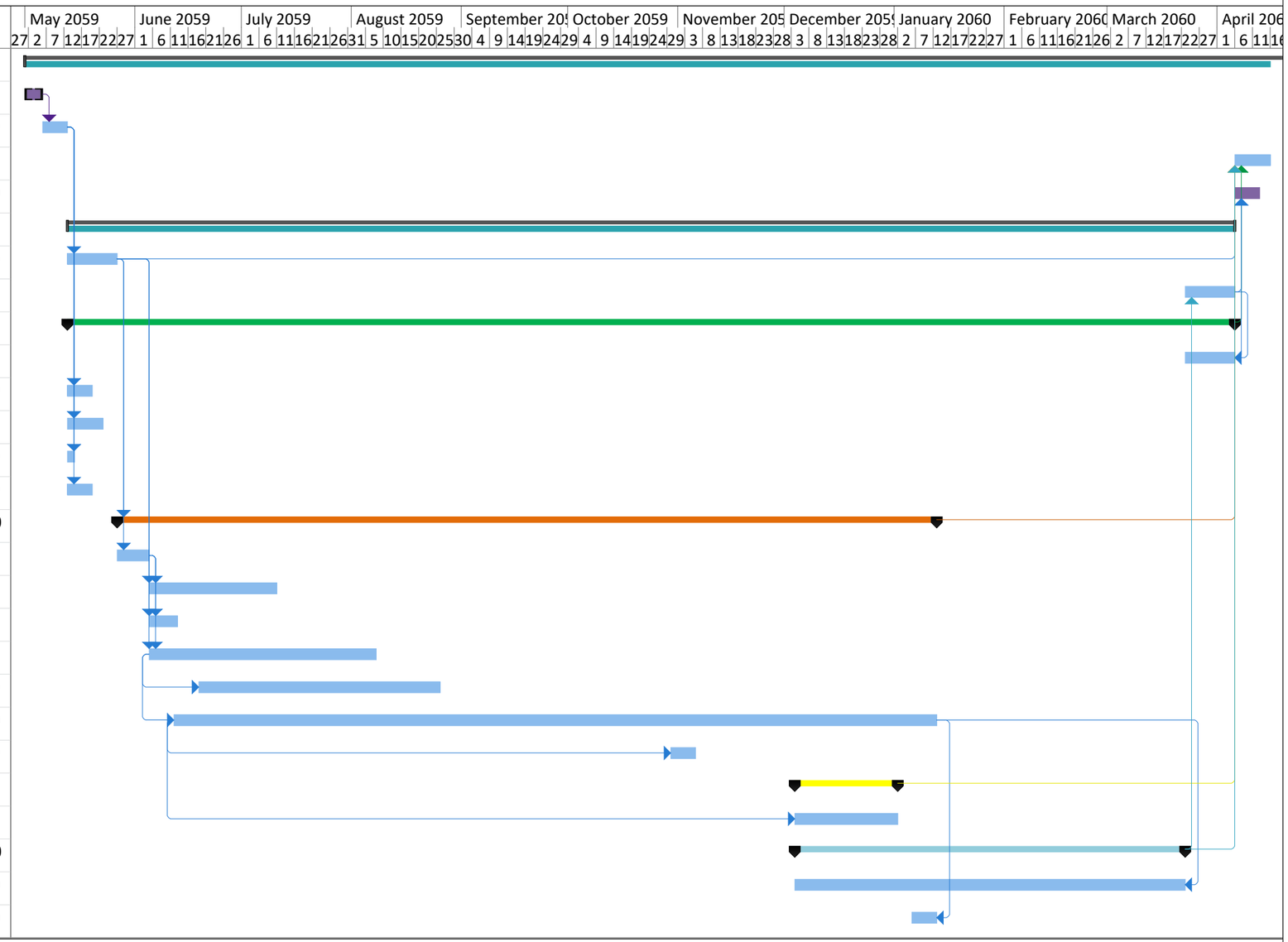
Phase II Liner and Leachate Collection and Removal Layout

Figure 6B

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings		Date: March 2026
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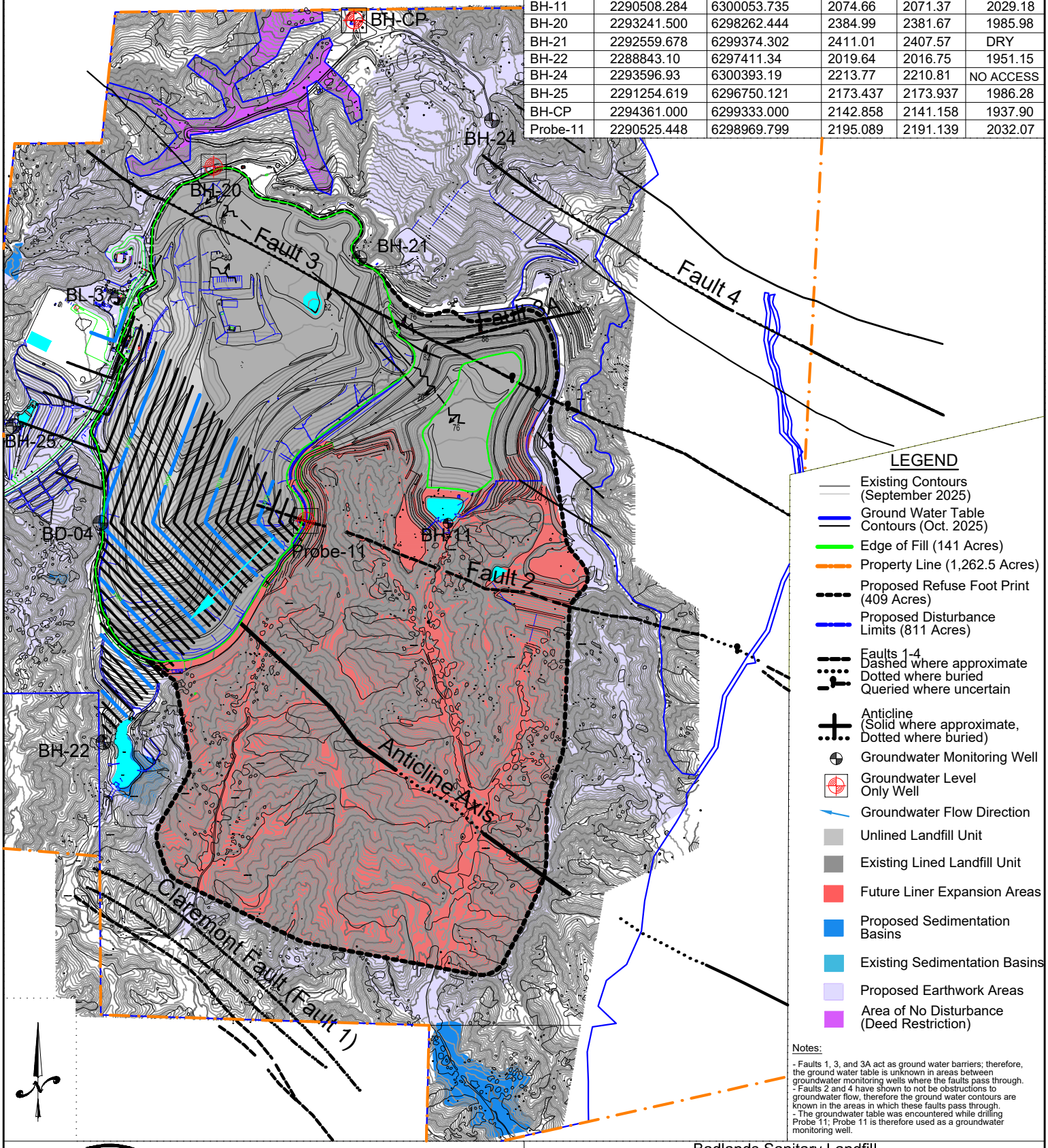
Badlands Sanitary Landfill
Preliminary Closure and Post Closure Maintenenace Plan
Figure 7- Closure Construction Schedule

ID	Task Name	Duration	Start	Finish
1	**Contract Administration**	**266 days**	**Thu 5/1/59**	**Wed 5/5/60**
2	Award Contract	3 days	Thu 5/1/59	Mon 5/5/59
3	Notice to proceed	5 days	Tue 5/6/59	Mon 5/12/59
4	Final Inspection	8 days	Tue 4/6/60	Thu 4/15/60
5	Notice of Completion	5 days	Tue 4/6/60	Mon 4/12/60
6	**Mobilization and Demobilization**	**235 days**	**Tue 5/13/59**	**Mon 4/5/60**
7	Mobilization	10 days	Tue 5/13/59	Mon 5/26/59
8	Demobilization	10 days	Tue 3/23/60	Mon 4/5/60
9	**Structure Removal**	**235 days**	**Tue 5/13/59**	**Mon 4/5/60**
10	Remove Field Office	10 days	Tue 3/23/60	Mon 4/5/60
11	Haul Storage Containers	5 days	Tue 5/13/59	Mon 5/19/59
12	Remove Fee Scale	8 days	Tue 5/13/59	Thu 5/22/59
13	Demolish Fee Booth and Guard Shac	2 days	Tue 5/13/59	Wed 5/14/59
14	Demolish Diesel Fuel tank	5 days	Tue 5/13/59	Mon 5/19/59
15	**Earthwork**	**165 days**	**Tue 5/27/59**	**Mon 1/12/60**
16	Develop Water	7 days	Tue 5/27/59	Wed 6/4/59
17	Drainage System Demolition	26 days	Thu 6/5/59	Thu 7/10/59
18	Access Road Demolition	6 days	Thu 6/5/59	Thu 6/12/59
19	Remove PGM	46 days	Thu 6/5/59	Thu 8/7/59
20	Regrade Intermediate Cover	48 days	Thu 6/19/59	Mon 8/25/59
21	Final Cover Construction	153 days	Thu 6/12/59	Mon 1/12/60
22	Berm Construction	5 days	Thu 10/30/59	Wed 11/5/59
23	**Drainage System Improvements**	**21 days**	**Thu 12/4/59**	**Thu 1/1/60**
24	Construct Drainage System	21 days	Thu 12/4/59	Thu 1/1/60
25	**Erosion Control and Crushed Base Roa**	**78 days**	**Thu 12/4/59**	**Mon 3/22/60**
26	Erosion Control	78 days	Thu 12/4/59	Mon 3/22/60
27	Crushed Base Roads	5 days	Tue 1/6/60	Mon 1/12/60



Task
Split
Milestone
Summary
Project Summary
External Tasks
External Milestone
Inactive Task
Inactive Milestone
Inactive Summary
Manual Task
Duration-only
Manual Summary Rollup
Manual Summary
Start-only
Finish-only
Deadline
Progress
Manual Progress

Well I.D.	Coordinate		Wellhead Elevation	Ground Elevation	Groundwater Elevation
	Northing	Easting			
BL-3	2292235.086	6297528.077	2348.13	2345.36	1977.68
BD-4	2290510.885	6297382.714	2223.40	2220.34	1989.85
BH-11	2290508.284	6300053.735	2074.66	2071.37	2029.18
BH-20	2293241.500	6298262.444	2384.99	2381.67	1985.98
BH-21	2292559.678	6299374.302	2411.01	2407.57	DRY
BH-22	2288843.10	6297411.34	2019.64	2016.75	1951.15
BH-24	2293596.93	6300393.19	2213.77	2210.81	NO ACCESS
BH-25	2291254.619	6296750.121	2173.437	2173.937	1986.28
BH-CP	2294361.000	6299333.000	2142.858	2141.158	1937.90
Probe-11	2290525.448	6298969.799	2195.089	2191.139	2032.07



Notes:

- Faults 1, 3, and 3A act as ground water barriers; therefore, the ground water table is unknown in areas between groundwater monitoring wells where the faults pass through.
- Faults 2 and 4 have shown to not be obstructions to groundwater flow, therefore the ground water contours are known in the areas in which these faults pass through.
- The groundwater table was encountered while drilling Probe 11; Probe 11 is therefore used as a groundwater monitoring well.

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 1000' (8.5" x 11")

0 500 1000 1500 2000 2500

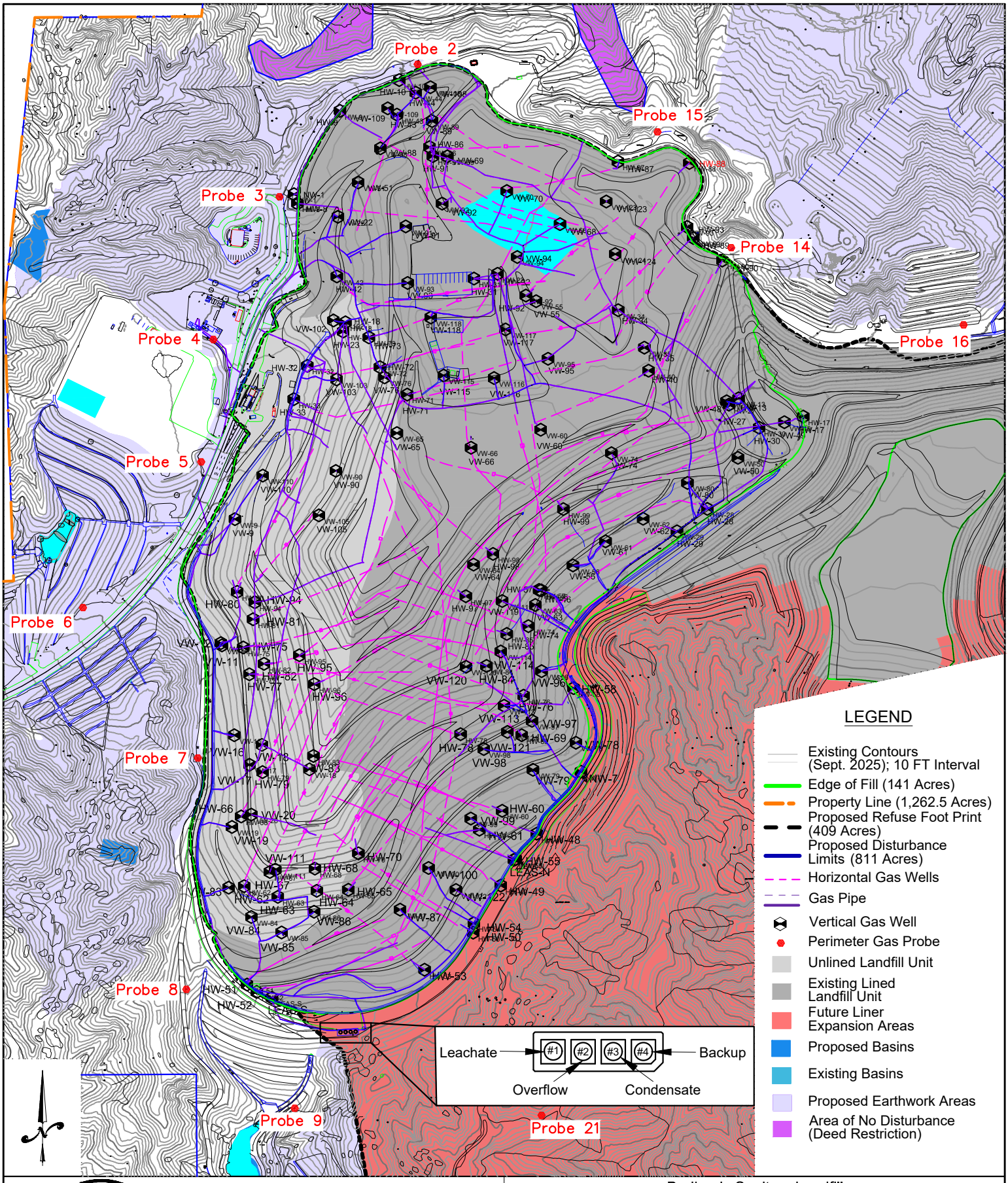
Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

Groundwater Well Monitoring Locations and Flow Gradient Map

Figure 8

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: Nov. 2025
File: F-08-Well&Flow2025.dgn	Topo Date: Sept. 2025 | Scale: 1"=1000'



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 500' (8.5" x 11")

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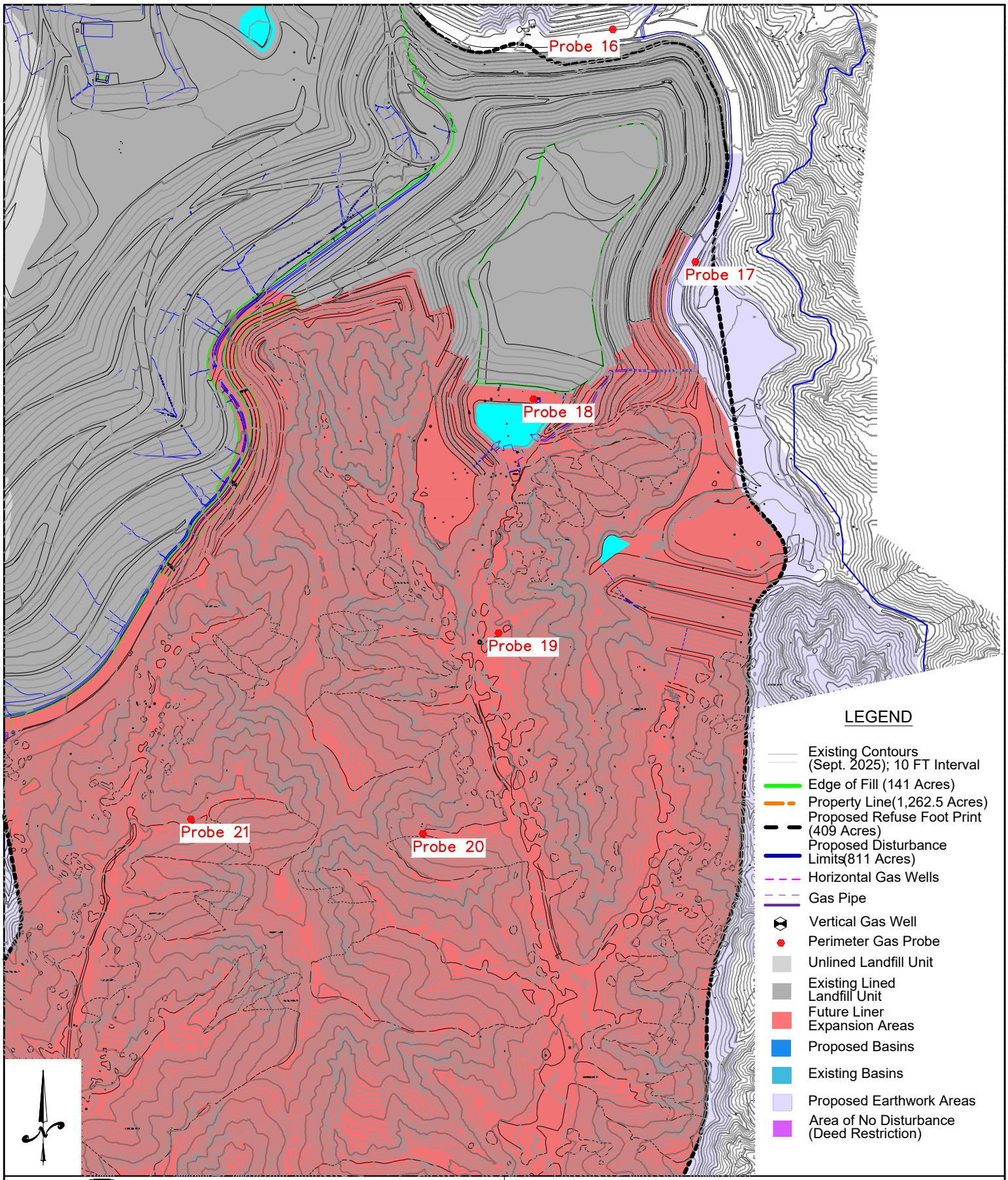
Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

Phase I Gas Collection System and Probe Location Map

Figure 9A

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: March 2026	
File: F-09A-P1GasCollectionSystem2025.dwg	Topo Date: Sept. 2025	Scale: 1"=500'



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 500' (8.5" x 11")

0 250 500 750 1000 1250

Datum is mean sea level

Badlands Sanitary Landfill
Figures for PCPCMP

Phase 2 Gas Collection System and Probe Location Map

Figure 9B

File Directory: /sites/badlands/PCPCMP/JTD#15/Figures&Drawings/	Date: Nov. 2025	
File: F-09B-P2GasCollectionSystem2025.dwg	Topo Date: Sept. 2025	Scale: 1"=500'

Appendix A – Groundwater Monitoring Information

A-1 emi Annual Com liance Monitoring Report (April 1, 2025 – e tember 30, 2025)

A-2 Groundwater Well Boring Logs

Appendix A

A-1 emi Annual Com liance Monitoring e ort (A ril 1, 2025 e tember 30, 2025)

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

October 29, 2025

Cindy Li, Section Chief
Land Disposal Section
California Regional Water Quality
Control Board - Santa Ana Region
3737 Main Street, Suite 500
Riverside, CA 92501

RE: Transmittal Letter – Semi-Annual Compliance Monitoring Report
Badlands Sanitary Landfill, 31125 Ironwood Avenue
Moreno Valley, California

Dear Ms. Li:

Please find enclosed the Semi-Annual Compliance Monitoring Report for the Badlands Sanitary Landfill. This report was prepared in general accordance with Waste Discharge Requirements (WDR) Order No. R8-2025-0006 and the accompanying Monitoring and Reporting Program (M&RP) No. R8-2025-0006. This report was uploaded to the State Water Resource Control Board's electronic database, GeoTracker.

A summary of the report's significant findings and conclusions is below:

- The site was inspected and maintained in accordance with the general requirements of WDR Order R8-2025-0006 during this monitoring period.
- The five-year constituents of concern (COC) sampling were performed at the site during Third Quarter 2025. No changes were made to the semi-annual Mpar list as result of the COC sampling event.
- Groundwater analytical results were generally consistent with past reporting periods. No volatile organic compounds (VOCs) were detected at the site during this monitoring period.
- No violations occurred during this monitoring period.

If you have any questions regarding the report, please contact me at (951) 486-3285.

Sincerely,

Digitally signed by Alexander Carry
Date: 2025.10.30 14:24:54 -07'00'

Alexander Carry
Associate Civil Engineer

Enclosure: Semi-Annual Compliance Monitoring Report

ACC:tds/eaa
PD No. 35776 – PDF

Cc: Joanne Lee – Regional Water Quality Control Board – digital
Jeff Gow – RCWDR - digital

Semi-Annual Compliance Monitoring Report
(April 1, 2025 – September 30, 2025)

for the

Badlands Sanitary Landfill
31125 Ironwood Avenue
Moreno Valley
California

Prepared By:



14310 Frederick Street
Moreno Valley, CA 92553

October 2025

Badlands Sanitary Landfill
Table of Contents

1. Introduction 1
2. General Site Information and Monitoring Data 1
3. Summary of Non-Compliance 1
4. General Site Monitoring 1
4.1 Waste Management Unit Inspection 1
4.2 Drainage Control System Inspection 2
4.3 Erosion Control System Inspection 3
4.4 Wastewater Management and Monitoring Inspection 3
4.5 Waste Type and Placement 3
4.5.1 Municipal Solid Waste 3
4.5.2 Treated Wood Waste and High Moisture Content Waste 4
4.5.3 Contaminated Soil and CRT Panel Glass Waste Acceptance Program 4
4.6 Alternative Daily Cover 4
5. Groundwater Monitoring Background Information 4
5.1 Groundwater Monitoring Well Network 4
5.2 Detection Monitoring Program (DMP) Background 7
6. Groundwater Flow Rate/Direction and Contour Maps 8
7. Third Quarter 2025 Groundwater Monitoring 8
7.1 Groundwater Well Sampling Information 8
7.2 Laboratory Analysis 9
7.2.1 Laboratory Quality Assurance/Quality Control Data 9
7.2.2 Travel Blanks 9
7.2.3 Method Blanks 9
7.2.4 Unknowns 9
7.2.5 Common Laboratory Contaminants 9
7.3 Laboratory Results 9
7.3.1 Exceedances 10
7.3.2 Newly Detected Parameters 10
7.3.3 Compliance Analysis Discussion 10
8. Groundwater Monitoring Parameter Statistical Analysis 10
8.1 Statistical Methodology 10
8.2 Statistical Background Screening 11
8.3 Non-Statistical Methodology 11
8.4 Statistical Analysis 11
8.4.1 Third Quarter 2025 Comparison to Prediction Limits 11
8.4.2 Third Quarter 2025 Non-Statistical Results 11
9. Leachate Collection System Monitoring 12
9.1 Weekly Leachate Containment Structure Inspection 12
9.2 Monthly Leachate Volumes 12
9.3 5-Year LCRS System Performance Testing 12
10. Landfill Gas Collection System Monitoring 12
10.1 Weekly Gas Condensate Structure Monitoring 12
10.2 Monthly Gas Condensate Volume 13
10.3 Perimeter Probe Monitoring 13

11. Signature.....14
12. References.....14

Appendices

Appendix A – Maps
Appendix B – Monthly Site Inspections
Appendix C – Volume of Wastewater Runoff Collected in Temporary Detention Basins
Appendix D – Landfill Logs
Appendix E – Soil Waste Profile Sheets
Appendix F – Historical Time Series Graphs – Groundwater Elevations
Appendix G – General Monitoring Procedures
Appendix H – Second Quarter 2025 Field Data
Appendix I – Third Quarter 2025 Field Data
Appendix J – Third Quarter 2025 Laboratory Results
Appendix K – Third Quarter 2025 Summary of Detected Parameters
Appendix L – Third Quarter 2025 Statistical Analysis Summary
Appendix M – Weekly Leachate and Gas Condensate Containment Structure Inspection
Appendix N – SCAQMD Rule 1150.1. Quarterly Perimeter Probe Field Logs

1. Introduction

This report was prepared in general accordance with Waste Discharge Requirements (WDR) Order No. R8-2025-0006 and Monitoring and Reporting Program (M&RP) No. R8-2025-0006. This report documents the water quality monitoring and general site inspection/monitoring programs at the Badlands Sanitary Landfill from April 1, 2025, through September 30, 2025.

2. General Site Information and Monitoring Data

The Badlands Sanitary Landfill is owned and operated by the Riverside County Department of Waste Resources (Department). The site opened in 1966 and was operated as a burn site until early 1970. The site encompasses approximately 1,262.5 acres, including all of Section 32, Township 2 South, Range 2 West, and portions of Section 4 and 5, Township 3 South, Range 2 West, San Bernardino Baseline and Meridian. The site address is 31125 Ironwood Avenue, Moreno Valley, CA 92555. Access to the site is from Ironwood Avenue via Theodore Road from State Highway 60, east of the City of Moreno Valley. A Vicinity Map is provided in Appendix A – Maps.

According to Joint Technical Document Addendum No. 13, 811 acres are to be disturbed by routine, as well as incidental, landfill activities, of which 409 acres will be used for waste disposal. A portion of the site is an unlined landfill; the remaining landfill area is lined and encompasses areas referred to as Canyons 1, 2, 3 and 4, now referred to as Phase 1, and the Phase 2 area, which was previously referred to as Canyons 5 and 6. Liner construction has been completed in Phase 1 but is on-going in Phase 2.

On June 11, 1965, the Regional Water Quality Control Board (Regional Board) adopted WDR Order No. 65-13. On July 19, 1991, the Regional Board revised WDR Order No. 65-13 and adopted WDR Order No. 91-105, which incorporates Chapter 15 Requirements. On September 10, 1993, the Regional Board revised WDR Order No. 91-105 and adopted WDR Order No. 93-57, which incorporates federal requirements for landfills found in Subtitle D. On March 11, 1994, the Regional Board revised WDR Order No. 93-57 and adopted WDR Order No. 94-17, which incorporates consistent drainage control system requirements at the site. On November 20, 1998, the Regional Board adopted WDR Order No. 98-99, which combines and replaces WDR Order Nos. 93-57 and 94-17 and amends the existing WDR for the site. The Regional Board adopted WDR No. R8-2020-003 on May 8, 2020, which superseded and replaced WDR Order Nos. 91-105, R8-2002-0085, R8-2006-0053, and R8-2010-0051. WDR Order No. R8-2020-0003 also terminated the Badlands Sanitary Landfill coverage under WDR Order Nos. 98-99 and R8-2016-0052. On June 13, 2025, the Regional Board adopted WDR No. R8-2025-0006, which superseded and replaced WDR No. R8-2020-0003.

WDR Order No. R8-2025-0006 is the current WDR that regulates water quality related activities at the site under the purview of the Regional Board.

3. Summary of Non-Compliance

No new non-compliance issues were identified during this reporting period. No violations occurred during this monitoring period.

4. General Site Monitoring

4.1 Waste Management Unit Inspection

The landfill surface conditions were inspected in accordance with the requirements of Order No. R8-2025-0006. The Department inspects the waste management unit monthly. Copies of the monthly site inspection reports are located in Appendix B – Monthly Site Inspections

No evidence of slope failure, differential settlement, fissuring, ponding (except for the landfill wastewater retention basins), or leachate staining were documented in the monthly site inspection reports.

4.2 Drainage Control System Inspection

The drainage controls were inspected in accordance with the requirements of Order No. R8-2025-0006. The Department inspects the drainage system at least monthly. The monthly site inspections include inspecting drainage structures, erosion, settlement and other drainage features that may affect storm run-on and run-off. The monthly site inspections are performed by landfill engineering staff just prior to the monthly site meetings where the various sections from the Department discuss issues pertaining to the operation of the Badlands Sanitary Landfill. The monthly site inspection is presented and discussed at the meeting and plans for any necessary repairs are formulated including assigning the repairs to specific Department sections. Copies of the monthly site inspection reports located in Appendix B – Monthly Site Inspections.

Pursuant to the site's current storm water pollution prevention plan (SWPPP), the Department is responsible for the installation and maintenance of Best Management Practices (BMPs), including run-on and run-off drainage control, to comply with National Pollutant Discharge and Elimination System (NPDES) stormwater industrial general permit requirements. All surface drainage is maintained in accordance with applicable regulatory requirements and designed to withstand a 100-year 24-hour storm event.

Run-on control systems are intended to prevent storm waters from flowing onto the facility and contacting waste. The Department achieves this by utilizing design and construction methods to redirect off-site storm water around waste management and disposal areas.

Run-off control systems are intended to collect and control storm water generated on the site. The Department has constructed permanent structures, such as the installation of asphalt concrete pavement, shotcrete drainage structures, rock lined swales, and grouted rip rap, to provide effective drainage and erosion control. These permanent structures are designed to mitigate the frequency and severity of erosion problems and reduce labor and equipment costs associated with erosion repairs and regular site maintenance. Processed green waste is also placed on slopes throughout the site to further reduce erosion as a stormwater best management practice (BMP).

In October 2008, the construction of the Southwest Sedimentation Basin in Canyon 4 was completed. This sedimentation basin is a permanent structure and is designed to retain the anticipated volume of storm water from the upstream 176-acre drainage area, which includes Canyons 1, 2, 3, and 4. This basin provides a storm water and sediment storage capacity that allows the gradual release of retained storm water downstream in a manner that does not exceed the peak flow rate at the point of discharge if there were no waste management facility.

In November 2014, the construction of the Western Stockpile Sedimentation Basin was completed. This sedimentation basin is a permanent structure and is designed to retain the anticipated volume of storm water from the upstream 24-acre drainage area, which includes office buildings, the landfill gas to energy facility area and the Western Stockpile. This basin provides a storm water and sediment storage capacity that allows the gradual release of retained storm water downstream in a manner that does not exceed the peak flow rate at the point of discharge if there were no waste management facility.

Construction of the Phase 2 Stage 1 (P2S1) Liner Expansion Sedimentation Basin was completed in February 2025. This sedimentation basin is a temporary structure and is designed to retain the

anticipated volume of storm water from the upstream 57-acre drainage area, which includes the P2S1 Liner Expansion Area. The P2S1 area is located at the northern-most and upstream end of the Phase 2 area (previously referred to as Canyons 5 and 6). This basin provides stormwater and sediment storage capacity that allows the gradual release of retained storm water downstream in a manner that does not exceed the peak flow rate at the point of discharge if there were no waste management facility.

4.3 Erosion Control System Inspection

As part of the NPDES stormwater industrial general permit, the Department has prepared a SWPPP for the Badlands Sanitary Landfill. Pursuant to the site's SWPPP, the Department is responsible for the installation and maintenance of BMPs to mitigate erosion at the site.

The Department has constructed permanent structures, such as the installation of asphalt concrete pavement, shotcrete drainage structures, rock lined swales, and grouted rip rap, to provide for effective drainage and erosion control at the Badlands Sanitary Landfill. These permanent structures are designed to mitigate the frequency and severity of erosion problems and reduce labor and equipment costs associated with erosion repairs and regular site maintenance. Processed green waste is also placed throughout the site on slopes to further reduce erosion and soil loss.

These systems are inspected at least monthly as described in the previous section. Copies of the monthly site inspection reports are located in Appendix B – Monthly Site Inspections.

In addition, the Department performs NPDES stormwater industrial general permit visual monitoring, sampling, and analysis, which are submitted to the Regional Board under separate cover.

4.4 Wastewater Management and Monitoring Inspection

The Wet Weather pad is adjacent to and upstream of the Canyon 2, Phase 5 Temporary Detention Basin. During rain events wastewater is generated when stormwater contacts waste on the Wet Weather Pad. The wastewater drains to the Canyon 2, Phase 5 Temporary Detention Basin. When the area around the percolation basin is dry enough, wastewater in the basin is pumped into water trucks and used as dust control on lined portions of the landfill. As each lift is constructed, a new Wet Weather Pad and Detention basin is established in a new location over the lined area of the landfill. A summary of the rainfall for the current reporting period and the estimated volume of water captured in the temporary detention basin is included in Appendix C – Volume of Wastewater Runoff Collected in Temporary Detention Basins.

4.5 Waste Type and Placement

This landfill accepts municipal solid waste, and other permitted wastes, as described in the Department's permit to operate and other regulatory permitting documents.

4.5.1 Municipal Solid Waste

A landfilled tonnage report, itemized by refuse type, for this monitoring period is located in Appendix D – Landfill Logs. The location of waste placement in which filling has been completed during this monitoring and reporting period is as shown on the Second and Third Quarter 2025 Waste Placement Map, which is included in Appendix A – Maps.

The approximate municipal solid waste tonnage accepted at the site for this monitoring period is provided in the below table.

Reporting Quarter	Municipal Solid Waste (tons)
Second Quarter 2025	214,084
Third Quarter 2025	209,721

4.5.2 Treated Wood Waste and High Moisture Content Waste

The site began accepting Treated Wood Waste (TWW) on August 7, 2006. The site is also permitted to accept high moisture content waste (HMCW). HMWC is any waste stream having a moisture content of 50 percent or more, excluding septic wastes.

The approximate TWW and HMCW mass accepted at the site for this monitoring period are provided in the below table.

Reporting Quarter	TWW (tons)	HMCW (tons)
Second Quarter 2025	221	160
Third Quarter 2025	150	82

TWW and HMCW were disposed of in the lined portion of the landfill.

4.5.3 Contaminated Soil and CRT Panel Glass Waste Acceptance Program

The site began accepting contaminated soil on August 6, 2015, and began accepting CRT Panel Glass Waste (CRT Waste) on October 5, 2015.

The approximate contaminated soil and CRT Waste mass accepted at the site for this monitoring period are provided in the below table:

Reporting Quarter	Contaminated Soil (tons)	CRT Panel Glass (tons)
Second Quarter 2025	0	0
Third Quarter 2025	120	0

Copies of the waste profile sheets for the disposed contaminated soil are located in Appendix E – Soil Waste Profile Sheets.

4.6 Alternative Daily Cover

Alternative Daily Cover (ADC) has been approved for use at Badlands Sanitary Landfill. The types of ADC currently used are tarps, green waste and ground construction materials. Tarps are pulled over the exposed face at the end of each working day and usually removed the next operating day. Greenwaste and ground construction materials are typically delivered to the active face during the day and stored at the edge of the pad until the end of the day. Greenwaste and/or ground construction material are used as supplemental ADC for the working face, typically placed around the tarp edges or when tarps are not in use. The greenwaste and/or ground construction material ADC is typically placed about six inches thick.

The Department did not use any ADC besides tarps during this monitoring period.

5. Groundwater Monitoring Background Information

5.1 Groundwater Monitoring Well Network

The Regional Board approved the Canyon 3 Phase 1 expansion plans, which included the abandonment of groundwater monitoring wells BL-2, BH-5 and BH-10A. In April 1999, the Department abandoned wells BL-2, BH-5 and BH-10A and submitted a report on April 28, 1999.

On April 18, 2001, the Department submitted a letter to the Regional Board for review and approval to install three new groundwater monitoring wells at the site. Due to a biological study and environmental assessment study being conducted in the vicinity of the downgradient well and westerly sedimentation basin, the Department has postponed the installation of the downgradient well until these studies are completed. The Department installed the new groundwater monitoring wells BH-20 and BH-21 in late June 2001. Due to difficulties while drilling well BH-21, the contractor requested to use drilling fluids. The Department received approval from the Regional Board under the condition that the well would be sampled for the parameters listed on the MSDS for the drilling fluids. Therefore, the Department sampled for MBAS, Ethyl Alcohol and Total Petroleum Hydrocarbons in addition to all Constituents of Concern (COC) for four quarters. According to groundwater elevations, BH-21 is a downgradient well. Acetone has been detected in upgradient well BH-20 since Third Quarter 2001. Therefore, the Department had proposed to sample the well for EPA method 8260 on a quarterly basis. The detection may have been introduced during drilling or installation of the well.

Due to the Canyon 4, Phase 2 expansion project, the Regional Board approved the abandonment of BH-6 on October 4, 2002, and stated that since well BH-6 is not part of the current groundwater monitoring system, the Department does not need to replace BH-6. The Department submitted the Report for Abandonment of Monitoring Well BH-6, prepared by the Department Consultant L.D. Anderson, Inc., to the Regional Board on December 5, 2002.

Due to sampling difficulties in groundwater monitoring well BH-20, the Department had Welenco, a consultant, video log BH-20 on September 24, 2002. During the video logging procedure, it was discovered that the well screen was actually placed at 387 feet below ground surface (bgs), not 398 feet bgs. The total well depth is actually 412 feet bgs not 430 feet bgs as stated by the driller during installation of the well. Another observation noted was the presence of what the Department believes to be cement in the screen slots at 389 feet bgs. Since it appears that the bottom of the well was actually placed at 412 feet bgs and not 430 feet bgs during the installation of the well, this would explain the presence of cement in the well screen slots. The Department believes that when the driller was installing the well the driller did not realize cement was being tremied into the well screen because the driller was using the depth of 430 feet bgs for the bottom of the well not 412 feet bgs. The only explanation for this discrepancy is that during installation of the well one section of PVC was inadvertently counted twice. One section of PVC is 20 feet long and the well is approximately 20 feet shorter than originally thought. The Department submitted a revised detail drawing and amended well construction report to the Regional Board on March 10, 2003.

In April 2003, the Regional Board informed the Department via e-mail that the Regional Board does not consider BH-20 a valid groundwater monitoring and requested that the Department abandon well BH-20. The well was originally installed by THF drilling. Since the wells were installed and developed at the site, THF changed owners and is now owned by Water Development Corporation. Therefore, on June 12, 2003, the Department sent a letter to Joe Spedale, Vice President of Water Development Corporation, requesting a meeting between the two parties to discuss the circumstances surrounding groundwater monitoring well BH-20. The Department also attached a copy of the Revised Monitoring Well Construction Report for BH-20 and BH-21 for Mr. Spedale's information. The revised report contained information regarding the drilling procedure, well installation, and well development for BH-20 and BH-21, and also included the video logging findings for BH-20. On June 24, 2003, per a telephone conversation, Mr. Spedale informed the Department that Water Development Corporation purchased the equipment and name of THF Drilling, but not their liability, and that the Department should contact the previous owner of THF, Jim Stevens, to resolve this situation regarding BH-20. On July 21, 2003, the Department met with Jim Stevens at the Department headquarters. The

Department gave a copy of the Revised Monitoring Well Construction Report for BH-20 and BH-21 to Mr. Stevens. On October 8, 2003, the Department faxed additional information to Mr. Stevens regarding the well piping and drilling. On November 25, 2003, both parties met for an additional meeting at the Department headquarters. On January 21, 2004, the Department submitted a letter to the Regional Board detailing what the Department deems an acceptable solution to rehabilitate BH-20. On February 4, 2004, Joanne Lee, of the Regional Board staff, e-mailed Angela Dufresne, of the Department staff, several questions regarding the rehabilitation effort on BH-20 before approving the proposed solution. On February 2, 2006, the Department e-mailed a reply to the Regional Board's questions regarding the rehabilitation effort on BH-20. Joanne Lee, of the Regional Board staff, e-mailed Panda Workman, of the Department staff, on February 7, 2006, stating once she has had an opportunity to review the files, she will respond to the Department's request on rehabilitating BH-20.

On February 1, 2007, the Regional Board sent the Department a letter regarding the rehabilitation of well BH-20 and the installation of a replacement well for well BH-21. The Department is currently working with the Regional Board on both of these issues. On June 5, 2007, and August 28, 2007, the Department met with the Regional Board to discuss these wells in addition to the site hydrogeologic conditions. The Department submitted a Workplan for Hydrogeologic Studies to the Regional Board in February 2008 and subsequently received a comment letter from the Regional Board, dated March 19, 2008. The Department then began to prepare a Hydrogeologic Summary of the available data for the landfill site. The Hydrogeologic Summary was submitted to the Regional Board on April 18, 2008. The Regional Board approved the Hydrogeologic Summary on May 29, 2008.

As part of the site expansion at the site, the Department constructed a larger sedimentation basin at the south end of the site. Grading for the larger sedimentation basin included the area surrounding well BH-7; therefore, BH-7 needed to be abandoned. Well BH-7 was installed during a geologic and hydrogeologic investigation at the site in 1990 and was not a part of the regular monitoring network at the site. The Regional Board approved the well abandonment, and the well was subsequently abandoned in November 2007.

Considering the questions regarding the integrity of well BH-20, the Department has chosen to remove the well from the regular monitoring well network. The Department will no longer collect groundwater samples from the well, including the off-quarter sampling for acetone. The Department will continue to take quarterly groundwater level measurements from the well to aid in the determination of groundwater flow direction at the site.

As specified in the Department's Hydrogeologic Summary, the Department installed three new groundwater monitoring wells (BH-22, BH-23 and BH-24) to supplement the existing network of groundwater monitoring wells. The wells were installed and developed during Second Quarter 2009. The wells were sampled for four consecutive quarters, beginning First Quarter 2010 and ceasing Fourth Quarter 2010. The wells have been incorporated into the approved semi-annual sampling schedule.

To confirm the general downgradient, southerly groundwater flow for the majority of the waste management unit area, on December 14, 2010, the Department proposed to the RWQCB to incorporate BH-8 into the quarterly groundwater gauging program for the site and cease quarterly groundwater gauging in BH-15. On April 15, 2011, the Regional Board approved to cease quarterly groundwater gauging at BH-15 and to begin quarterly groundwater gauging at well BH-8. As stated in the approval letter, at the end of the three-year groundwater gauging program, the Department will evaluate the monitoring data and decide if there is a need to continue the groundwater gauging program at the site. The groundwater data obtained from BH-8 confirmed the groundwater underlying the site predominantly flows towards the south, generally matching the surface water flow

direction within the local canyons. Therefore, on May 31, 2016, the Department proposed to cease groundwater gauging for BH-8. The Regional Board concurred with the Department's proposal to cease groundwater gauging at well BH-8 on July 1, 2016.

As part of the current site expansion (C4P3), grading was to occur in the area surrounding groundwater monitoring well BL-1; therefore, BL-1 needed to be abandoned. On August 23, 2011, the Department proposed to continue using downgradient groundwater monitoring well BH-22, which is located south (downgradient) of BL-1 and of the waste management unit, as the point of compliance well. The Regional Board approved the Department's request to abandon BL-1 on November 16, 2011. The well was abandoned on April 17, 2012. The Department submitted a Well Abandonment Report to the Regional Board on October 18, 2012.

As a result of the landfill development, it appears that that the local groundwater flow direction has changed along the western side of the landfill, in between monitoring wells BL-03 and BD-04. The Department proposed a new groundwater monitoring well, BH-25, to monitor groundwater in this portion of the site in a letter, dated April 10, 2014. The Regional Board subsequently approved the proposed well location and design in an email, dated May 22, 2014.

The Department installed BH-25 during July 2015. BH-25 has been incorporated into the approved semi-annual sampling schedule.

Due to the expansion project (referred to as C2P5/C3P2) along the northern portion of the landfill, groundwater monitoring well BH-23 was abandoned. The Regional Board approved the Department's request to abandon BH-23 on September 26, 2022, and BH-23 was abandoned on March 6, 2023.

5.2 Detection Monitoring Program (DMP) Background

On February 2, 1995, the Department notified the Regional Board of the initial indication of a release at the Badlands Sanitary Landfill site, per the non-statistical test requirements in WDR No. 93-57. The Department performed a discrete retest, as required by WDR No. 93-57, the results of which were submitted to the Regional Board in a certified letter dated April 5, 1995. On April 17, 19 and 20, 1995, the Department performed a COC scan, the results of which were submitted in a letter dated June 14, 1995. The Department had submitted an amended Report of Waste Discharge (ROWD) to the Regional Board, which includes a proposal to establish an Evaluation Monitoring Program in accordance with the California Code of Regulations (CCR), Title 27, Subchapter 3, Section 20420 and Section 20425 as well as the Code of Federal Regulations (CFR), Title 40, Section 258.55(g)(1)(ii). Further analysis of the detected parameter indicated more a single contamination event than a landfill "release", most likely due to negligence during well construction. The Department has successfully petitioned to the Regional Board to continue the Detection Monitoring Program.

On October 20, 2001, the Department notified the Regional Board of an initial indication of release at the site. As stated in WDR No. 98-99 (D)(2) and CCR, Title 27 §20415(e)(8)(E), the Department performed a discrete retest on November 7, 2001. On December 19, 2001, the Department submitted the results of the discrete retest to the Regional Board. The Department believes that the constituents detected in the two sampling events were introduced during well installation and/or well development. Since the Department believes that the detection is an artifact caused by a source(s) other than the site, the Department proposed to the Regional Board to continue with the Detection Monitoring Program at the site in the December 19, 2001 letter.

The following wells are currently monitored as part of the DMP for the site: BL-03, BD-04, BH-11, BH-21, BH-22, BH-24 and BH-25. The following wells are monitored quarterly to obtain groundwater level measurements only: BH-20 and BH-CP.

6. Groundwater Flow Rate/Direction and Contour Maps

The Groundwater Monitoring Well Locations and Groundwater Contour Maps, which are provided in Appendix A – Maps, illustrate the two primary groundwater zones that are believed to exist beneath the site and the groundwater flow direction. These zones are separated by Fault 3 (Department, 2008).

The groundwater gradient, flow rate and direction interpreted for this monitoring and reporting period are provided in the below table.

North of Fault 3

Date Measured	Gradient (ft/ft)	Flow Rate (ft/day)	Direction
April 30, 2025	NA	NA	NA
August 4, 2025	NA	NA	NA

Calculations based on an assumed hydraulic conductivity of 1×10^{-4} cm/sec and effective porosity of 0.1.

BH-CP is used as a non-potable waste source for the site operations. Due to a stockpile instability at the site, the Department did not have access to BH-24 during Second Quarter 2025 and Third Quarter 2025. As a result, the Department was unable to calculate a groundwater gradient for the zone North of Fault 3 for this monitoring period.

South of Fault 3 – Southern Portion

Date Measured	Gradient (ft/ft)	Flow Rate (ft/day)	Direction
April 30, 2025	0.03	0.10	Southwest
August 4, 2025	0.03	0.10	Southwest

Calculations based on an assumed hydraulic conductivity of 1×10^{-4} cm/sec and effective porosity of 0.1.

BH-21 was dry during this monitoring period. The gradient and flow rate for South of Fault 3 were calculated for Second and Third Quarter without a groundwater elevation from BH-21.

Time series graph of historical groundwater elevation is included in Appendix F – Historical Time Series Graphs – Groundwater Elevations.

7. Third Quarter 2025 Groundwater Monitoring

In accordance with M&RP No. R8-2025-0006, the Department samples all monitoring points and background monitoring points for all Constituents of Concern (COC) every fifth year. The Department performed the required COC sampling during Third Quarter 2025.

7.1 Groundwater Well Sampling Information

Detailed well monitoring information and field procedures for groundwater sample collection are outlined in Appendix G – General Monitoring Procedures. Samples are collected using sampling equipment dedicated to individual wells. Data collected in the field is recorded on individual data sheets (Appendix I – Third Quarter 2025 Field Data) and include the following items: number and description of the samples, the type of containers and preservatives used, the date and time of sampling and other observations.

The vertical placement of the pump inlet, the depth below the top of the well casing, for each groundwater monitoring well is provided in the table below:

Well ID	Pump Inlet Depth (feet bgs)	Well ID	Pump Inlet Depth (feet bgs)
BL-03	398	BH-22	79
BD-04	259	BH-24	234
BH-11	81	BH-25	230
BH-21	No pump – bailer		

Groundwater monitoring well BH-21 was dry; therefore, a groundwater sample was not obtained during Third Quarter 2025. The Department gauges all groundwater monitoring wells quarterly and if there is sufficient groundwater identified during a quarterly groundwater measurement, the Department will collect a groundwater sample from BH-21 regardless of the regular sampling scheduled.

Well BH-24 was inaccessible for sampling due to stockpile instability.

No other field sampling issues of note were encountered during this monitoring period. No purge water was generated or disposed of during this monitoring period.

7.2 Laboratory Analysis

Enthalpy Analytical (Enthalpy) performed sample analysis for this monitoring period. Enthalpy is accredited by the State Water Resources Control Board, Environmental Laboratory Accreditation Program. The complete laboratory analysis results are located in this report as Appendix K – Third Quarter 2025 Laboratory Results.

7.2.1 Laboratory Quality Assurance/Quality Control Data

Laboratory quality assurance/quality control (QA/QC) data is contained in this report as Appendix J – Third Quarter 2025 Laboratory Results. The information in the referenced Appendixes contain the reference/laboratory identification number to which batch the QA/QC pertains to, the method number, analytical detection limits, recovery rates, results of method blanks, results of spiked matrixes and surrogates, and trip/travel blank results. A minimum of one travel blank is included in each ice chest that contains samples shipped to the laboratory.

7.2.2 Travel Blanks

Toluene was detected in the travel blank analysis. Refer to Section 7.3.3 for additional information regarding this detection.

7.2.3 Method Blanks

No parameters were detected in the method blanks during this monitoring period.

7.2.4 Unknowns

Any unknown chromatographic peaks are reported in Appendix K – Third Quarter 2025 Laboratory Results.

7.2.5 Common Laboratory Contaminants

No common laboratory contaminants (e.g. Acetone, Chloroform, 2-Butanone or Methylene Chloride) were detected in the travel and method blanks during the aforementioned QA/QC process.

7.3 Laboratory Results

A summary of all parameters detected during this reporting period is located in this report as Appendix K – Third Quarter 2025 Summary of Detected Parameters. The summary sheet indicates all parameters that were detected above the laboratory MDL.

The complete laboratory analysis results are located in this report as Appendix K – Third Quarter 2025 Laboratory Results.

7.3.1 Exceedances

The table below summarizes the exceedances from this monitoring period. Note the exceedance are for COC parameters and all the exceedances are historical and consistent with past concentrations.

Parameter	Well No.	Concentration	Concentration Limit	Historical or New Exceedance
Fluoride	BD-04	3.7 mg/l	MCL: 2 mg/l	Historical
	BH-11	0.95 mg/l		Historical
	BH-22	5.5 mg/l		Historical
	BH-25	4.2 mg/l		Historical
	BL-03	2 mg/l		Historical
Total Vanadium	BD-04	63 µg/l	NL: 50 µg/l	Historical
	BH-11	5.9 µg/l		Historical
	BH-22	180 µg/l		Historical
	BH-25	19 µg/l		Historical
	BL-03	220 µg/l		Historical

7.3.2 Newly Detected Parameters

No new parameters were detected during this monitoring period.

7.3.3 Compliance Analysis Discussion

- Five-year COC sampling was completed Third Quarter 2025. No changes were made to the semi-annual Mpar list as result of the COC sampling event.
- Groundwater analytical results were generally consistent with past reporting periods.
- No volatile organic compounds (VOCs) were detected in the groundwater monitoring wells.
- As reported in Section 7.2.2, Toluene was detected in the travel blank analysis. Toluene was not detected in any of the groundwater samples. Therefore, the Toluene detected in the travel blank has not affected the integrity of the groundwater sample analysis.

8. Groundwater Monitoring Parameter Statistical Analysis

8.1 Statistical Methodology

The Department performed statistical analyses of inorganic groundwater monitoring data using Intrawell Prediction Limits, as specifically allowed for in the California Code of Regulations, Title 27, Section 20415 (e)(8)(C). A Prediction Limit is constructed to contain the next sample value from a population with a specified probability. That is, after sampling a well for some time and measuring the concentration of an analyte, the data can be used to construct a limit that will bound the next analyte sample concentration, assuming the distribution has not changed. A prediction limit will thus be the upper bound concentration of a future value with specific probability. The prediction limit is constructed on past background data from the well and is used to predict the behavior of future samples from the same well (EPA, 1992).

When comparing background data to compliance data, if the distribution of the background data is the same as the compliance data point, then the compliance data point should be less than the prediction limit. Statistical evidence of new groundwater contamination is indicated if the one or more of the compliance analyte concentrations exceed the prediction limit. This condition shall be confirmed through retesting. Retesting is part of the statistical analysis. The Department utilizes a

pass 1-of-2 retesting strategy, which is consistent with EPA's Unified Guidance (2009). When the initial sample and the retest sample both exceed the Prediction Limit, statistical evidence of a change in groundwater quality is confirmed, which is known as a statistically significant increase (SSI).

The background data used to determine the Prediction Limit is screened through the use of outlier, temporal and seasonal trends tests. No pre-waste background data is available for the site. The Department screened the background data from late 1988s through First Quarter 2022 for outliers, temporal trends and seasonal trends before performing prediction limit analysis on the statistical population.

8.2 Statistical Background Screening

The Department updates screened background data when four new data points are collected. The Department updated the screened background during Third Quarter 2024. The groundwater samples are collected semi-annually; therefore, Department will update the screened background during Third Quarter 2026 .

8.3 Non-Statistical Methodology

VOCs that have been detected in less than 10 percent of the historical results are evaluated by a non-statistical data analysis method, the double quantification rule (EPA, 2009). Retesting for the double quantification rule is initiated in accordance with the two triggers method. The retest triggers are as follows:

- Three or more of the Mpars from a monitoring well exceed the laboratory MDL; or
- One Mpar from a monitoring well exceeds the laboratory RL.

If either of the above triggers occurs, then a retest is completed. If the retest confirms the condition that initiated the trigger, then the double quantification rule is confirmed and non-statistical evidence of a change in water quality exists.

8.4 Statistical Analysis

8.4.1 Third Quarter 2025 Comparison to Prediction Limits

Initial background prediction limit exceedances were identified in the August 4, 2025 sampling. The Department performed a retest on October 7 and 9, 2025. The table below summarizes the results of the initial testing and subsequent retesting.

Parameter (concentration units)	Well	Prediction Limit	Initial Test	Retest	Pass 1-of-2 Testing
Sulfate	BD-04	22	23	**22**	Yes
Potassium	BL-03	**0.588**	0.77	**ND**	Yes

As summarized above, the initial background prediction limit exceedance were not confirmed in the retest, thus, passing the pass 1-of-2 retesting strategy. The complete output of the Department's inorganic groundwater parameters statistical is included in Appendix O – Third Quarter 2025 Statistical Analysis Summary.

8.4.2 Third Quarter 2025 Non-Statistical Results

No parameters triggered the double-quantification rule retesting during this monitoring period.

9. Leachate Collection System Monitoring

9.1 Weekly Leachate Containment Structure Inspection

The leachate collection and recovery system (LCRS) was inspected, maintained and operated during the monitoring period in accordance with WDR Order No. R8-2025-0006. The Department monitors the LCRS on a weekly basis and records the volume of leachate collected in the containment structures on weekly inspection forms. The leachate weekly containment structure inspection forms for this monitoring period are provided in Appendix M – Weekly Leachate and Gas Condensate Containment Structure Inspection. No deficiencies were identified in the leachate containment structure during this monitoring period.

9.2 Monthly Leachate Volumes

A summary of the total volumes, on a monthly basis, of leachate collected at the site is provided in the table below:

Reporting Month	Phase 1 Leachate (gallons)	Phase 2 Leachate (gallons)	Reporting Month	Phase 1 Leachate (gallons)	Phase 2 Leachate (gallons)
April 2025	4,247	79,703	July 2025	5,685	1,336
May 2025	582	12,229	August 2025	4,452	1,225
June 2025	6,610	2,310	September 2025	616	1,448

In September 2025, it was recognized that the pump in the phase 1 LCRS was not operating. Repairs were made and the system became operational again in October 2025. The Department has made adjustments to its monitoring practices to more quickly recognize issues with the LCRS.

April 2025 was the first month leachate was removed from the phase 2 system. Phase 2 does not have much waste in place and was significantly influenced by rainfall in the first few months of operation.

Leachate is used for dust control within the lined portion of the landfill.

9.3 5-Year LCRS System Performance Testing

During First Quarter 2025, the Department tested the performance of the Phase 1 LCRS through a florescent dye tracer study. The findings of the study were submitted to the Regional Board in a letter report, dated April 30, 2025.

The Department will next test the performance of the Phase 2 LCRS in 2025, then repeat the tests during 2030.

10. Landfill Gas Collection System Monitoring

A landfill gas collection system (GCS) was first installed at the site in 1995. Since the initial installation, additional phases of the GCS were installed. The purpose of the landfill GCS is to reduce methane and non-methane organic compound (NMOC), which include VOCs and other toxic air contaminants, emissions from the landfill. The landfill GCS was not installed and is not operated as a corrective action measure for water quality, even though it does function as such.

10.1 Weekly Gas Condensate Structure Monitoring

The gas condensate collection system was inspected, maintained and operated during the monitoring period in accordance with WDR Order No. R8-2025-0006. The Department inspects the condensate system weekly and records the volume of gas condensate collected in the containment structure and any deficiencies identified on the monthly inspection forms. The weekly gas condensate containment

structure observation forms are provided in Appendix M – Weekly Leachate and Gas Condensate Containment Structure Inspection. No deficiencies were identified in the landfill gas condensate containment structure during this monitoring period.

10.2 Monthly Gas Condensate Volume

A summary of the total volumes, on a monthly basis, of gas condensate collected at the site is provided in the table below:

Reporting Month	Gas Condensate (gallons)	Reporting Month	Gas Condensate (gallons)
April 2025	39,516	July 2025	35,055
May 2025	42,363	August 2025	25,342
June 2025	32,226	September 2025	26,815

Gas condensate is used as a dust control measure on the lined portion of the landfill.

10.3 Perimeter Probe Monitoring

The Department monitors the perimeter gas probes quarterly, in accordance with SCAQMD Rule 1150.1. The quarterly perimeter gas probe field forms for this monitoring period are provided in Appendix N – SCAQMD Rule 1150.1. Quarterly Perimeter Probe Field Logs.

11. Signature

I declare under the penalty of law that I have personally examined and am familiar with the information submitted in this document, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and imprisonment for knowing violations.



Digitally signed by
Alexander Carry
Date: 2025.10.30
14:23:41 -07'00'

Submitted By:_____10/30/2025_____

Alexander C. Carry, P.E.
Associate Civil Engineer
Riverside County
Department of Waste Resources

12. References

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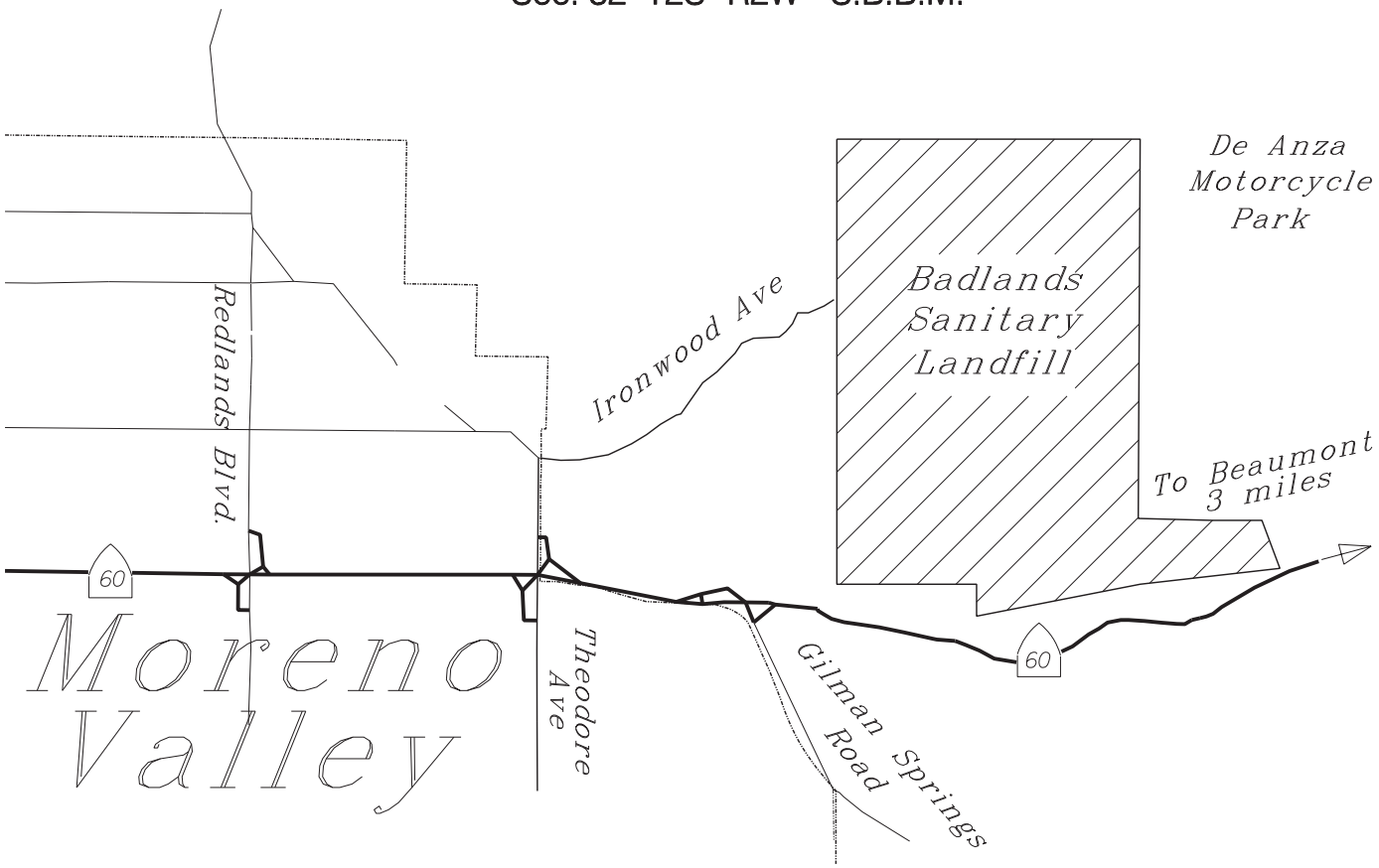
EPA, March 2009, Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities Unified Guidance, Office of Resource Conservation and Recovery, EPA 530-R-09-007.

Appendix A – Maps

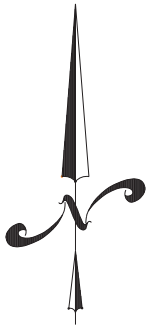
Badlands Sanitary Landfill
Vicinity Map

Por. Secs. 4 & 5 T3S R2W &

Sec. 32 T2S R2W S.B.B.M.



Legend	
Paved Access Roads	
Freeway (Highway 60)	
Other Roads	
City Boundary	
Sanitary Landfill	



0 3500′ 7000′

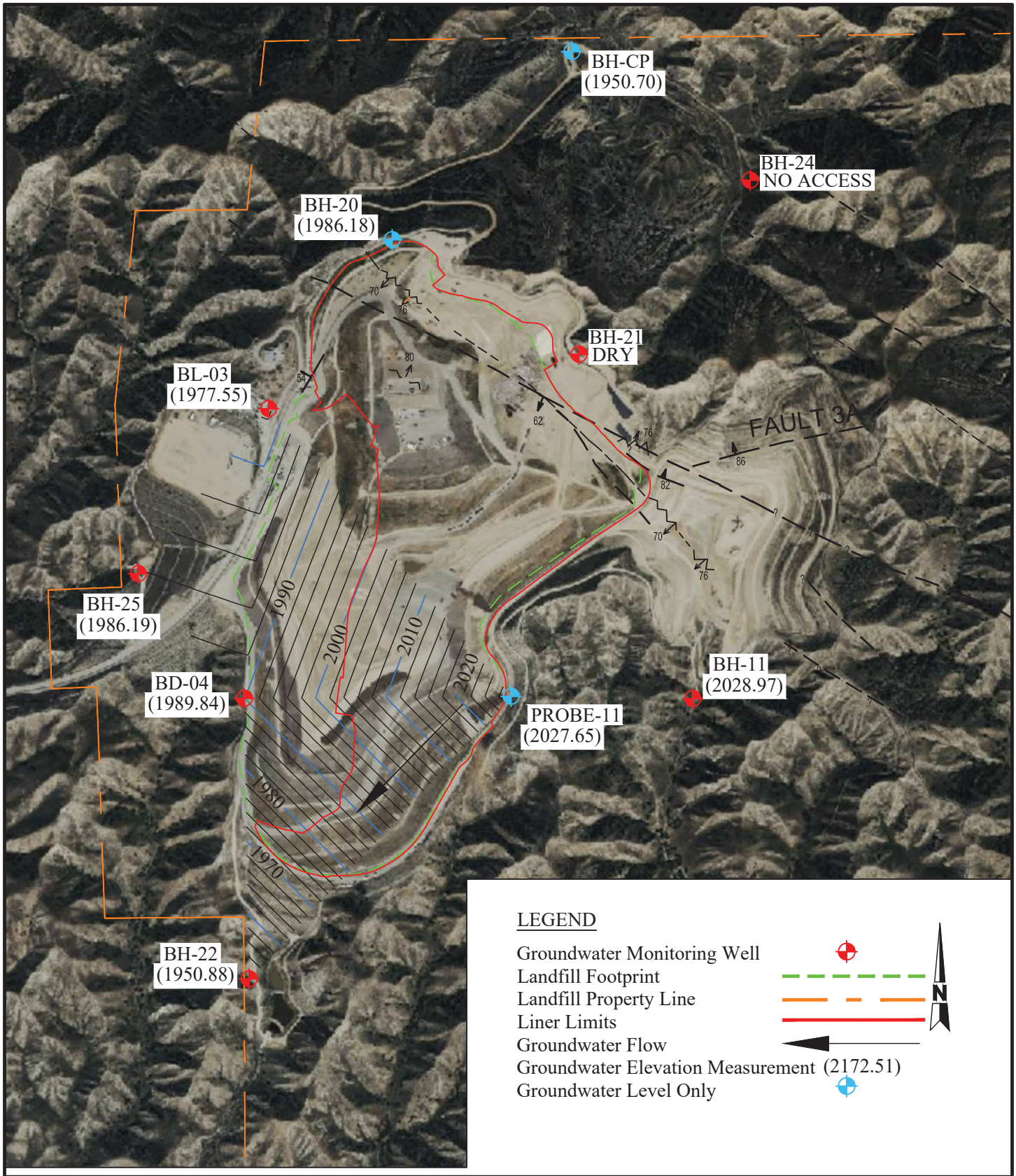
Scale in Feet

Riverside County
Waste Management Department

Badlands Sanitary Landfill
Vicinity Map

File Directory: //waste 1/envr/data /sites /badlands vicinity map. dgn

Date: July 2001 | Scale : 1" = 3500'



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

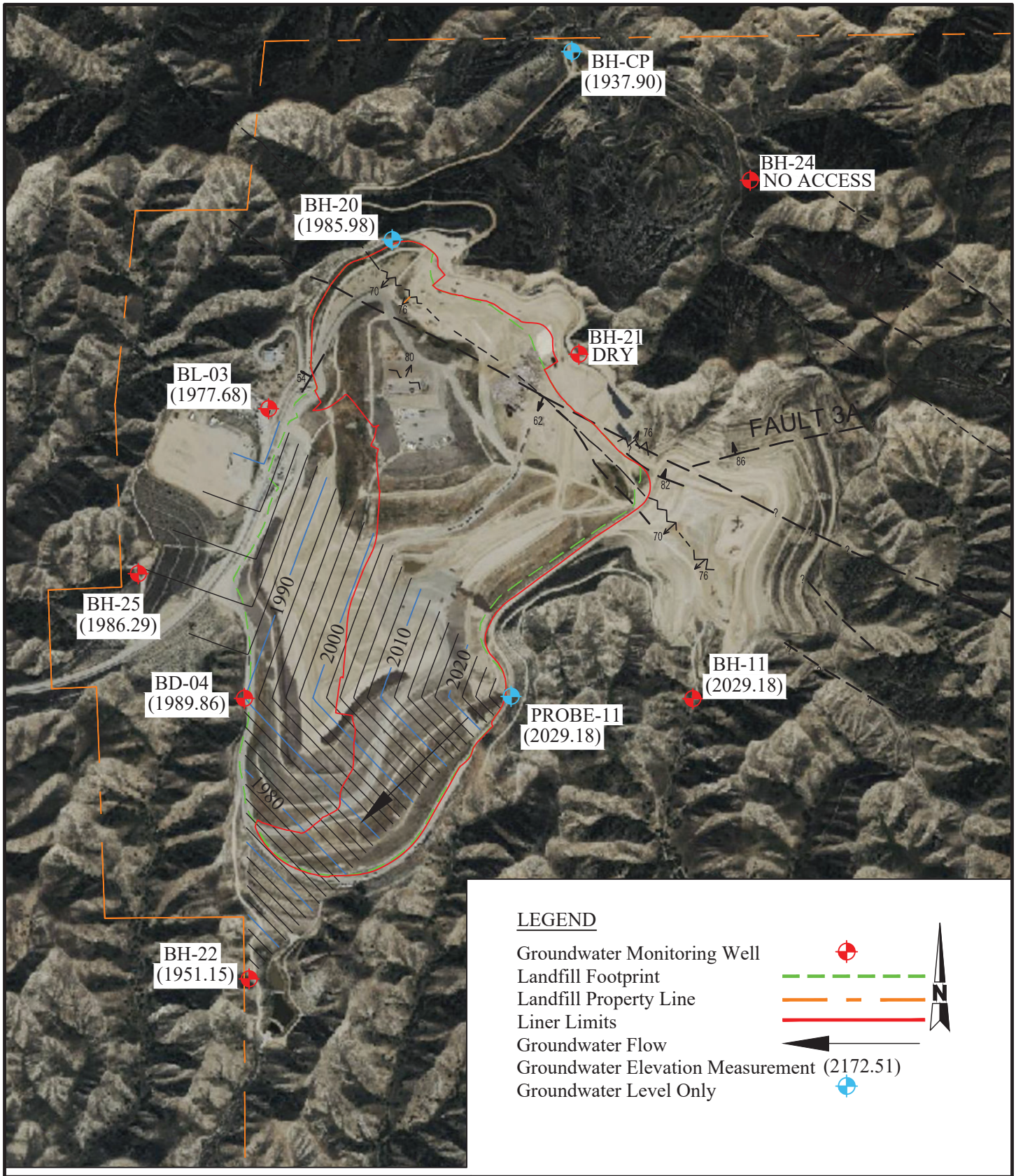
Badlands Sanitary Landfill - Second Quarter 2025

Groundwater Monitoring Well Location and Groundwater Contour Map

SCALE 1":800'

0 160 400 800 1600

Folder: P:/sites/badlands/water/wtrpts	Latest Edit: Oct. 2025	Drawn By: EAA	Map A
File: BA2Q25wtrpt.dwg	Groundwater Measurement: Apr. 2025		



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

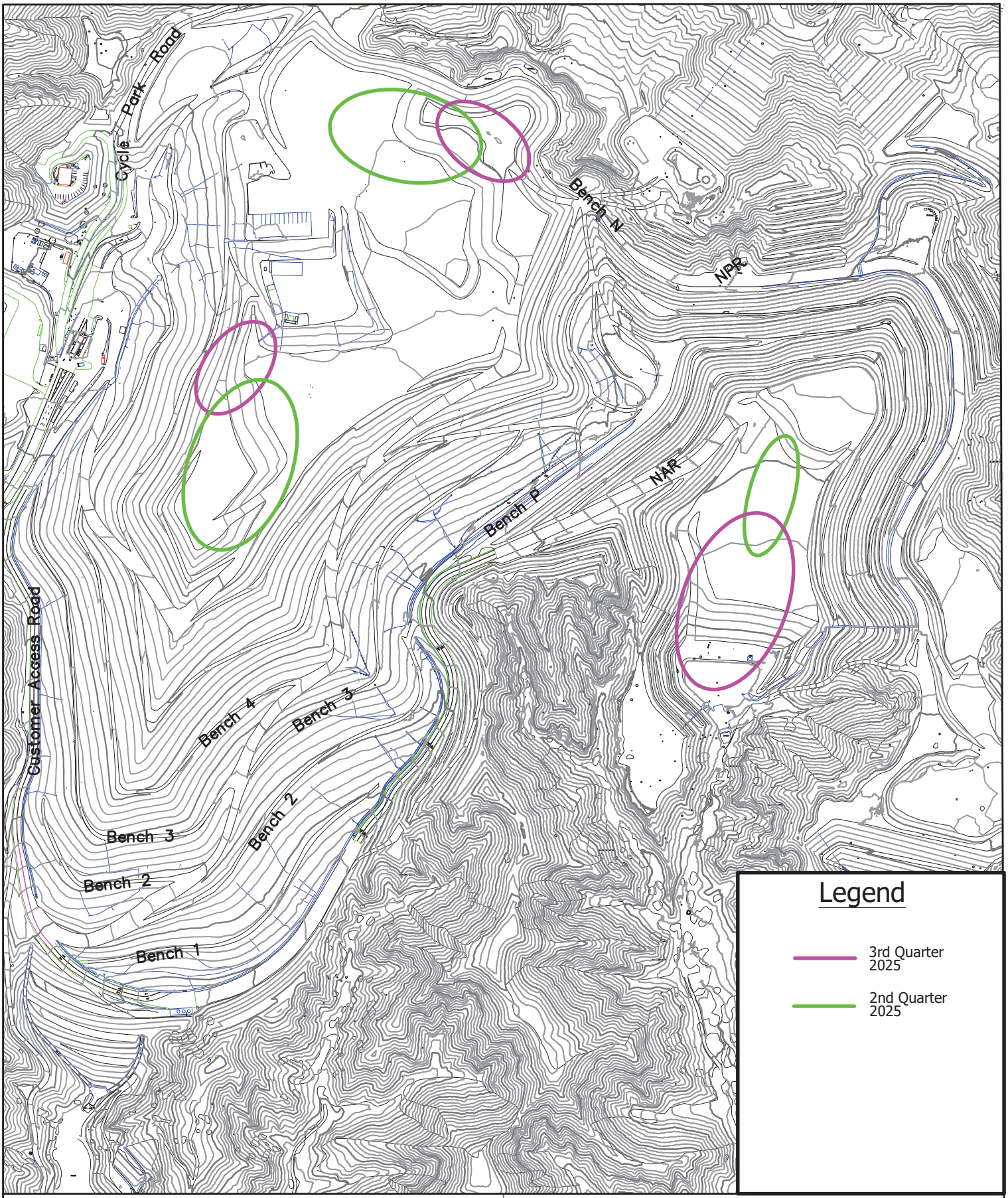
Badlands Sanitary Landfill - Third Quarter 2025

Groundwater Monitoring Well Location and Groundwater Contour Map

SCALE 1":800'

0 160 400 800 1600

Folder: P:/sites/badlands/water/wtrpts	Latest Edit: Oct. 2025	Drawn By: EAA	Map A
File: BA3Q25wtrpt.dwg	Groundwater Measurement: Aug. 2025		



RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Badlands Sanitary Landfill

Waste Placement Map (2nd and 3rd Qtr 2025)

File: sites/badlands/25ba/projects/waste placement maps			Contours: Sept 2025
Drawn by: EZ	Checked by: SNL	Date : Oct. 30, 2025	Scale: 500:1

Appendix B – Monthly Site Inspections

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Date: April 04, 2025

To: Jeff Gow, Assistant Chief Engineer
Sarah Lunetta, Principal Engineer
Kevin Joyce, Senior Civil Engineer
Scott Kraak, Principal Engineering Technician
Jake Hull, Engineering Aide

From: Michael Ray, Senior Engineering Technician

RE: Badlands Landfill – Monthly Drainage Inspection Report – April 2025

Enclosed please find the following documents that constitute the Badlands Monthly Drainage Inspection Report for April 2025:

- BMP Storm Preparation, Protective Cover Soil & Site Maintenance List for the period of March 11, 2025, to April 10, 2025. The list contains an associated priority task photo insert with corresponding map.
- Monthly Site Development Photographs with associated map showing photo location and camera lens direction for each photograph. These photographs provide a comprehensive overview of the disturbed portions of the landfill as a monthly snapshot in time for comparing with previous and future Site Development Photograph sets for both project work review and site archival purposes.

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

BADLANDS LANDFILL
BMP STORM PREPARATION, PROTECTIVE COVER SOIL & SITE MAINTENANCE LIST
March 11, 2024, to April 10, 2025

BMP STORM PREPARATION

Drainage Structures:

* Landfill Operations – Debris and a roll of FML liner in north Bench P shotcrete drainage channel.
* Landfill Operations – Damaged shotcrete drainage channel west of residential pad.

Erosion(s):

* Landfill Operations – Erosion observed on slope south of Traffic Control trailer.
* Landfill Operations – Erosion observed south of the new AC customer access road.
* Landfill Operations – Sediment from slope erosion observed at the south end of the new AC customer access road.
* Landfill Operations – Hinge erosion observed north of the P2S1 expansion area.

Settlement – Fissuring & Ponding: Other:

* Landfill Operations – Fissuring along hinge of Bench 220 caused by erosion at the toe of the slope.

PCS - Installation Record for this Monthly Period

Locations and corresponding dates: None

PCS - Maintenance of In-Place System

PCS Repairs done in P2S1 Expansion, cut area C-2 below the north access road. 02-21-2025
PCS Repairs done in P2S1 Expansion, cut area C-2 below the north access road. 02-24-2025

SITE MAINTENANCE

Fences & Gates:

Buildings:

Roads:

* Landfill Operations – Sediment track-out observed on the landfill exit lane.

Signs (Traffic & Information Types):

* Landfill Operations – Dirty object markers at the Ironwood Avenue Western Stockpile drain inlet.
* Landfill Operations – Observed unprotected earthen material stockpile near east Bench P drain inlet.

Tarp Status (Badlands):

IN-SERVICE TARP #(s)	
BATARP-67	BATARP-82
BATARP-72	BATARP-84
BATARP-74	BATARP-85
BATARP-75	
BATARP-76	
BATARP-78	
BATARP-79	
BATARP-80	

STORED TARP #(s)
BATARP-86
BATARP-87
BATARP-88
BATARP-89
BATARP-90
BATARP-91
BATARP-92
BATARP-93

List Date: 04/04/2025

Asterisk (*) represents a Priority Item.
Asterisk (**) represents an item that requires material from the Material Stockpile.
PD# 327559 V4
This list was created on 04/04/2025 for inclusion into the Monthly Drainage Inspection Report due 04/10/2025.


Debris and a roll of FML liner in north Bench P shotcrete drainage channel.


Damaged shotcrete drainage channel west of residential pad.


Erosion observed on slope south of Traffic Control trailer.


Erosion observed south of the
new AC customer access road.


Sediment from slope erosion observed at the south end of the new AC customer access road.

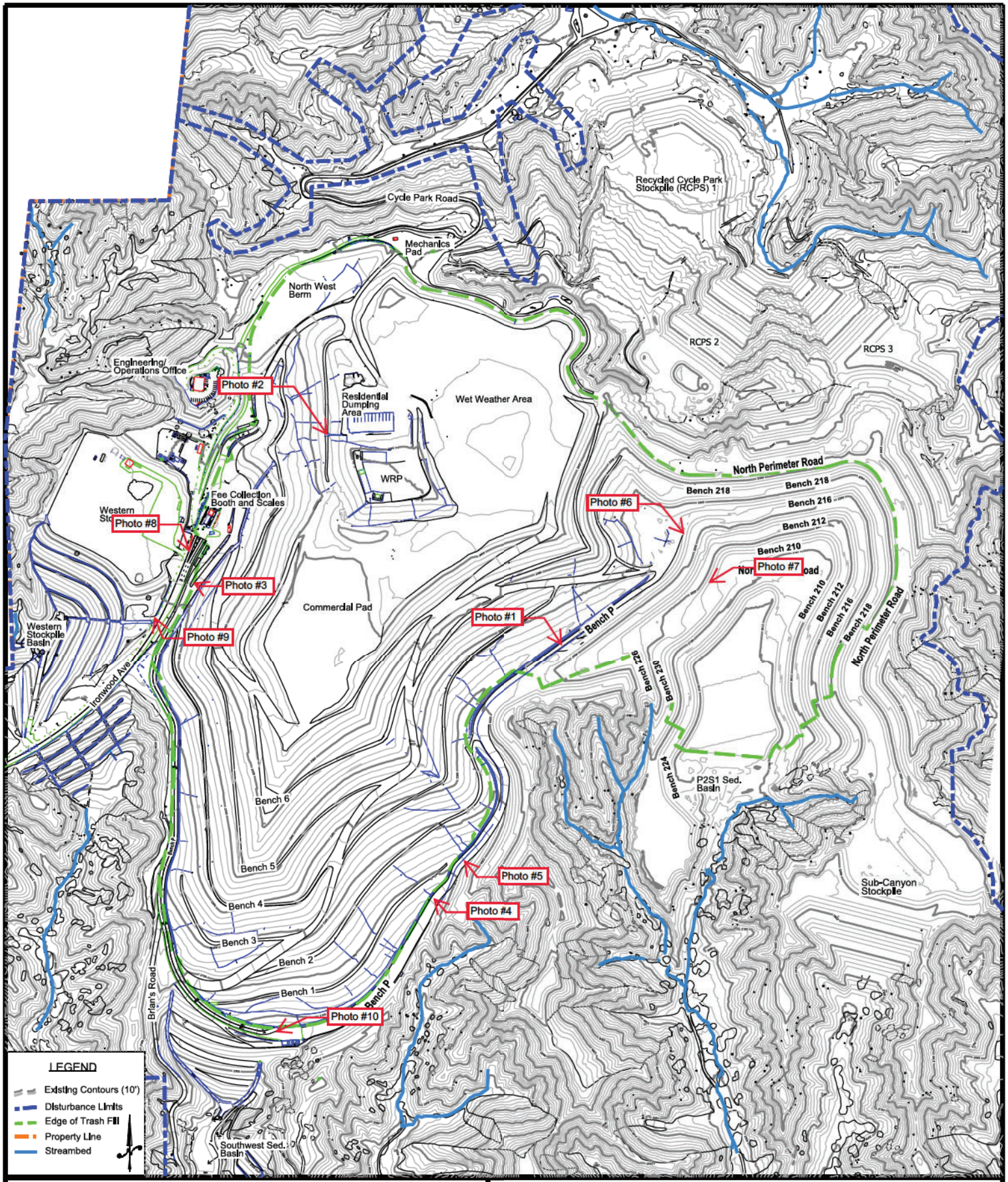

Hinge erosion observed north of the P2S1 expansion area.


Fissuring along hinge of Bench 220 caused by erosion at the toe of the slope.


STOP
WAIT UNTIL
SCALE
CLEARS
Sediment track-out observed on the landfill exit lane.


9%
GRADE
Dirty object markers at the Ironwood Avenue Western Stockpile drain inlet.


Observed unprotected earthen material stockpile near east Bench P drain inlet.



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez — General Manager-Chief Engineer

Badlands Sanitary Landfill

Site Map 2025

FILE:	K:Sites/Badlands/25ba/Projects/MonthlySiteDevelopmentMap		
Site Map 2025.dgn	TOPO DATE: Dec. 2024	SCALE: 1" = 600'	

Badlands Landfill
Site Development Photographs
April 2025 (photos taken on April 09, 2025)

Photos #1-5 from Engineering/Operations Parking Lot (Location A)



Photo #1 - Looking northeast across Canyon 1 towards mechanics' pad



Photo #2 - Looking east across Canyons 1& 2 expansion phases



Photo #3 - Looking southeast across Canyon 3 expansion phase



Photo # 4 - Looking south across pre-liner era landfill cell towards Canyon 4



Photo # 5 - Looking south southwest towards fee booth/site entrance gate area

Photos #6-11 from Canyon 4 knoll (Location B)



Photo #6 - Looking south across lined area of Canyon 4 east slopes

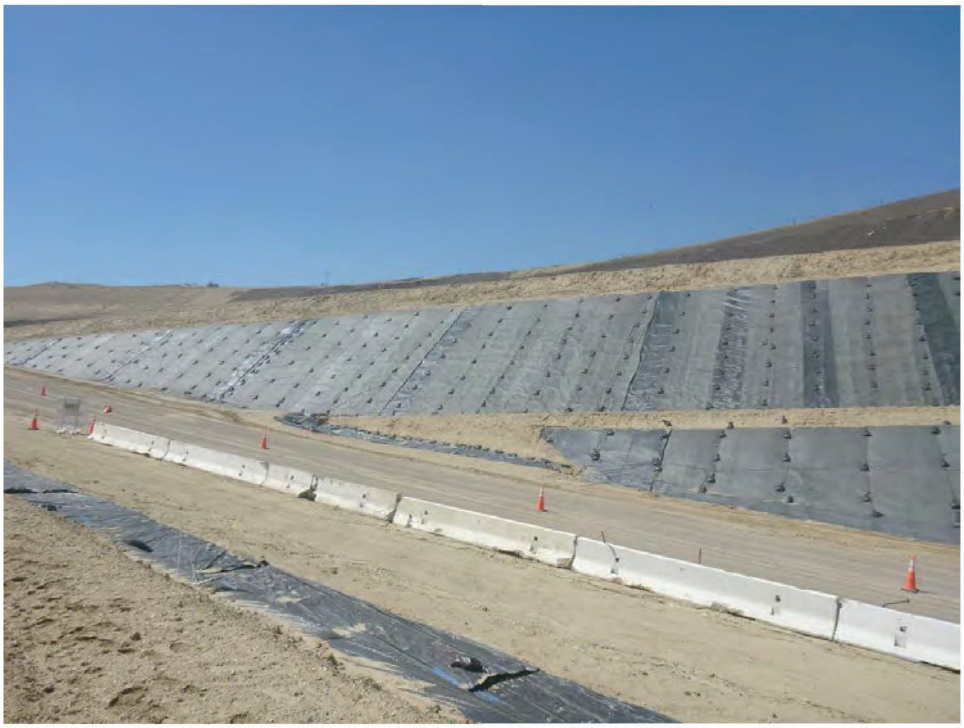


Photo #7 - Looking southwest towards lined area of Canyon 4 west slopes



Photo #8 - Looking west across Canyon 4 & the pre-liner era landfill cell



Photo #9 - Looking northwest towards the site entrance/fee booth area



Photo #10 - Looking north across Canyons 3, 2 and 1



Photo #11 – Looking northeast across Canyon 3

Photos #12-13 from the access road in Canyon 4 (Location C)



Photo #12 – Looking north towards LCRS Drainage System & Canyon 4 drainage course



Photo #13 – Looking south towards southwest sedimentation basin

Photos #14 from P2S1 Bench (Location D)



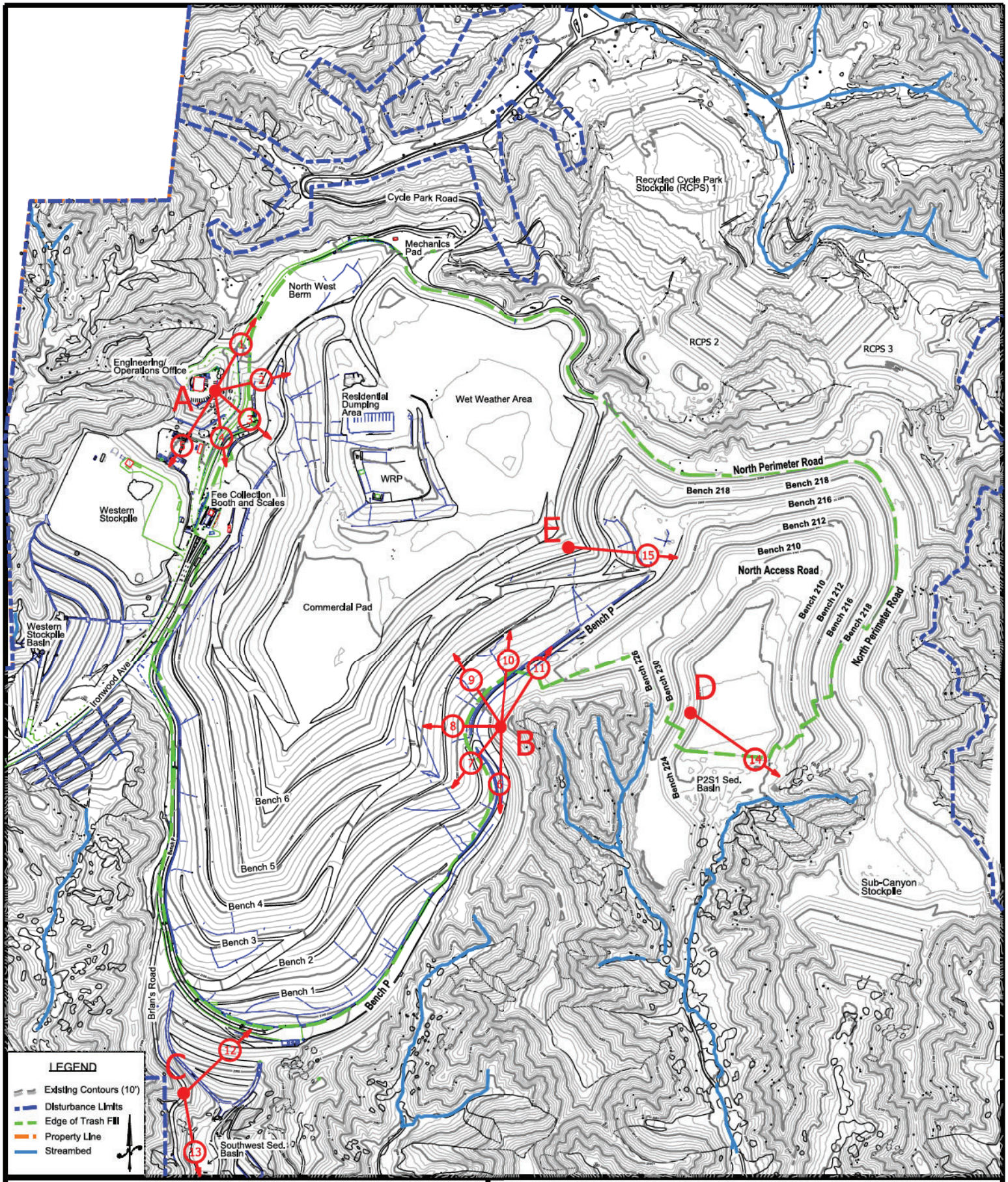
Photo #14 from P2S1 Bench 224 to P2S1 sediment basin

Badlands Landfill
Site Development Photographs
April 2025 (photos taken on April 09, 2025)

Photos #15 from C4P2 to P2S1 (Location E)



Photo #15 from C4P2 to P2S1



RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez — General Manager-Chief Engineer

Badlands Sanitary Landfill
Site Map 2025

FILE:	K:Sites/Badlands/25ba/Projects/MonthlySiteDevelopmentMap		
Site Map 2025.dgn	TOPO DATE: Dec. 2024	SCALE: 1" = 600'	

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Date: May 01, 2025

To: Jeff Gow, Assistant Chief Engineer
Sarah Lunetta, Principal Engineer
Kevin Joyce, Senior Civil Engineer
Scott Kraak, Principal Engineering Technician
Jake Hull, Engineering Aide

From: Michael Ray, Senior Engineering Technician

RE: Badlands Landfill – Monthly Drainage Inspection Report – May 2025

Enclosed please find the following documents that constitute the Badlands Monthly Drainage Inspection Report for May 2025:

- BMP Storm Preparation, Protective Cover Soil & Site Maintenance List for the period of April 11, 2025, to May 10, 2025. The list contains an associated priority task photo insert with corresponding map.
- Monthly Site Development Photographs with associated map showing photo location and camera lens direction for each photograph. These photographs provide a comprehensive overview of the disturbed portions of the landfill as a monthly snapshot in time for comparing with previous and future Site Development Photograph sets for both project work review and site archival purposes.

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

BADLANDS LANDFILL
BMP STORM PREPARATION, PROTECTIVE COVER SOIL & SITE MAINTENANCE LIST
April 11, 2025, to May 10, 2025

BMP STORM PREPARATION

Drainage Structures:

* Landfill Operations – Debris and dried vegetation in north Bench P shotcrete drainage channel.
* Landfill Operations – Damaged shotcrete drainage channel west of residential pad.
* Landfill Operations – Visqueen liner drain next to Bench P/Bench 216 needs to be repaired.

Erosion(s):

* Landfill Operations – Erosion observed adjacent to the entrance of Bench 212.
* Landfill Operations – Erosion observed adjacent to shotcrete drainage channel on northeast section of north perimeter road.

Settlement – Fissuring & Ponding: Other:

* Landfill Operations – Fissuring observed along the hinge of Bench 210.
* Landfill Operations – Exposed trash observed on lower bench road of west facing C4P3 slope.

PCS - Installation Record for this Monthly Period

P2S1 PCS Placement 05-08-2025

PCS - Maintenance of In-Place System

SITE MAINTENANCE

Fences & Gates:

Buildings:

Roads:

* Landfill Operations – Uneven base material road surface developing just passed the fee booth.
* Landfill Operations – Clean the rumble racks going to the commercial dumping pad.
* Landfill Operations – Clean the rumble racks going to the residential dumping pad.

Signs (Traffic & Information Types):

Tarp Status (Badlands):

IN-SERVICE TARP #(s)	
BATARP-72	BATARP-85
BATARP-74	BATARP-86
BATARP-75	BATARP-87
BATARP-78	BATARP-88
BATARP-79	BATARP-89
BATARP-80	
BATARP-82	
BATARP-84	

STORED TARP #(s)
BATARP-90
BATARP-91
BATARP-92
BATARP-93
BATARP-94
BATARP-95
BATARP-96
BATARP-97

List Date: 05/01/2025

Asterisk (*) represents a Priority Item.
Asterisk (**) represents an item that requires material from the Material Stockpile.
PD# 327559 V5
This list was created on 05/01/2025 for inclusion into the Monthly Drainage Inspection Report due 05/10/2025.





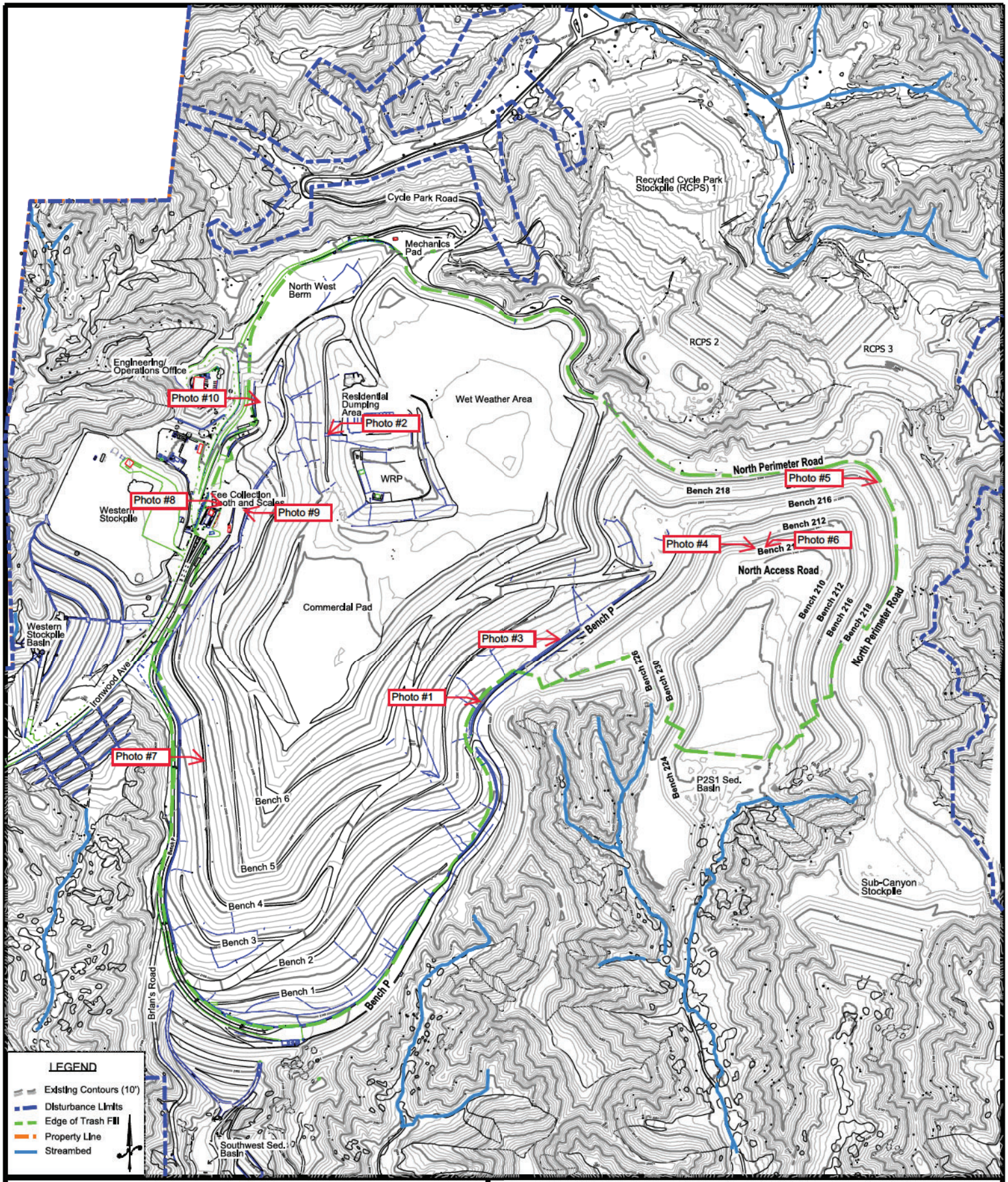







BUMP





RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez — General Manager-Chief Engineer

Badlands Sanitary Landfill
Site Map 2025

FILE:	K:Sites/Badlands/25ba/Projects/MonthlySiteDevelopmentMap		
Site Map 2025.dgn	TOPO DATE: Dec. 2024	SCALE: 1" = 600'	

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)

Photos #1-5 from Engineering/Operations Parking Lot (Location A)



Photo #1 - Looking northeast across Canyon 1 towards mechanics' pad



Photo #2 - Looking east across Canyons 1& 2 expansion phases



Photo #3 - Looking southeast across Canyon 3 expansion phase



Photo # 4 - Looking south across pre-liner era landfill cell towards Canyon 4



Photo # 5 - Looking south southwest towards fee booth/site entrance gate area

Photos #6-11 from P2S1 knoll (Location B)



Photo #6 - Looking north of P2S1 customer access road



Photo #7 - Looking northwest towards lined area of P2S1 slopes



Photo #8 - Looking north towards lined area of P2S1 slopes

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)



Photo #9 - Looking northeast towards lined area of P2S1 slopes



Photo #10 - Looking east into P2S1 expansion area



Photo #11 – Looking southeast into P2S1 expansion area

Photos #12-13 from the access road in Canyon 4 (Location C)



Photo #12 – Looking north towards LCRS Drainage System & Canyon 4 drainage course



Photo #13 – Looking south towards southwest sedimentation basin

Photo #14 from Bench 224 looking southeast (Location D)

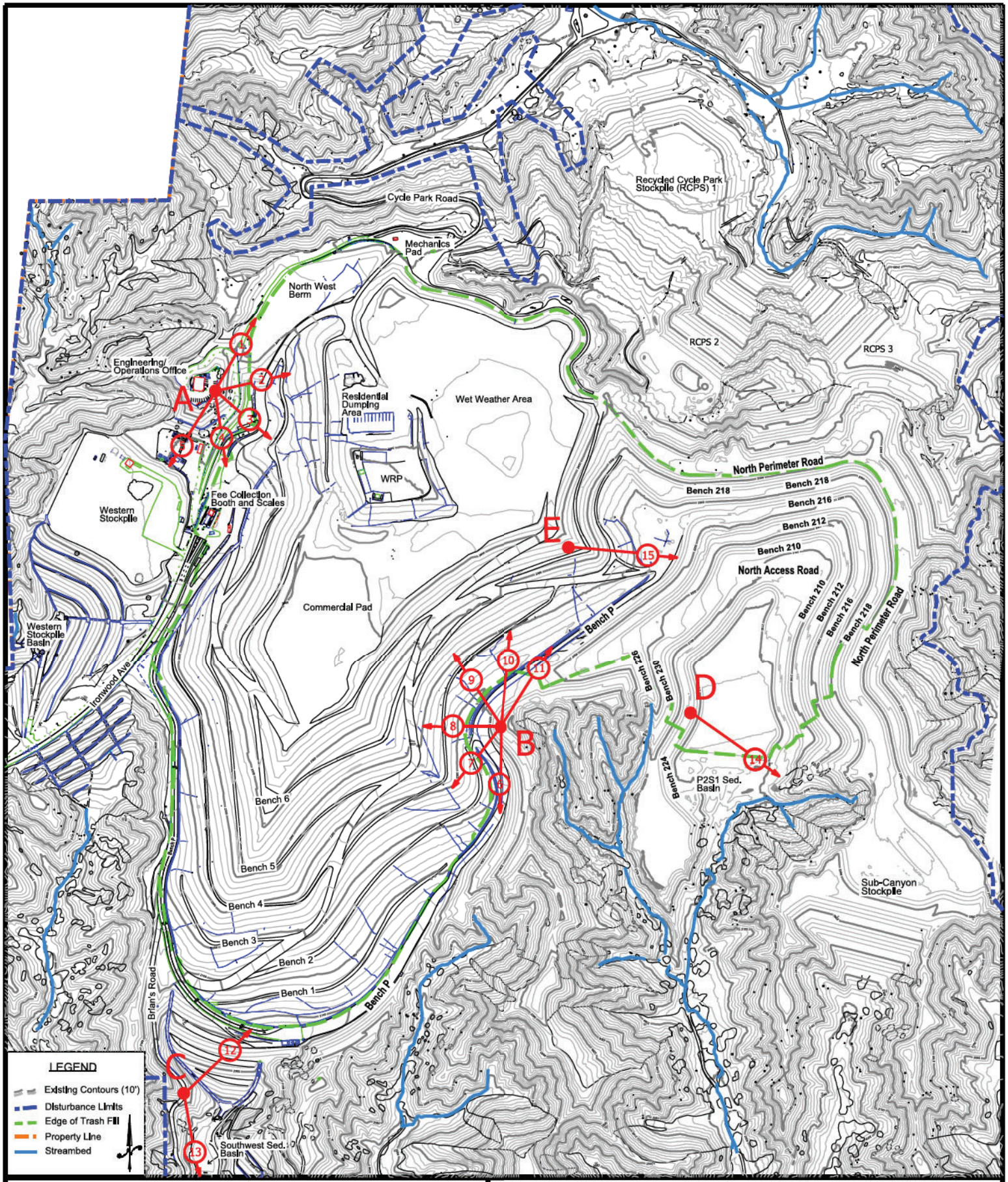


Photo #14 – Looking southeast towards P2S1 sedimentation basin

Photo #15 Slope below Wet Weather Pad (Location E)



Photo #15 – Looking east towards P2S1 expansion area



RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez — General Manager-Chief Engineer

Badlands Sanitary Landfill
Site Map 2025

FILE:	K:Sites/Badlands/25ba/Projects/MonthlySiteDevelopmentMap		
Site Map 2025.dgn	TOPO DATE: Dec. 2024	SCALE: 1" = 600'	

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Date: June 05, 2025

To: Jeff Gow, Assistant Chief Engineer
Sarah Lunetta, Principal Engineer
Kevin Joyce, Senior Civil Engineer
Scott Kraak, Principal Engineering Technician
Jake Hull, Engineering Aide

From: Michael Ray, Senior Engineering Technician

RE: Badlands Landfill – Monthly Drainage Inspection Report – June 2025

Enclosed please find the following documents that constitute the Badlands Monthly Drainage Inspection Report for June 2025:

- BMP Storm Preparation, Protective Cover Soil & Site Maintenance List for the period of May 11, 2025, to June 10, 2025. The list contains an associated priority task photo insert with corresponding map.
- Monthly Site Development Photographs with associated map showing photo location and camera lens direction for each photograph. These photographs provide a comprehensive overview of the disturbed portions of the landfill as a monthly snapshot in time for comparing with previous and future Site Development Photograph sets for both project work review and site archival purposes.

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

BADLANDS LANDFILL
BMP STORM PREPARATION, PROTECTIVE COVER SOIL & SITE MAINTENANCE LIST
May 11, 2025, to June 10, 2025

BMP STORM PREPARATION

Drainage Structures:

* Landfill Operations – Dried vegetation in the north Bench P shotcrete drainage channel.
* Landfill Operations – Damaged shotcrete drainage channel west of residential dumping pad.

Erosion(s):

* Landfill Operations – Erosion at concrete inlet drainage pad in RCPS-2/F-4.
* Landfill Operations – Erosion observed adjacent to the plastic liner drainage channel near Bench P.
* Landfill Operations – Erosion observed adjacent to shotcrete drainage channel on northeast section of north perimeter road.
* Landfill Operations – Erosion observed at toe of the slope below Bench 210 in P2S1 expansion area.

Settlement – Fissuring & Ponding: Other:

PCS - Installation Record for this Monthly Period

P2S1 PCS Placement 05-08-2025, P2S1 PCS Placement 05-12-2025, P2S1 PCS Placement 05-14-2025, P2S1 PCS Placement 05-27-2025, P2S1 PCS Placement 05-30-2025

PCS - Maintenance of In-Place System

SITE MAINTENANCE

Fences & Gates:

* Landfill Operations – Long vegetation on west facing Pre-Liner cell slope.
* Landfill Operations – Repair slope berm on northeast facing C4P2 slope.

Buildings:

Roads:

* Landfill Operations – Observed exposed trash embedded in west facing Pre-Liner cell bench road.
* Landfill Operations – Uneven base material road surface developing just passed the fee booth.
* Landfill Operations – Sun faded and worn speed hump thermoplastic markings on west AC customer access road.
* Landfill Operations – Clean the rumble racks going to the commercial dumping pad.

Signs (Traffic & Information Types):

Tarp Status (Badlands):

IN-SERVICE TARP #(s)	
BATARP-72	BATARP-85
BATARP-74	BATARP-86
BATARP-75	BATARP-87
BATARP-78	BATARP-88
BATARP-79	BATARP-89
BATARP-80	
BATARP-82	
BATARP-84	

STORED TARP #(s)
BATARP-90
BATARP-91
BATARP-92
BATARP-93
BATARP-94
BATARP-95
BATARP-96
BATARP-97

List Date: 05/06/2025

Asterisk (*) represents a Priority Item.
Asterisk (**) represents an item that requires material from the Material Stockpile.
PD# 327559 V6
This list was created on 06/06/2025 for inclusion into the Monthly Drainage Inspection Report due 06/10/2025.













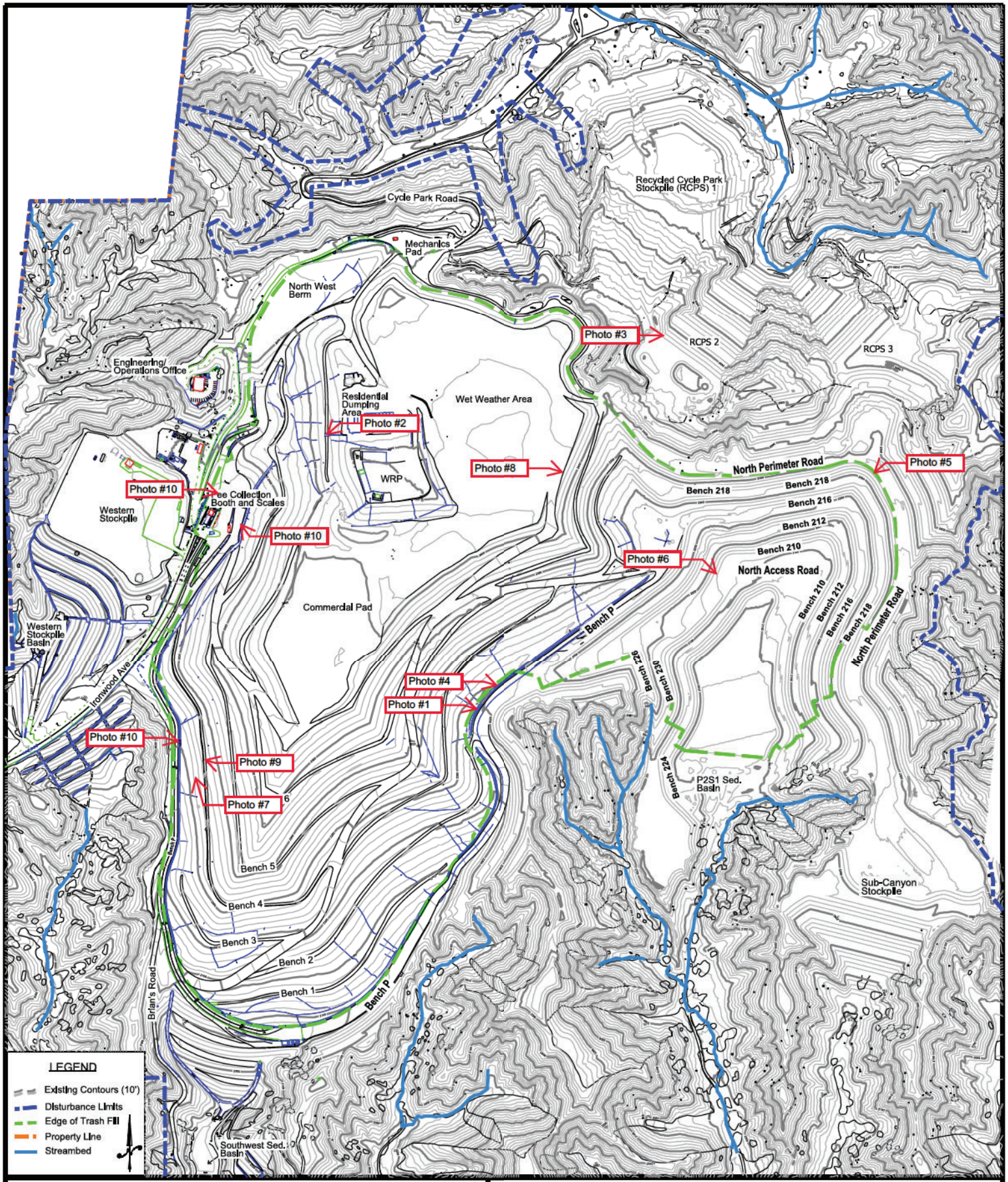







BUMP
STOP





RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez — General Manager-Chief Engineer

Badlands Sanitary Landfill
Site Map 2025

FILE:	K:Sites/Badlands/25ba/Projects/MonthlySiteDevelopmentMap		
Site Map 2025.dgn	TOPO DATE: Dec. 2024	SCALE: 1" = 600'	

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)

Photos #1-5 from Engineering/Operations Parking Lot (Location A)



Photo #1 - Looking northeast across Canyon 1 towards mechanics' pad



Photo #2 - Looking east across Canyons 1& 2 expansion phases

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)



Photo #3 - Looking southeast across Canyon 3 expansion phase



Photo # 4 - Looking south across pre-liner era landfill cell towards Canyon 4



Photo # 5 - Looking south southwest towards fee booth/site entrance gate area

Photos #6-11 from P2S1 knoll (Location B)



Photo #6 - Looking north of P2S1 customer access road

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)



Photo #7 - Looking northwest towards lined area of P2S1 slopes



Photo #8 - Looking north towards lined area of P2S1 slopes

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)



Photo #9 - Looking northeast towards lined area of P2S1 slopes



Photo #10 - Looking east into P2S1 expansion area

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)



Photo #11 – Looking southeast into P2S1 expansion area

Photos #12-13 from the access road in Canyon 4 (Location C)



Photo #12 – Looking north towards LCRS Drainage System & Canyon 4 drainage course

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)



Photo #13 – Looking south towards southwest sedimentation basin

Photo #14 from Bench 224 looking southeast (Location D)



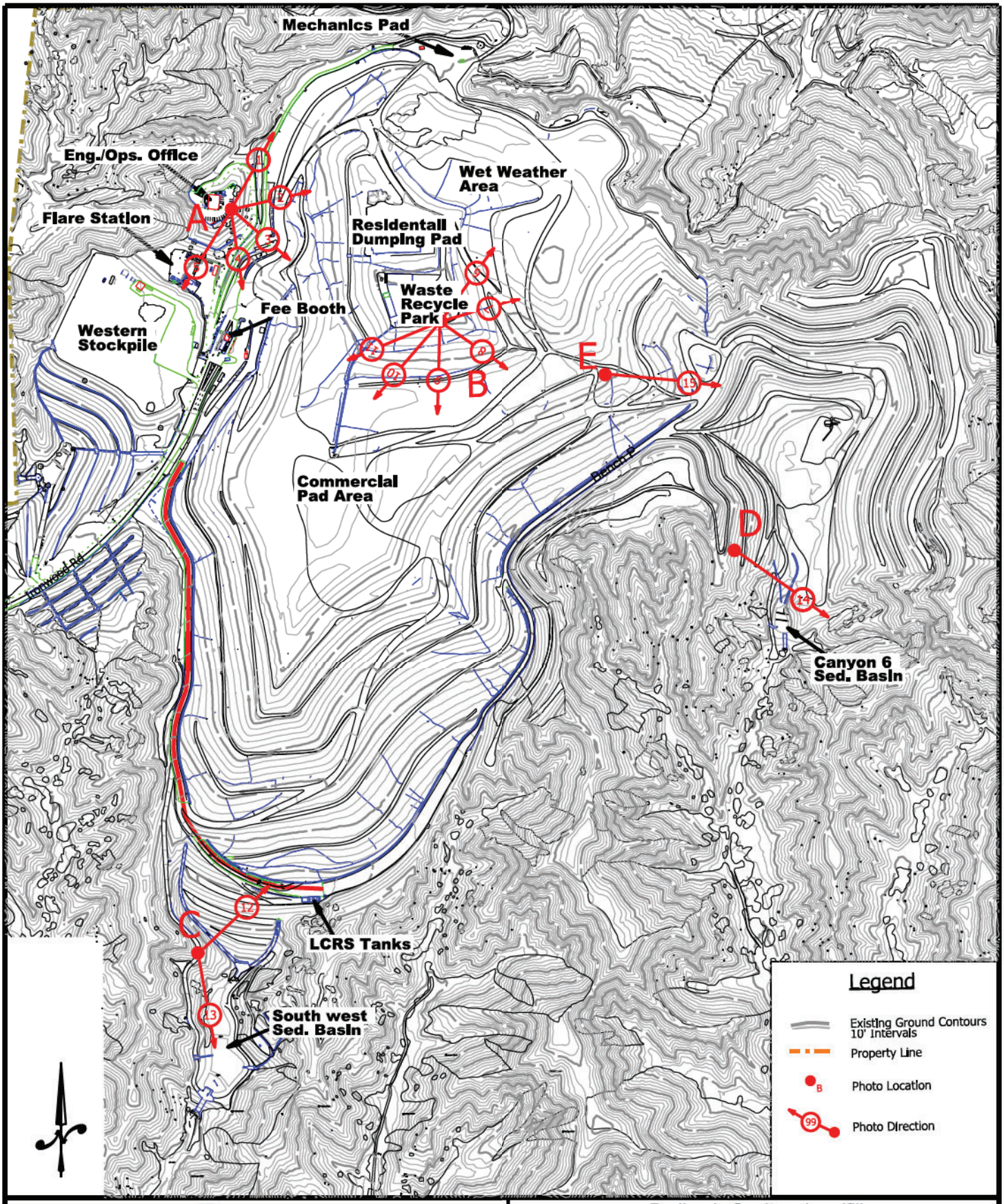
Photo #14 – Looking southeast towards P2S1 sedimentation basin

Badlands Landfill
Site Development Photographs
May 2025 (photos taken on May 02, 2025)

Photo #15 Slope below Wet Weather Pad (Location E)



Photo #15 – Looking east towards P2S1 expansion area



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Hans Kernkamp, General Manager-Chief Engineer

Badlands Sanitary Landfill

Site Map

Scale: 1" = 600'

0 300 600 900 1200 1500

Datum is mean sea level Contour Interval is 10 feet

Project Title:	Site Development	Designed By:	JV	Scale:	1"=600'
File:	K\Sites\Badlands\24ba\Projects\Monthly\Drain.Insp.Report\Site Map.dgn	Drawn By:	JV	Survey:	Dec 2023
Model Name:	Main Map	Checked By:	KJJ	Flight Date:	Aug 2022

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Date: July 29, 2025

To: Jeff Gow, Assistant Chief Engineer
Sarah Lunetta, Principal Engineer
Todd Shibata, Principal Engineer
Brian Hawkinson, Senior Civil Engineer
Panda Workman, Associate Engineer
Scott Kraak, Principal Engineering Technician
Jake Hull, Engineering Technician I

From: Michael Ray, Senior Engineering Technician

RE: Badlands Landfill – Monthly Drainage Inspection Report – July 2025

Enclosed please find the following documents that constitute the Badlands Monthly Drainage Inspection Report for July 2025:

- BMP Storm Preparation, Protective Cover Soil & Site Maintenance List for the period of June 11, 2025, to July 10, 2025. The list contains an associated priority task photo insert with corresponding map.
- Monthly Site Development Photographs with associated map showing photo location and camera lens direction for each photograph. These photographs provide a comprehensive overview of the disturbed portions of the landfill as a monthly snapshot in time for comparing with previous and future Site Development Photograph sets for both project work review and site archival purposes.

Badlands MDIR - NPDES Pre-Storm/Post-Storm Site Inspection

Inspection Type: Monthly MDIR ■ Pre-Storm ☐ Post-Storm ☐ Probability of Measurable Precipitation: Total Rain Fall:

Section A: Site Information

Facility: Badlands Sanitary Landfill - 31125 Ironwood Avenue, Moreno Valley CA 92553

Inspection Date and Time 7/2/25 11:41

Inspected By: Michael Ray

Inspector Title: Senior Engineering Technician Inspector Signature: Michael Ray Digitally signed by Michael Ray Date: 2025.07.29 08:08:52 -07'00'

Reviewed By:

Reviewers Title:

Weather conditions during inspection: Partly Cloudy

Is the site currently wet or dry? Dry

Section B: Site Observations

Site Erosions and Erosion Control	Photo#	YES	NO	N/A
Have BMPs been installed at the site?		◉	○	○
Is the landfill generally free from soil erosion?		◉	○	○
Are the Geotextiles/temporary liner that are used for erosion control in good condition and functioning?	1	○	◉	○
Has a BMP been implemented (e.g. berm/sediment barrier) around the stockpile(s) at the site?		○	◉	○
Is a water truck currently being used on site?		◉	○	○
Are the roads being properly watered for dust control?		◉	○	○

Comments:

Non-Stormwater Management, Material Management, & Source Control BMPs	Photo#	YES	NO	N/A
Does the landfill have adequate cover (interim cover/closure cap)?		◉	○	○
Is the active daily cover being properly maintained?		◉	○	○

Comments:

Roads, Signs, and Traffic control devices	Photo#	YES	NO	N/A
Are the landfill roads being maintained and in good condition?		◉	○	○
Is the entrance road free of sedimentation track-out?	2	○	◉	○
Is the landfill road stripping in good condition?	3	○	◉	○
Are the traffic control signs and devices in good condition and functioning as intended ?	4	○	◉	○
Are the "No Trespassing" signs in good condition?		◉	○	○

Comments:

Gates and Fences	Photo#	YES	NO	N/A
Are the landfill gates working and in good condition?		◉	○	○
Are any landfill perimeter fences in need of repair?		○	◉	○

Comments:

Buildings	Photo#	YES	NO	N/A
Are the landfill buildings in good condition and free from any obvious safety issues?		◉	○	○

Comments:

Settlement, Fissuring, Ponding	Photo#	YES	NO	N/A
Is the landfill free of settlement?		○	◉	○
Is the landfill free of ponding?		◉	○	○
Is the landfill free of fissuring?	5	○	◉	○

Comments:

Drainage Structures	Photo#	YES	NO	N/A
Are landfill drainage structures in good condition and functioning?	6	○	◉	○
Are berms, swales, down-drains, and velocity dissipaters in good condition and functioning?		◉	○	○

Comments:

Canyon 4 Sedimentation Basin	Photo#	YES	NO	N/A
Is the Canyon 4 sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		○	◉	○

Comments:

P2S1 Sedimentation Basin	Photo#	YES	NO	N/A
Is the P2S1 sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		◉	○	○

Comments:

Western Stockpile Sedimentation Basin	Photo#	YES	NO	N/A
Is the Western Stockpile sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		○	◉	○

Comments:

Metallic's/Recycling/Trash Disposal Area	Photo#	YES	NO	N/A
Are trash bin lids closed (maintenance & administrative sides)?		◉	○	○
Trash bin area ground free of litter/boxes/etc. (box car/office areas)?		○	○	◉
Is the metallic's/recycling area neat, orderly, and free of leaks?		◉	○	○

Comments:

Household Hazardous Waste Area	Photo#	YES	NO	N/A
Is the household hazardous waste facility neat and orderly?		◉	○	○
Are the containers in the used oil/waste facility labeled clearly as to their contents?		◉	○	○
Are materials (such as fuel, oil, antifreeze, used oil, etc.) properly delivered and stored at the site?		◉	○	○
Are portable toilets located away from drainage courses?		◉	○	○

Comments:

NPDES - Vehicle/Heavy Equipment Maintenance/Storage/Fueling Area	Photo#	YES	NO	N/A
Is the diesel tank's secondary containment structure in good condition?		◉	○	○
Are the fuel hoses contained within the secondary containment structure?		◉	○	○
Is the area surrounding the fueling area free of spills/leaks?		◉	○	○
Are spills cleaned up in a timely manner?		◉	○	○
Appropriate spill containment & cleanup materials kept on-site & in a convenient location?		◉	○	○
Is equipment cleaning occurring on-site?		◉	○	○
If Yes, are BMPs being properly used so as to not create NON-STORMWATER discharges?		◉	○	○
Are drip pans being effectively used in the equipment maintenance/repair area?		○	◉	○
Are the waste fluids/oil filters/used oil stored in closed containers and in secondary containment?		◉	○	○
Is the used oil/waste facility free of accumulated rainwater and spills?		◉	○	○
Is the Vehicle Parking Area free of leaks & drips?		◉	○	○
Appropriate spill containment & cleanup materials kept on-site & in a convenient location for use in the parking lot?		◉	○	○

Comments:

Section C: UNAUTHORIZED NON-STORMWATER DISCHARGES	Photo#	YES	NO	N/A
Is the site free from any unauthorized non-stormwater discharges during this inspection?		◉	○	○
Is the site free from any indications of prior unauthorized non-stormwater discharges during this inspection?		○	○	○

If yes, please state the source.

Comments:

At this time there are NO authorized non-storm discharges at the site.		◉	○	○

Comments:

Any Additional Comments:



Photo #1— Visqueen liner is damaged.



Photo #2— Sediment track out observed on the landfill exit lane.



Photo #3— Landfill thermoplastic striping is worn and faded.



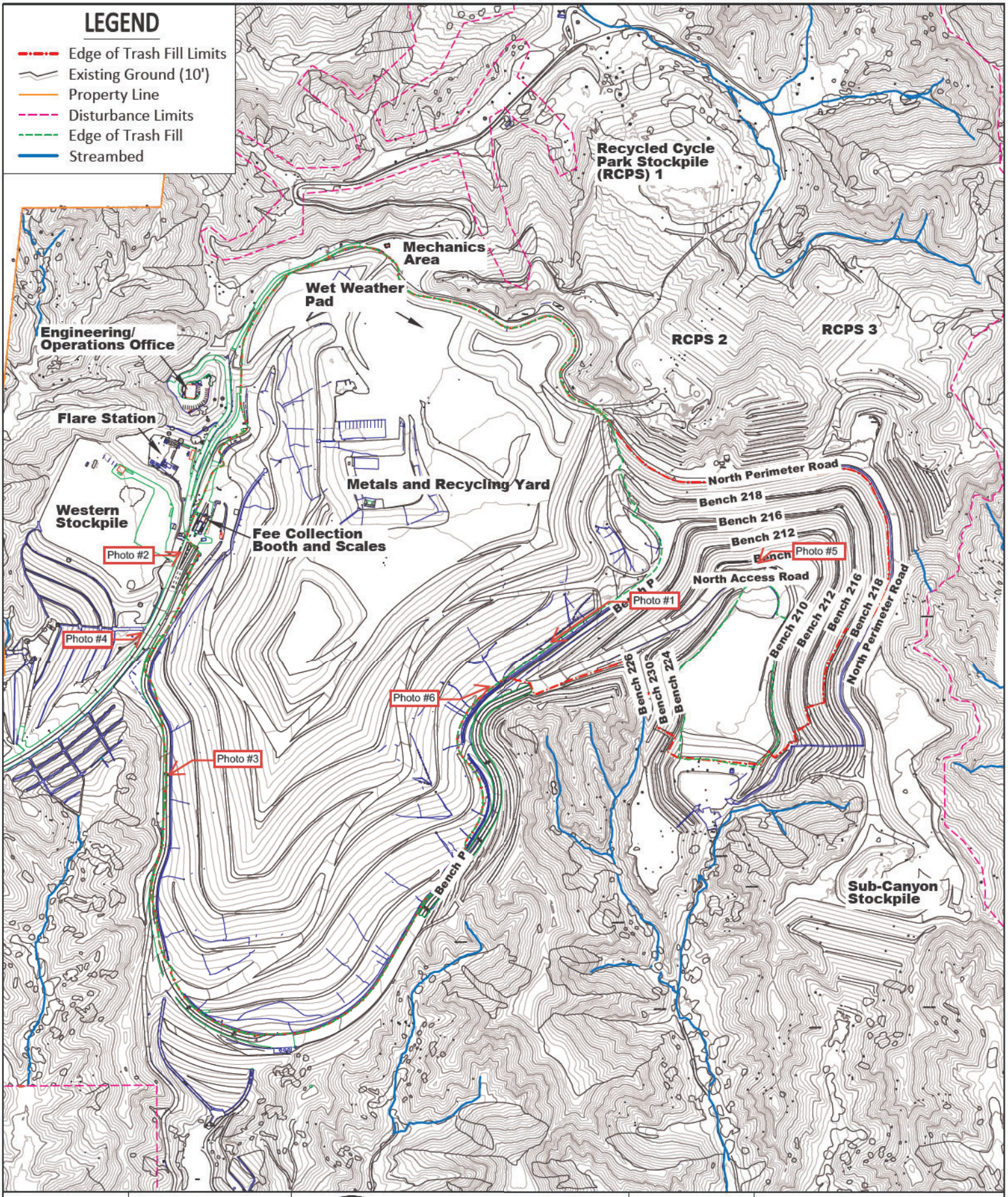
Photo #4— Damaged object marker along exit lane.



Photo #5— Fissuring observed Along the hinge of Bench 210.



Photo #6— Sediment observed in visqueen lined drainage channel.



DESIGNED BY:	–
DRAWN BY:	AK
CHECKED BY:	BH
DRAWING DATE:	07/09/2025
FLIGHT TOPO DATE:	N/A
FIELD TOPO DATE:	06/30/2025

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 600' (8.5" x 11")

0 300 600 900 1200 1500

Datum is mean sea level

Badlands Sanitary Landfill

Pre/Post Storm NPDES Inspection Report

Site Map

K:\Sites\Badlands\25bal\Site Map Update\Updated Site Map July 2025.dwg

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Date: August 12, 2025

To: Jeff Gow, Assistant Chief Engineer
Sarah Lunetta, Principal Engineer
Todd Shibata, Principal Engineer
Brian Hawkinson, Senior Civil Engineer
Panda Workman, Associate Engineer
Scott Kraak, Principal Engineering Technician
Jake Hull, Engineering Technician I

From: Michael Ray, Senior Engineering Technician

RE: Badlands Landfill – Monthly Drainage Inspection Report – August 2025

Enclosed please find the following documents that constitute the Badlands Monthly Drainage Inspection Report for August 2025:

- BMP Storm Preparation, Protective Cover Soil & Site Maintenance List for the period of July 11, 2025, to August 10, 2025. The list contains an associated priority task photo insert with corresponding map.
- Monthly Site Development Photographs with associated map showing photo location and camera lens direction for each photograph. These photographs provide a comprehensive overview of the disturbed portions of the landfill as a monthly snapshot in time for comparing with previous and future Site Development Photograph sets for both project work review and site archival purposes.

Badlands MDIR - NPDES Pre-Storm/Post-Storm Site Inspection

Inspection Type: Monthly MDIR ■ Pre-Storm ☐ Post-Storm ☐ Probability of Measurable Precipitation: Total Rain Fall:

Section A: Site Information

Facility: Badlands Sanitary Landfill - 31125 Ironwood Avenue, Moreno Valley CA 92553

Inspection Date and Time 8/12/25 12:35

Inspected By: Michael Ray

Inspector Title: Senior Engineering Technician Inspector Signature: Michael Ray Digitally signed by Michael Ray Date: 2025.08.20 07:00:33 -07'00'

Reviewed By:

Reviewers Title:

Weather conditions during inspection: Clear 91.8 °F

Is the site currently wet or dry? Dry

Section B: Site Observations

Site Erosions and Erosion Control	Photo#	YES	NO	N/A
Have BMPs been installed at the site?		◉	○	○
Is the landfill generally free from soil erosion?	1	○	◉	○
Are the Geotextiles/temporary liner that are used for erosion control in good condition and functioning?		○	○	◉
Has a BMP been implemented (e.g. berm/sediment barrier) around the stockpile(s) at the site?		○	◉	○
Is a water truck currently being used on site?		◉	○	○
Are the roads being properly watered for dust control?		◉	○	○

Berm on lower southwest facing slope needs to be repaired. - Photo #2

Non-Stormwater Management, Material Management, & Source Control BMPs	Photo#	YES	NO	N/A
Does the landfill have adequate cover (interim cover/closure cap)?		◉	○	○
Is the active daily cover being properly maintained?		◉	○	○

Comments:

Roads, Signs, and Traffic control devices	Photo#	YES	NO	N/A
Are the landfill roads being maintained and in good condition?		◉	○	○
Is the entrance road free of sedimentation track-out?		◉	○	○
Is the landfill road stripping in good condition?	3	○	◉	○
Are the traffic control signs and devices in good condition and functioning as intended ?	4	○	◉	○
Are the "No Trespassing" signs in good condition?		◉	○	○

Comments:

Gates and Fences	Photo#	YES	NO	N/A
Are the landfill gates working and in good condition?		◉	○	○
Are any landfill perimeter fences in need of repair?		○	◉	○

Comments:

Buildings	Photo#	YES	NO	N/A
Are the landfill buildings in good condition and free from any obvious safety issues?		◉	○	○

Comments:

Settlement, Fissuring, Ponding	Photo#	YES	NO	N/A
Is the landfill free of settlement?		◉	○	○
Is the landfill free of ponding?		◉	○	○
Is the landfill free of fissuring?		◉	○	○

Comments:

Drainage Structures	Photo#	YES	NO	N/A
Are landfill drainage structures in good condition and functioning?		◉	○	○
Are berms, swales, down-drains, and velocity dissipaters in good condition and functioning?	5	○	◉	○

Comments:

Canyon 4 Sedimentation Basin	Photo#	YES	NO	N/A
Is the Canyon 4 sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		◉	○	○

Comments:

P2S1 Sedimentation Basin	Photo#	YES	NO	N/A
Is the P2S1 sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?	6	◉	○	○

Comments: The litter fence down stream of the spillway is broken - Photo #7

Western Stockpile Sedimentation Basin	Photo#	YES	NO	N/A
Is the Western Stockpile sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		○	◉	○

Comments: Remove the dried vegetation and debris from the Western Stockpile Sedimentation Basin rip rap pad. - Photo #8

Metallic's/Recycling/Trash Disposal Area	Photo#	YES	NO	N/A
Are trash bin lids closed (maintenance & administrative sides)?		◉	○	○
Trash bin area ground free of litter/boxes/etc. (box car/office areas)?		◉	○	○
Is the metallic's/recycling area neat, orderly, and free of leaks?		◉	○	○

Comments:

Household Hazardous Waste Area	Photo#	YES	NO	N/A
Is the household hazardous waste facility neat and orderly?		◉	○	○
Are the containers in the used oil/waste facility labeled clearly as to their contents?		◉	○	○
Are materials (such as fuel, oil, antifreeze, used oil, etc.) properly delivered and stored at the site?		◉	○	○
Are portable toilets located away from drainage courses?		◉	○	○

Comments:

NPDES - Vehicle/Heavy Equipment Maintenance/Storage/Fueling Area	Photo#	YES	NO	N/A
Is the diesel tank's secondary containment structure in good condition?		◉	○	○
Are the fuel hoses contained within the secondary containment structure?		◉	○	○
Is the area surrounding the fueling area free of spills/leaks?		◉	○	○
Are spills cleaned up in a timely manner?		◉	○	○
Appropriate spill containment & cleanup materials kept on-site & in a convenient location?		◉	○	○
Is equipment cleaning occurring on-site?		◉	○	○
If Yes, are BMPs being properly used so as to not create NON-STORMWATER discharges?		◉	○	○
Are drip pans being effectively used in the equipment maintenance/repair area?		◉	○	○
Are the waste fluids/oil filters/used oil stored in closed containers and in secondary containment?		◉	○	○
Is the used oil/waste facility free of accumulated rainwater and spills?		◉	○	○
Is the Vehicle Parking Area free of leaks & drips?		◉	○	○
Appropriate spill containment & cleanup materials kept on-site & in a convenient location for use in the parking lot?		◉	○	○

Comments:

Section C: UNAUTHORIZED NON-STORMWATER DISCHARGES	Photo#	YES	NO	N/A
Is the site free from any unauthorized non-stormwater discharges during this inspection?		◉	○	○
Is the site free from any indications of prior unauthorized non-stormwater discharges during this inspection?		○	○	◉

If yes, please state the source.

Comments:

At this time there are NO authorized non-storm discharges at the site.		◉	○	○

Comments:

Any Additional Comments:



Photo #1— Erosion on southwest facing slope.



Photo #2— Berm on lower southwest facing slope needs to be repaired.



Photo #3— Landfill road stripping is worn and faded.



Photo #4— Damaged object marker.



Photo #5— Canyon 4 rip rap pad is filled with sediment.



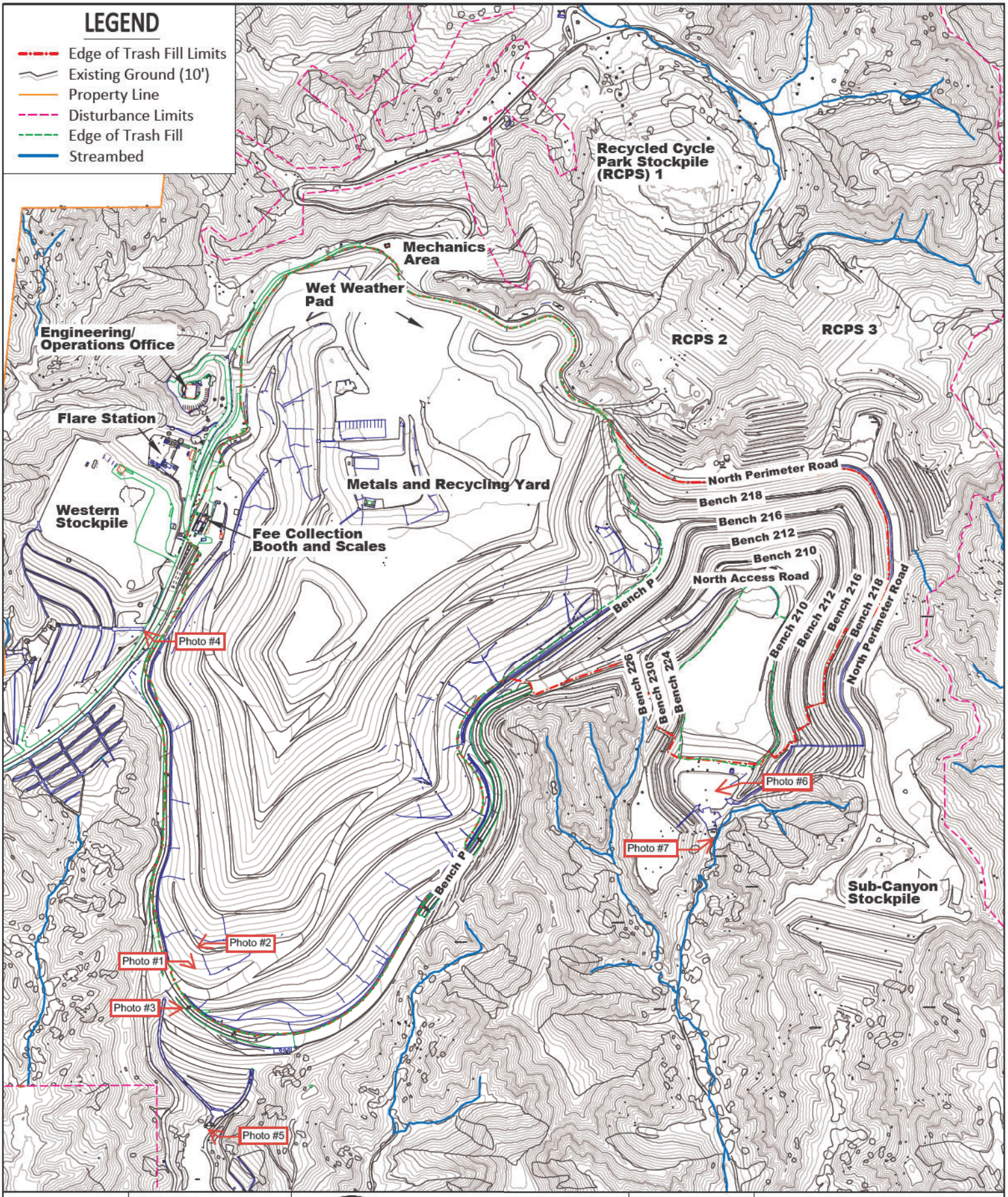
Photo #6— Sediment was removed from P2S1 sediment basin.



Photo #7— P2S1 sediment basin rip rap pad litter fence is damaged.



Photo #8— Remove the dried vegetation and debris from the Western Stockpile Sedimentation Basin rip rap pad.



DESIGNED BY:	–
DRAWN BY:	AK
CHECKED BY:	BH
DRAWING DATE:	07/09/2025
FLIGHT TOPO DATE:	N/A
FIELD TOPO DATE:	06/30/2025

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Scale: 1" = 600' (8.5" x 11")

0 300 600 900 1200 1500

Datum is mean sea level

Badlands Sanitary Landfill

Pre/Post Storm NPDES Inspection Report

Site Map

SHEET: 11 OF 11

K:\Sites\Badlands\25bal\Site Map Update\Updated Site Map July 2025.dwg

RIVERSIDE COUNTY
DEPARTMENT OF
WASTE RESOURCES

Andy Cortez, General Manager-Chief Engineer

Date: September 03, 2025

To: Jeff Gow, Assistant Chief Engineer
Sarah Lunetta, Principal Engineer
Todd Shibata, Principal Engineer
Brian Hawkinson, Senior Civil Engineer
Panda Workman, Associate Engineer
Scott Kraak, Principal Engineering Technician
Jake Hull, Engineering Technician I

From: Michael Ray, Senior Engineering Technician

RE: Badlands Landfill – Monthly Drainage Inspection Report – September 2025

Enclosed please find the following documents that constitute the Badlands Monthly Drainage Inspection Report for September 2025:

- BMP Storm Preparation, Protective Cover Soil & Site Maintenance List for the period of August 11, 2025, to September 10, 2025. The list contains an associated priority task photo insert with corresponding map.
- Monthly Site Development Photographs with associated map showing photo location and camera lens direction for each photograph. These photographs provide a comprehensive overview of the disturbed portions of the landfill as a monthly snapshot in time for comparing with previous and future Site Development Photograph sets for both project work review and site archival purposes.

Inspection Type: Monthly MDIR ■ Pre-Storm ☐ Post-Storm ☐ Probability of Measurable Precipitation: Total Rain Fall:

Section A: Site Information

Facility: Badlands Sanitary Landfill - 31125 Ironwood Avenue, Moreno Valley CA 92553

Inspection Date and Time 9/9/25 15:11

Inspected By: Michael Ray

Inspector Title: Senior Engineering Technician Inspector Signature:

Reviewed By:

Reviewers Title:

Weather conditions during inspection: Partly Cloudy

Is the site currently wet or dry? Dry

Section B: Site Observations

Site Erosions and Erosion Control	**Photo#**	**YES**	**NO**	**N/A**
Have BMPs been installed at the site?		◉	○	○
Is the landfill generally free from soil erosion?	1	○	◉	○
Are the Geotextiles/temporary liner that are used for erosion control in good condition and functioning?		○	○	◉
Has a BMP been implemented (e.g. berm/sediment barrier) around the stockpile(s) at the site?	2	○	◉	○
Is a water truck currently being used on site?		◉	○	○
Are the roads being properly watered for dust control?		◉	○	○

Comments:

Non-Stormwater Management, Material Management, & Source Control BMPs	**Photo#**	**YES**	**NO**	**N/A**
Does the landfill have adequate cover (interim cover/closure cap)?		◉	○	○
Is the active daily cover being properly maintained?		◉	○	○

Comments:

Roads, Signs, and Traffic control devices	Photo#	YES	NO	N/A
Are the landfill roads being maintained and in good condition?		◉	○	○
Is the entrance road free of sedimentation track-out?		◉	○	○
Is the landfill road stripping in good condition?	3	○	◉	○
Are the traffic control signs and devices in good condition and functioning as intended ?		◉	○	○
Are the "No Trespassing" signs in good condition?		◉	○	○

Comments:

Gates and Fences	Photo#	YES	NO	N/A
Are the landfill gates working and in good condition?		◉	○	○
Are any landfill perimeter fences in need of repair?		○	◉	○

Comments:

Buildings	Photo#	YES	NO	N/A
Are the landfill buildings in good condition and free from any obvious safety issues?		◉	○	○

Comments:

Settlement, Fissuring, Ponding	Photo#	YES	NO	N/A
Is the landfill free of settlement?		◉	○	○
Is the landfill free of ponding?		◉	○	○
Is the landfill free of fissuring?		◉	○	○

Comments:

Drainage Structures	Photo#	YES	NO	N/A
Are landfill drainage structures in good condition and functioning?		◉	○	○
Are berms, swales, down-drains, and velocity dissipaters in good condition and functioning?	4	○	◉	○

Comments: Photo #5 - Dried vegetation in the Bench P shotcrete drainage channel.

Canyon 4 Sedimentation Basin	Photo#	YES	NO	N/A
Is the Canyon 4 sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?	6	○	◉	○
Has sediment been removed from the sedimentation basin?		○	◉	○

Comments:

P2S1 Sedimentation Basin	Photo#	YES	NO	N/A
Is the P2S1 sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		○	◉	○

Comments:

Western Stockpile Sedimentation Basin	Photo#	YES	NO	N/A
Is the Western Stockpile sedimentation basin in good condition (free of erosions/cracks)?		◉	○	○
Is the sedimentation basin inlet & outlet in good condition?		◉	○	○
Has sediment been removed from the sedimentation basin?		○	◉	○

Comments:

Metallic's/Recycling/Trash Disposal Area	Photo#	YES	NO	N/A
Are trash bin lids closed (maintenance & administrative sides)?		◉	○	○
Trash bin area ground free of litter/boxes/etc. (box car/office areas)?		◉	○	○
Is the metallic's/recycling area neat, orderly, and free of leaks?		◉	○	○

Comments:

Household Hazardous Waste Area	Photo#	YES	NO	N/A
Is the household hazardous waste facility neat and orderly?		◉	○	○
Are the containers in the used oil/waste facility labeled clearly as to their contents?		◉	○	○
Are materials (such as fuel, oil, antifreeze, used oil, etc.) properly delivered and stored at the site?		◉	○	○
Are portable toilets located away from drainage courses?		◉	○	○

Comments:

NPDES - Vehicle/Heavy Equipment Maintenance/Storage/Fueling Area	Photo#	YES	NO	N/A
Is the diesel tank's secondary containment structure in good condition?		◉	○	○
Are the fuel hoses contained within the secondary containment structure?		◉	○	○
Is the area surrounding the fueling area free of spills/leaks?		◉	○	○
Are spills cleaned up in a timely manner?		◉	○	○
Appropriate spill containment & cleanup materials kept on-site & in a convenient location?		◉	○	○
Is equipment cleaning occurring on-site?		○	◉	○
If Yes, are BMPs being properly used so as to not create NON-STORMWATER discharges?		○	○	◉
Are drip pans being effectively used in the equipment maintenance/repair area?		◉	○	○
Are the waste fluids/oil filters/used oil stored in closed containers and in secondary containment?		◉	○	○
Is the used oil/waste facility free of accumulated rainwater and spills?		◉	○	○
Is the Vehicle Parking Area free of leaks & drips?		◉	○	○
Appropriate spill containment & cleanup materials kept on-site & in a convenient location for use in the parking lot?		◉	○	○

Comments:

Section C: UNAUTHORIZED NON-STORMWATER DISCHARGES	Photo#	YES	NO	N/A
Is the site free from any unauthorized non-stormwater discharges during this inspection?		◉	○	○
Is the site free from any indications of prior unauthorized non-stormwater discharges during this inspection?		◉	○	○
If yes, please state the source.		○	○	◉

Comments:

At this time there are NO authorized non-storm discharges at the site.		◉	○	○

Comments:

Any Additional Comments:



Photo #1— Erosion along west edge of Bench P- Bench 216.



Photo #2— No BMP's surrounding the RCPS-2 three inch minus stockpile.



Photo #3— Faded road stripping on the AC customer access road.



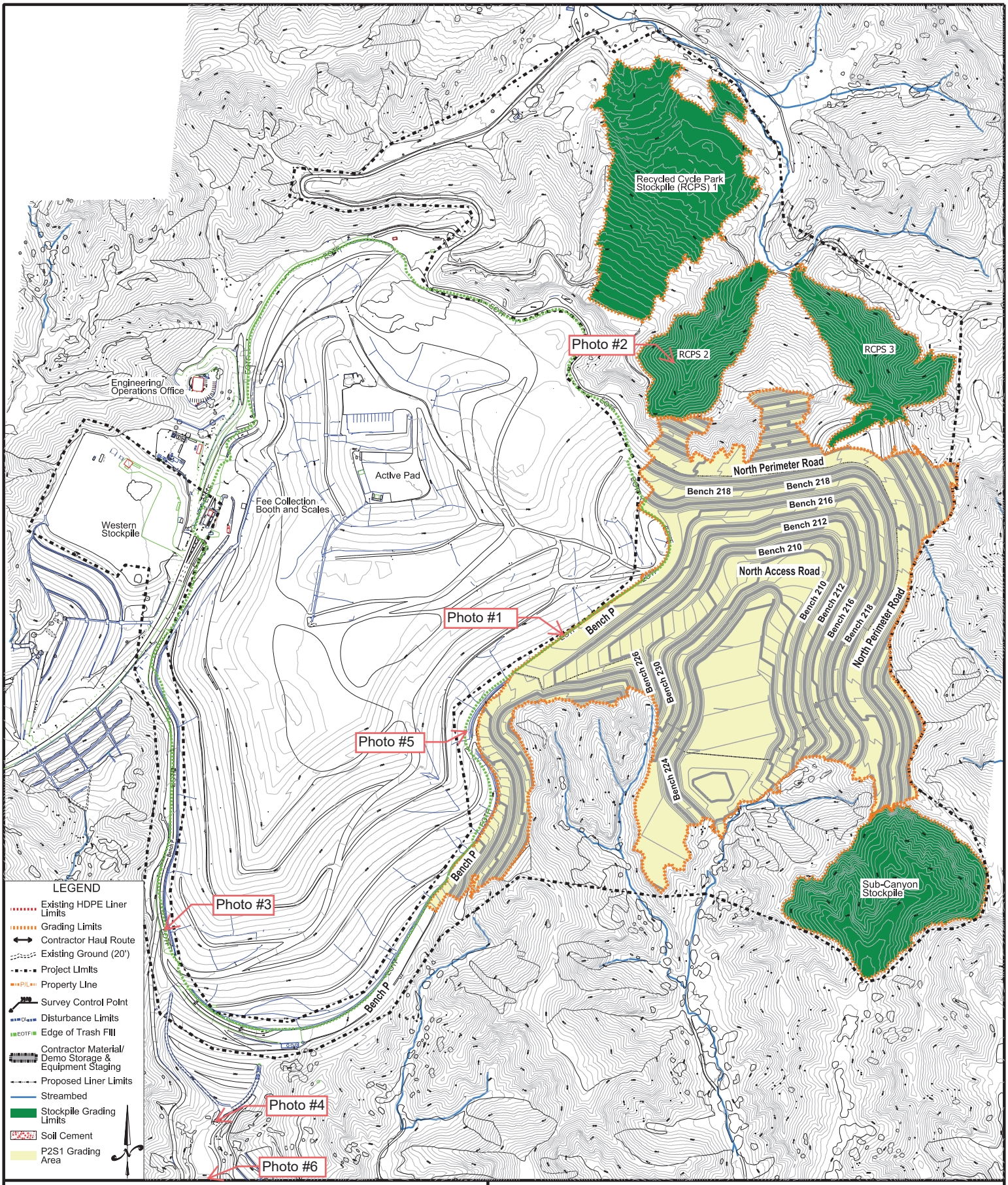
Photo #4— Canyon 4 sediment basin velocity dissipater is full of sediment.



Photo #5— Dried vegetation in the Bench P shotcrete drainage channel.



Photo #6— Dried vegetation covering Canyon 4 spillway RIP RAP pad.



RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

Andy Cortez — General Manager-Chief Engineer

Badlands Sanitary Landfill
Liner System Construction - Phase 2, Stage 1

Overall Construction Site Daily

FILE: K:\Sites\Badlands\Expansions\Phase 2 Stage 1-\Construction\Daily Inspection Templates		
Overall Site Map Revised.dgn	TOPO DATE: March 2024	SCALE: 1"=600'

Appendix C – Volume of Wastewater Runoff Collected in Temporary Detention Basins

Badlands C4P3 Percolation Basin (Metals Area) - Built 2024
April 1, 2025 - September 30, 2025

Watershed Area of the Basin, A = 570,636 sf
Curve Number, CN = 93 (Open Space, Poor Conditions, Soil Group D)
Storage Capcity of Soil, S = 0.75 in
S = (1,000/CN)-10
Intial Abstraction, I = 0.15 in
I = 0.2S

Date Range of Rain Event	Rainfall Amount P (in.)	Cumulative Rainfall Amount P_c (in.)	[2]Total Runoff $Q_{inches}=(P-I)^2 / (P-I+S)$ (in.)	Total Rainfall Runoff Volume per Storm $Vol=A/(Q_{inches}/12)$ (CF)	Total Rainfall Runoff Volume per storm event Vol=A/(Qinches/12) *7.4805 (gallons)	Potential Cumulative Rainfall Volume that Infiltrates thru Wastewater Basin (gallons)	Estimated Total Amount of Wastewater to increase MSW underneath basin to a Moisture Content of 50% Total: 20,661,292 gallons
4/4/2025	0.18	0.18	0.00	53	395	395	20,660,897
4/5/2025	0.01	0.19	-	-	-	395	20,660,897
4/17/2025	0.02	0.21	-	-	-	395	20,660,897
4/18/2025	0.02	0.23	-	-	-	395	20,660,897
4/20/2025	0.01	0.24	-	-		395	20,660,897
4/27/2025	0.25	0.49	0.01	552	4,130	4,524	20,656,768
5/4/2025	0.13	0.62	-	-	-	4,524	20,656,768
5/5/2025	0.47	1.09	0.10	4,526		4,524	20,656,768
5/6/2025	0.13	1.22	-	-	-	4,524	20,656,768
5/17/2025	0.02	1.24	-	-	-	4,524	20,656,768

Note: Basin was completely filled in and no longer existed after June 1, 2025

Badlands Wet Weather Percolation Basin - Built 2024
April 1, 2025 - September 30, 2025

Watershed Area of the Basin, A = 522,720 sf
Curve Number, CN = 93 (Open Space, Poor Conditions, Soil Group D)
Storage Capcity of Soil, S = 0.75 in
S = (1,000/CN)-10
Intial Abstraction, I = 0.15 in
I = 0.2S

Date Range of Rain Event	Rainfall Amount P (in.)	Cumulative Rainfall Amount P_c (in.)	[2] Total Runoff $Q_{inches}=(P-I)^2 / (P-I+S)$ (in.)	Total Rainfall Runoff Volume per Storm $Vol=A/(Q_{inches}/12)$ (CF)	Total Rainfall Runoff Volume per storm event Vol=A/(Qinches/12) *7.4805 (gallons)	Potential Cumulative Rainfall Volume that Infiltrates thru Wastewater Basin (gallons)	Estimated Total Amount of Wastewater to increase MSW underneath basin to a Moisture Content of 50% Total: 35,759,340 gallons
4/4/2025	0.18	0.18	0.00	48	362	362	35,758,978
4/5/2025	0.01	0.19	-	-	-	362	35,758,978
4/17/2025	0.02	0.21	-	-	-	362	35,758,978
4/18/2025	0.02	0.23	-	-	-	362	35,758,978
4/20/2025	0.01	0.24	-	-		362	35,758,978
4/27/2025	0.25	0.49	0.01	506	3,783	4,144	35,755,196
5/4/2025	0.13	0.62	-	-	-	4,144	35,755,196
5/5/2025	0.47	1.09	0.10	4,146		4,144	35,755,196
5/6/2025	0.13	1.22	-	-	-	4,144	35,755,196
5/17/2025	0.02	1.24	-	-	-	4,144	35,755,196
6/4/2025	0.06	1.30	-	-	-	4,144	35,755,196
6/18/2025	0.02	1.32	-	-	-	4,144	35,755,196
9/2/2025	0.03	1.35	-	-	-	4,144	35,755,196
9/18/2025	0.22	1.57	0.01	256	1,912	6,057	35,753,283
9/28/2025	0.02	1.59	-	-	-	6,057	35,753,283

Appendix D – Landfill Logs

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

GENERATOR WASTE PROFILE SHEET

Waste Profile # (Office Use Only)
20250529EC1

Date: 05.28.2025

Requested Disposal Facility:

- ☒ Badlands Landfill, Moreno Valley, CA
- ☐ Lamb Canyon Landfill, Beaumont, CA
- ☐ Blythe Landfill, Blythe, CA
- ☐ Oasis Landfill, Oasis, CA

Please ensure to complete all applicable fields and include supporting and/or signed analytical documents when submitting the form to Waste-Approval@rivco.org. The completion of this form does not guarantee disposal at a Riverside County Landfills listed above. Disposal of any solid waste shall be at the sole discretion of Riverside County Landfills. For any questions regarding this form or how to fill it out, please contact the RCDWR Waste Approval Staff at Waste-Approval@rivco.org or (951) 486-3200. ***Depending on the complexity of the request, the review of the waste approval request may take up to 5 business days.***

I. WASTE GENERATOR INFORMATION

Generator Name: Naval Sea Systems Command			
Generator Site Address: 1999 Fourth St, Norco, CA 92860			
City: Norco	County: Riverside	State: CA	Zip: 92860
Generator Mailing Address (if different):			
City:	County:	State:	Zip:
Address Where Waste Was Generated: Same as above			
City:	County:	State:	Zip:
Generator Contact Name: Frank Aguirre			
Phone Number: 951-454-8685		Fax Number:	

II. TRANSPORTER INFORMATION

Transporter Name: J.I. Garcia Construction, Inc.		Contact Name: Steven Garcia	
Transporter Address: 4717 E. Hedges			
City: Fresno	County: Fresno	State: CA	Zip: 93703
Phone Number: 559-276-7726		Fax Number: 559-276-0326	

III. PAYMENT INFORMATION

Method of Payment (please ensure the driver have the payment upon arrival at the landfill Fee Booth):

☐ Cash ☐ ATM/Debit ☒ Visa/MasterCard ☒ Payment Account (If payment account is desired, please call (951) 486-3200)

IV. WASTE STREAM INFORMATION

Name of Waste:
Dirt Spoils From Excavation

Process Generating Waste (for contaminated soil, describe the site history including all business types once located on the property, attach additional pages if necessary, applicable environmental assessment reports shall also be attached).
Excavation *see attached testing report*

Physical State: ☐ SOLID ☐ SEMI-SOLID ☐ POWDER ☐ LIQUID ■ OTHER: Loose Dirt

Method of Shipment: ☐ BULK ☐ DRUM ☐ BAGGED ■ OTHER: End-dump

Estimated Annual Volume:	☐ CUBIC YARD	☐ TONS 120	☐ GALLONS	☐ OTHER
Estimated Quantity for each Shipment:	☐ CUBIC YARD	■ TONS 9.5	☐ GALLONS	☐ OTHER

Shipping Frequency: ☐ ONE TIME ■ DAILY ☐ WEEKLY ☐ MONTHLY ☐ OTHER:

Vehicle Type used to Transport Waste: ☐ PICK-UP ■ END DUMP ☐ OTHER:

V. REPRESENTATIVE SAMPLE CERTIFICATION

By signing below I certify that the sampling plan used and samples submitted for analysis are sufficient in number and quantity to provide a representative profile of the subject waste stream and that all samples collected were analyzed for all suspect hazardous parameters and that the testing was done in in accordance to Article 3 of Chapter 11 hazardous waste (sections 66261.21 to 66261.24). *If analytical testing for the waste is attached to the Waste Approval Request, you can write "See attached" in this section. If no analytical testing for the waste stream, you can write "N/A" throughout this section.*

Sample Date: See attached Report	Type of Sample: ☐ GRAB SAMPLE ☐ COMPOSITE SAMPLE
Laboratory: See attached Report	Sample ID Numbers: See attached Report
Sampler's Employer: See attached Report	
Sampler's Name (printed): See attached Report	Signature:

VI. PHYSICAL CHARACTERISTICS OF WASTE

Characteristic Components	**% by Weight (range)**
1. See attached Report	See attached Report
2.	
3.	
4.	

Color:	Odor (describe)	% Moisture	% Solid	Flash Point	pH
See attached Report	See attached Report	See attached Report	See attached Report	See attached Report	See attached Report

Attach Laboratory Analytical Report (and/or Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste exhibit any characteristic of ignitability as defined in Article 3 of Chapter 11 hazardous waste, section 66261.21?	☐ Yes or ■ No
Does this waste exhibit any characteristic of corrosivity as defined in Article 3 of Chapter 11 hazardous waste, section 66261.22?	☐ Yes or ■ No
Does this waste exhibit any characteristic of reactivity as defined in Article 3 of Chapter 11 hazardous waste, section 66261.23?	☐ Yes or ■ No
Does this waste exhibit any characteristic of toxicity as defined in Article 3 of Chapter 11 hazardous waste, section 66261.24?	☐ Yes or ■ No
Is there asbestos-containing material (ACM) in the waste as defined by 40 CFR 61.141? If Yes, ☐ Friable or ☐ Non-Friable	☐ Yes or ■ No
Is this waste a RCRA hazardous waste as defined in Title 22 CCR, Chapter 11, Article 4?	☐ Yes or ■ No
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐ Yes or ■ No
Is this a regulated Radioactive Waste as defined by Federal and/or State regulations?	☐ Yes or ■ No
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐ Yes or ■ No
Is this waste generated at a Federal Superfund Clean Up Site?	☐ Yes or ■ No

VII. GENERATOR CERTIFICATION

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and an accurate description of the waste material being offered for disposal and that all known or suspected hazards have been disclosed. All Analytical Results/Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by the Riverside County Department of Waste Resources (RCDWR). The undersigned individual warrants that he/she is authorized to sign this document on behalf of the Generator.

Steven Garcia Superintendent	J.I. Garcia Construction, Inc.
Authorized Representative Name and Title (Printed or Typed)	Company Name
Steven Garcia Digitally signed by Steven Garcia Date: 2025.05.28 13:10:56 -07'00'	05.28.2025
Authorized Representative Signature	Date

VIII. RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES APPROVAL

Approved ■	Rejected ☐	Approval Date: 05/29/2025	Approval Expired Date: 07/07/2025

Conditions:

• Driver shall carry a copy of the signed Generator Waste Profile Sheets and present to the landfill's Fee Booth staff for every shipment when arriving at the landfill.

• Approve for disposal at Badlands landfill.

Emily Chau, Program Coordinator	05/29/2025
Approving Representative Name and Title (Printed or Typed)	Date
Emily Chau Digitally signed by Emily Chau Date: 2025.06.02 14:32:51 -07'00'	
Approving Representative Signature	

Universal Engineering Sciences (UES)
14538 Meridian Parkway, Suite A
Riverside, CA 92026
P. 951.214.6200 | TeamUES.com

SOIL SAMPLING SURVEY REPORT
BUILDING 515 RENOVATION
1999 FOURTH STREET, NORCO, CA

UES PROJECT NO.: 4910.2300060.0000
INSPECTION DATE: April 23,2025

Prepared for:

J.I. Garcia Construction, Inc.

Prepared by:

UNIVERSAL ENGINEERING SCIENCES
1538 Meridian Pkwy Suite# A
Phone: (951) 214-6200

Universal Engineering Sciences (UES)
14538 Meridian Parkway, Suite A
Riverside, CA 92026
P. 951.214.6200 | TeamUES.com

May 21, 2025

RE: Summary of Analytical Results for Building 515 Renovation

Presented herein are results of tests performed on soil samples obtained at the Building 515 renovation at 1999 Fourth Street in Norco, CA on April 23, 2025, four (4) samples were collected at stockpile located on site.

The samples collected are listed below:

- S-1 North of Stockpile
- S-2 South of Stockpile
- S-3 East of Stockpile
- S-4 West of Stockpile

Samples were obtained by pushing the 16-oz sampling container into the deepest point of the test area without exposing the contents to additional contaminants using latex gloves. Samples were placed in a chilled ice chest and transported under STRICT chain of custody to a state certified analytical laboratory.

The samples were analyzed for the following constituents,

- **TPH-Extractables by GC (EPA 8015M)**
- **Volatile Organics by GC/MS (EPA 8260B)**
- **Semivolatile Organics by GC/MS (EPA 8270C)**
- **Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM)**
- **Pesticides (EPA 8081A)**
- **PCBs (EPA 8082)**
- **Metals (EPA 6010B and EPA 7471A)**
- **Conductivity (SM2510B)**
- **pH of Solid Samples (EPA 9045C)**
- **8151A Chlorinated Herbicides (EPA 8151A)**

The results of the analysis are presented on the attached laboratory reports.

Respectfully submitted,

UES

Universal Engineering Sciences (UES)
14538 Meridian Parkway, Suite A
Riverside, CA 92026
P. 951.214.6200 | TeamUES.com

EXECUTIVE SUMMARY

Universal Engineering Sciences (UES) has performed a soil sampling survey of the above referenced property. Methodology, observations, and conclusions specific to the property are detailed in the Appendix of this report.

APPENDIX

A. Field Report
B. Laboratory Analysis Report

1.0 INTRODUCTION

As requested by **J.I. Garcia Construction, Inc.**, (UES) conducted soil sampling at the Building 515 Renovation in Norco, California.

2.0 BACKGROUND

UES was retained to collect four (4) soil samples to identify potential contaminants of concern (COCs) on the property. It is UES's understanding that the purpose of our work is to evaluate the soil for COCs in association with construction of the Simulation Center.

3.0 SURVEY PROCEDURES

An Environmental Scientist with UES, conducted the soil sampling at the referenced site on April 23, 2025. Four (4) soil samples were obtained from stockpiles associated with construction of the proposed development.

The soil samples were submitted to Enthalpy Analytical under standard chain-of-custody procedures for analysis.

Enthalpy Analytical is accredited by the National Environmental Laboratory Accreditation Program (NELAP) in conjunction with assorted local, state, and government certifications (See Appendix C – Laboratory Certification).

4.0 FINDINGS

Please see Appendix B - Laboratory Analysis Report for a summary of the laboratory results.

Universal Engineering Sciences (UES)
14538 Meridian Parkway, Suite A
Riverside, CA 92026
P. 951.214.6200 | TeamUES.com

5.0 PROJECT LIMITATIONS

This project was performed using practices consistent with standards acceptable within the industry at this time, and a level of diligence typically exercised by industrial hygiene and environmental consultants performing similar services. No other warranty is either expressed or implied. The results, findings expressed in the report are based only on conditions in the specified times and locations.

UES assumes no responsibility for conditions or consequences arising from relevant facts that were withheld, concealed, undiscovered, or not fully disclosed, for omissions or errors resulting from inaccurate information, and/or data, provided by sources outside of UES, or from omissions or errors in public records. UES is not a law firm and does not provide legal representation or advice regarding any potential liability of any person or entity for site conditions. UES is not qualified to present medical advice and it is recommended that the findings contained in this report should be presented to a qualified medical professional (e.g. a qualified doctor/physician, nurse).

The scope of services for this report did not include the inspection for, or identification of fungi, lead paint, or any other hazardous or controlled substances not specifically identified herein.

Furthermore, it is emphasized that the final decision on how much risk to accept always remains with the Client since UES is not in a position to fully understand all of the Client's needs. Clients with a greater aversion to risk may want to take additional actions while others, with less aversion to risk, may want to take no further action.

All documentation is provided and should be retained as a permanent record. Should you have any questions regarding the procedures that were followed on this project, please contact me at any time.

Thank you for the opportunity to provide these environmental testing services.

Respectfully,
Universal Engineering Sciences

Jorge Nieto
Project Manager

Universal Engineering Sciences (UES)
14538 Meridian Parkway, Suite A
Riverside, CA 92026
P. 951.214.6200 | TeamUES.com

APPENDIX A
Field Report

14538 Meridian Pkwy Ste A
Riverside, CA, 92518
951-571-4081 | teamues.com

PROJECT	Building 515 Renovation - 4910.2300060.0000	**REPORT #**	000019-000010	**DATE**	04/23/2025
PROJECT #	A23167.00030.000	**ISSUE #**	10	**PERMIT #**	N/A
ADDRESS	1999 Fourth Street	**GEN CONTRACTOR**	N/A	**LAB ACCREDITATION #**	202
		OWNER	Anthony Talamantez		
		PI/IOR/SUPER			

GRADING OBSERVATION

UES REP	HERRERA, Robert	**WEATHER**	Clear
		CERTIFICATION #	-
		GENERAL LOCATION	Other - Stockpile NE from building 515

SUMMARY OF WORK:

Arrived on site and was escorted to site spoke to Anthony to discuss the scope of work which included taking samples from multiple random locations of stockpile located northeast from building 515 to perform several test. Stockpile was about 75 yards. Please refer to picture attached for all tests requests. One sample was collected. I took it back to lab to be tested.

This Work: WAS tested in accordance with the requirements of the approved documents

This Work Tested: MET the requirements of the approved documents

Material Sampling: WAS performed in accordance with the approved documents

14538 Meridian Pkwy Ste A
Riverside, CA, 92518
951-571-4081 | teamues.com

PROJECT	Building 515 Renovation - 4910.2300060.0000	**REPORT #**	000019-000010	**DATE**	04/23/2025
PROJECT #	A23167.00030.000	**ISSUE #**	10	**PERMIT #**	N/A
ADDRESS	1999 Fourth Street	**GEN CONTRACTOR**	N/A	**LAB ACCREDITATION #**	202
		OWNER	Anthony Talamantez		
		PI/IOR/SUPER			

ATTACHMENT:



14538 Meridian Pkwy Ste A
Riverside, CA, 92518
951-571-4081 | teamues.com

PROJECT	Building 515 Renovation - 4910.2300060.0000	**REPORT #**	000019-000010	**DATE**	04/23/2025
PROJECT #	A23167.00030.000	**ISSUE #**	10	**PERMIT #**	N/A
ADDRESS	1999 Fourth Street	**GEN CONTRACTOR**	N/A	**LAB ACCREDITATION #**	202
		OWNER	Anthony Talamantez		
		PI/IOR/SUPER			

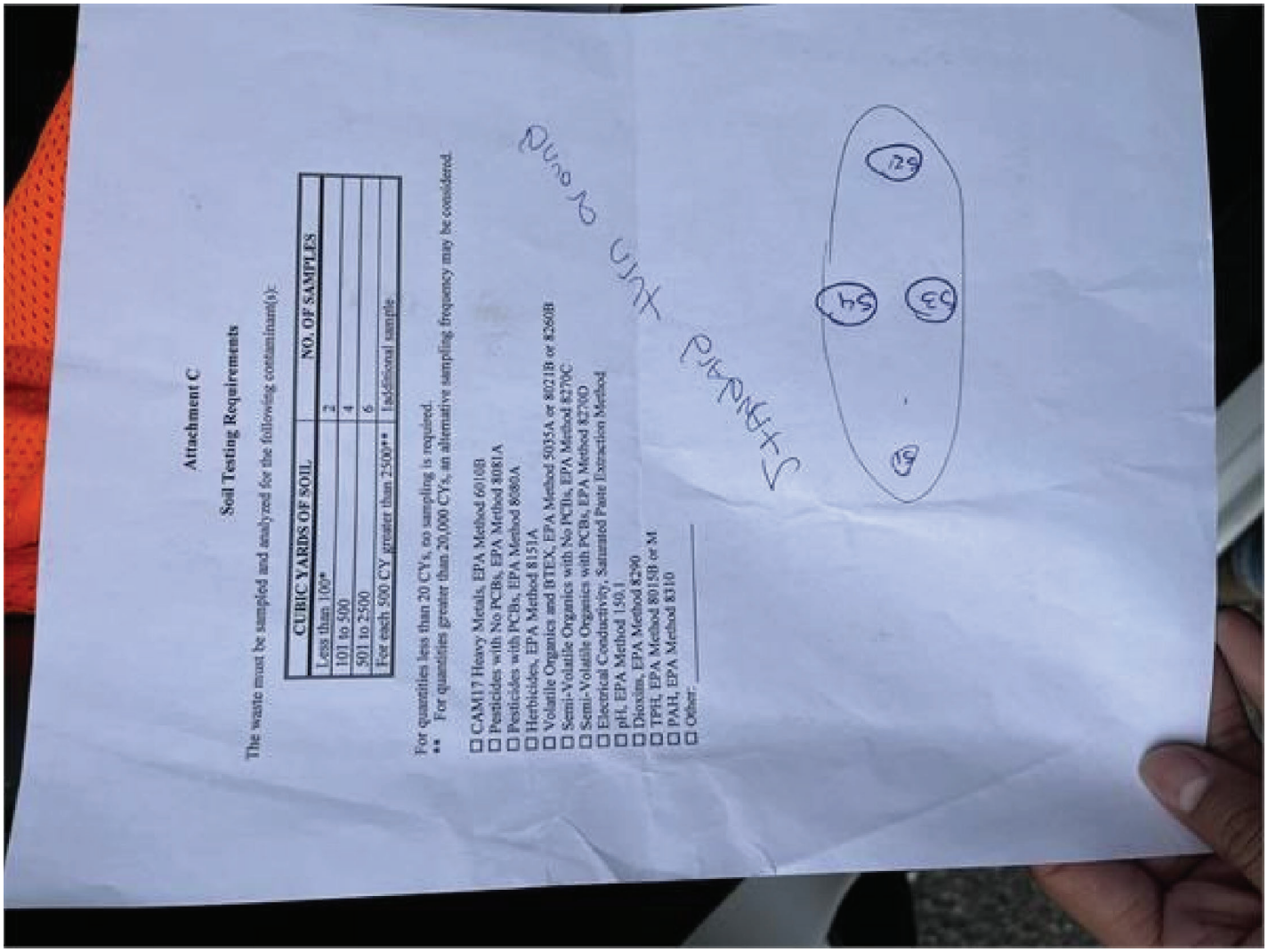
ATTACHMENT:



14538 Meridian Pkwy Ste A
Riverside, CA, 92518
951-571-4081 | teamues.com

PROJECT	Building 515 Renovation - 4910.2300060.0000	**REPORT #**	000019-000010	**DATE**	04/23/2025
PROJECT #	A23167.00030.000	**ISSUE #**	10	**PERMIT #**	N/A
ADDRESS	1999 Fourth Street	**GEN CONTRACTOR**	N/A	**LAB ACCREDITATION #**	202
		OWNER	Anthony Talamantez		
		PI/IOR/SUPER			

ATTACHMENT:



Attachment C

Soil Testing Requirements

The waste must be sampled and analyzed for the following contaminant(s):

CUBIC YARDS OF SOIL	NO. OF SAMPLES
Less than 100*	2
101 to 500	4
501 to 2500	6
For each 500 CY greater than 2500**	1additional sample

For quantities less than 20 CYs, no sampling is required.
** For quantities greater than 20,000 CYs, an alternative sampling frequency may be considered.

- ☐ CAM17 Heavy Metals, EPA Method 6010B
- ☐ Pesticides with No PCBs, EPA Method 8081A
- ☐ Pesticides with PCBs, EPA Method 8080A
- ☐ Herbicides, EPA Method 8151A
- ☐ Volatile Organics and BTEX, EPA Method 5035A or 8021B or 8260B
- ☐ Semi-Volatile Organics with No PCBs, EPA Method 8270C
- ☐ Semi-Volatile Organics with PCBs, EPA Method 8270D
- ☐ Electrical Conductivity, Saturated Paste Extraction Method
- ☐ pH, EPA Method 150.1
- ☐ Dioxins, EPA Method 8290
- ☐ TPH, EPA Method 8015B or M
- ☐ PAH, EPA Method 8310
- ☐ Other: _____

DUPLICATE UNIT PAIRINGS

29
54
53
19

Universal Engineering Sciences (UES)
14538 Meridian Parkway, Suite A
Riverside, CA 92026
P. 951.214.6200 | TeamUES.com

APPENDIX B
Laboratory Analysis Report

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 531606
Report Level : II
Report Date : 05/02/2025

Analytical Report *prepared for:*

Vincent Patula
Universal Engineering Sciences
14538 Meridian Pkwy
Riverside, CA 92518

Location: Building 515 Renovation / 4910-2300060.0000

Authorized for release by:

Richard Villafania, Project Manager
richard.villafania@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

ENTHALPY ANALYTICAL

Sample Summary

Vincent Patula Universal Engineering Sciences 14538 Meridian Pkwy Riverside, CA 92518	Lab Job #: Location: Date Received:	531606 Building 515 Renovation / 4910-2300060.0000 04/23/25

Sample ID	Lab ID	Collected	Matrix
S-1 - NORTH OF STOCKPILE	531606-001	04/23/25 08:45	Soil
S-2 - SOUTH OF STOCKPILE	531606-002	04/23/25 08:46	Soil
S-3 - EAST OF STOCKPILE	531606-003	04/23/25 08:47	Soil
S-4 - WEST OF STOCKPILE	531606-004	04/23/25 08:48	Soil

ENTHALPY ANALYTICAL

Case Narrative

Universal Engineering Sciences 14538 Meridian Pkwy Riverside, CA 92518 Vincent Patula	Lab Job Number: Location: Date Received:	531606 Building 515 Renovation / 4910-2300060.0000 04/23/25

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 04/23/25. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015M):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

- Low recoveries were observed for a number of analytes in the MS of S-1 - NORTH OF STOCKPILE (lab # 531606-001); the BS/BSD were within limits. High RPD was also observed for a number of analytes in the MS/MSD of S-1 - NORTH OF STOCKPILE (lab # 531606-001); the RPD was acceptable in the BS/BSD, and these analytes were not detected at or above the RL in the associated samples.
- No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

- Responses exceeding the instrument's linear range were observed for nitrobenzene-d5, 2-fluorobiphenyl, and terphenyl-d14 in S-1 - NORTH OF STOCKPILE (lab # 531606-001) and S-2 - SOUTH OF STOCKPILE (lab # 531606-002); affected data was qualified with "E".
- No other analytical problems were encountered.

Pesticides (EPA 8081A):

- Low recoveries were observed for a number of analytes in the MS/MSD for batch 369559; the parent sample was not a project sample, and the LCS was within limits. High recoveries were observed for many analytes; the LCS was within limits, and these analytes were not detected at or above the RL in the associated samples. High RPD was observed for endosulfan II, endrin aldehyde, and methoxychlor; these analytes were not detected at or above the RL in the associated samples.
- Responses exceeding the instrument's linear range were observed for 4,4'-DDE, endrin, and heptachlor epoxide in the MS/MSD for batch 369559; affected data was qualified with "E".
- S-1 - NORTH OF STOCKPILE (lab # 531606-001) was diluted due to the viscous nature and dark color of the sample extract.
- No other analytical problems were encountered.

PCBs (EPA 8082):

- High surrogate recoveries were observed for decachlorobiphenyl (PCB) in S-1 - NORTH OF STOCKPILE (lab # 531606-001) and the method blank/LCS for batch 369559.
- S-1 - NORTH OF STOCKPILE (lab # 531606-001) was treated with sulfuric acid to reduce analytical interferences or due to the presence of color.
- S-1 - NORTH OF STOCKPILE (lab # 531606-001) was diluted due to the viscous nature and dark color of the sample extract.
- No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

- Low recoveries were observed for antimony in the MS/MSD for batch 369600; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. High recovery was observed for barium in the MS for batch 369600; the LCS was within limits, and the associated RPD was within limits.
- No other analytical problems were encountered.

Conductivity (SM2510B):
No analytical problems were encountered.

pH of Solid Samples (EPA 9045C):
No analytical problems were encountered.

8151A Chlorinated Herbicides (EPA 8151A):
McCampbell Analytical, Inc. in Pittsburg, CA performed the analysis (NELAP certified). Please see the McCampbell Analytical, Inc. case narrative.

Dioxins & Furans (EPA 8290):
Enthalpy - El Dorado Hills in El Dorado Hills, CA performed the analysis (see sublab report section for certifications). Please see the Enthalpy - El Dorado Hills case narrative.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 531606

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air, S = Soil/Solid, W = Water, DW = Drinking Water, P = Product, O = Oil, SD = Sediment, T = Tissue, WP = Wipe, WW = Wastewater, X = Other

Sample Type: C = Composite, G = Grab or Discrete, B = Blank, O = Other

Preservatives: 0 = none, 1 = $Na_2S_2O_3$, 2 = HCl, 3 = HNO_3, 4 = H_2SO_4, 5 = NaOH, 6 = Other

Sample Receipt Temp and Notes: IR 11 6.9/7.0 (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Universal Engineering	Name:	Building 515 Renovation
Report To:	Vincent Patula	Number:	4910-230060-0000
Email:	vpatula@teamues.com	P.O. #:	
Address:	14538 Meridian Parkway Unit A.	Address:	1999 Fourth Street, Norco, CA, 92860
Phone:	(951) 214-6200	Global ID:	
Fax:		Sampled By:	Robert Herrera

	Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Sample Type	Pres.	Cont. No.	Cont. Size	Initials	Cam17 Heavy Metals, Method 6020B	Pest. w no PCB	Pest w PCB	Herbicides	Volatile Organics & BTEX	SVO w NO PCB, EPA	SVO w PCB, EPA	Electrical Conductivity	Test Instructions / Comments
1	S-1	4-23-25	8:45		soil			8oz	RH	X	X	X	X	X	X	X	X	
2	S-2	4-23-25	8:46		soil			8oz	RH	X	X	X	X	X	X	X	X	
3	S-3	4-23-25	8:47		soil			8oz	RH									Hold
4	S-4	4-23-25	8:48		soil			8oz	RH									Hold
5																		
6																		
7																		
8																		
9																		
10																		

Login 531606

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Robert Herrera	Robert Herrera	UES / Inspector	4-23-25 10:00 am
[1] Received By:	Anna Roberts	Anna Roberts	EA	4-23-25 10:00
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 531606

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: **A** = Air **S** = Soil/Solid **W** = Water **DW** = Drinking Water **P** = Product **O** = Oil **SD** = Sediment **T** = Tissue **WP** = Wipe **WW** = Wastewater **X** = Other

Sample Type: **C** = Composite **G** = Grab or Discrete **B** = Blank **O** = Other

Preservatives: **0** = none **1** = $Na_2S_2O_3$ **2** = HCl **3** = HNO_3 **4** = H_2SO_4 **5** = NaOH **6** = Other

Sample Receipt Temp and Notes: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	UES	Name:	Building 515 Renovation
Report To:	Vincent Patula	Number:	4910.230060.0000
Email:	vpatula@teamues.com	P.O. #:	
Address:	14538 Meridian Parkway	Address:	
	Unit A		
Phone:	(951) 214-6200	Global ID:	
Fax:		Sampled By:	Robert Herrera

	Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Sample Type	Pres.	Cont. No.	Cont. Size	Initials	Analysis Request: PH, EPA	Dioxins, EPA	TPH, EPA	PAH, EPA					Test Instructions / Comments
1	S-1	4.23.25	8:45		soil			8oz	RH	X	X	X	X					
2	S-2	4.23.25	8:46		soil			8oz	RH	X	X	X	X					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Robert Herrera	Robert Herrera	UES / Inspector	4.23.25 1000 am
[1] Received By:	Anna Roberts	Anna Roberts	EA	4-23-25 10:00
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

6.01/1

Attachment C

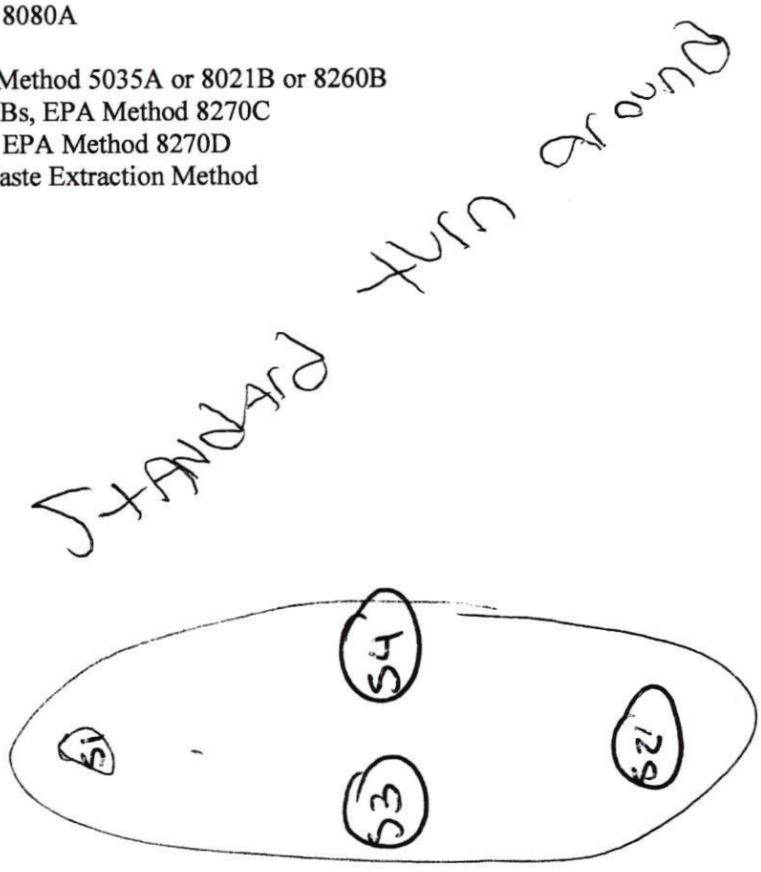
Soil Testing Requirements

The waste must be sampled and analyzed for the following contaminant(s):

CUBIC YARDS OF SOIL	NO. OF SAMPLES
Less than 100*	2
101 to 500	4
501 to 2500	6
For each 500 CY greater than 2500**	1additional sample

For quantities less than 20 CYs, no sampling is required.
** For quantities greater than 20,000 CYs, an alternative sampling frequency may be considered.

- ☐ CAM17 Heavy Metals, EPA Method 6010B
- ☐ Pesticides with No PCBs, EPA Method 8081A
- ☐ Pesticides with PCBs, EPA Method 8080A
- ☐ Herbicides, EPA Method 8151A
- ☐ Volatile Organics and BTEX, EPA Method 5035A or 8021B or 8260B
- ☐ Semi-Volatile Organics with No PCBs, EPA Method 8270C
- ☐ Semi-Volatile Organics with PCBs, EPA Method 8270D
- ☐ Electrical Conductivity, Saturated Paste Extraction Method
- ☐ pH, EPA Method 150.1
- ☐ Dioxins, EPA Method 8290
- ☐ TPH, EPA Method 8015B or M
- ☐ PAH, EPA Method 8310
- ☐ Other: _____



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Chain of Custody Record

Lab No: 531606

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air, S = Soil/Solid, W = Water, DW = Drinking Water, P = Product, O = Oil, SD = Sediment, T = Tissue, WP = Wipe, WW = Wastewater, X = Other

Sample Type: C = Composite, G = Grab or Discrete, B = Blank, O = Other

Preservatives: 0 = none, 1 = $Na_2S_2O_3$, 2 = HCl, 3 = HNO_3, 4 = H_2SO_4, 5 = NaOH, 6 = Other

Sample Receipt Temp and Notes: I 12 11 6 9 7 C (lab use only)

CUSTOMER INFORMATION

Company:	Universal Engineering
Report To:	Vincent Patvia
Email:	vpatvia@teamues.com
Address:	14538 Meridian Parkway Unit A.
Phone:	(951) 214-6200
Fax:	

PROJECT INFORMATION

Name:	Building 515 Renovation
Number:	4910-23000.0.0000
P.O. #:	
Address:	1949 Fourth Street, Norco, CA, 92860
Global ID:	
Sampled By:	Robert Herrera

	Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Sample Type	Pres.	Cont. No.	Cont. Size	Initials	Analysis Request: (Cam17 Heavy Metals, Methods)	Pest w PCB	Pest w PCB	Herbicides	Volatile Organics & BTEX	SVO w NO PCB, EPA	SVO w PCB, EPA	Electrical Conductivity	Test Instructions / Comments
1	S-1 - North of Stockpile	4 23 25	8:45		Soil			8oz	RH	X	X	X	X	X	X	X	X	
2	S-2 - South of Stockpile	4 23 25	8:46		Soil			8oz	RH	X	X	X	X	X	X	X	X	
3	S-3 - East of Stockpile	4 23 25	8:47		Soil			8oz	RH									Hold
4	S-4 - West of Stockpile	4 23 25	8:48		Soil			8oz	RH									Hold
5	VIP.																	
6																		
7																		
8																		
9																		
10																		

- See Added Sample ID notes
- Can you give me a quote for this testing.

Login 531606

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Robert Herrera	Robert Herrera	UES / Inspector	4 23 25 10:00 am
[1] Received By:	Anna Roberts	Anna Roberts	EA	4-23 25 10 PC
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

COPY

ENTHALPY

Chain of Custody Record

Lab No: 531606

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air, S = Soil/Solid, W = Water, DW = Drinking Water, P = Product, O = Oil, SD = Sediment, T = Tissue, WP = Wipe, WW = Wastewater, X = Other

Sample Type: C = Composite, G = Grab or Discrete, B = Blank, O = Other

Preservatives: 0 = none, 1 = $Na_2S_2O_3$, 2 = HCl, 3 = HNO_3, 4 = H_2SO_4, 5 = NaOH, 6 = Other

Sample Receipt Temp and Notes: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	UES	Name:	Building 515 Renovation
Report To:	Vincent Patula	Number:	4910 23000 00 0000
Email:	vpatula@teamues.com	P.O. #:	
Address:	14535 Meridian Parkway	Address:	
	Unit A		
Phone:	(951) 214-6200	Global ID:	
Fax:		Sampled By:	Robert Herrera

	Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Sample Type	Pres.	Cont. No.	Cont. Size	Initials	PH, EPA	Diesel, EPA	TPH, EPA	DAH, EPA					Test Instructions / Comments
1	S-1 - North of Stockpile	4.23.25	8:45		Soil			8oz	RH	X	X	X	X					
2	S-2 - South of Stockpile USP.	4.23.25	8:46		Soil			8oz	RH	X	X	X	X					
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	Robert Herrera	Robert Herrera	UES / Inspector	4.23.25 8:00 am
[1] Received By:	Alina Rebolledo	Alina Rebolledo	CT4	4.23.25 10:00
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: General Info
Date Received: 4/23/25 WO# 531606 Client: Universal Engineering

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☒ No
Custody seals intact on arrival? ☒ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples
☐ Courier ☒ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**
Date Opened 4/23/25 By (initials) AGR Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None
☒ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)
☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)
If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR11 CF: +0.1
Cooler Temp (°C) #1: 6.9 / 7.0 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ☒ **No microbiology samples submitted (skip 3b)**
☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.
☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ☒ **No air samples submitted (skip 3c)**
☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other_____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	✓		
2) Is the sampler's name present on the CoC?	✓		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	✓		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			✓
5) Were all of, and only, the correct samples received?	✓		
6) Are sample labels present, legible, and in agreement with the CoC? ABD 4/23/25	✓	X	
7) Does the container count match the CoC?	✓		
8) Was sufficient sample volume / mass received for the analyses requested?	✓		
9) Were samples received in proper containers for the analyses requested?	✓		
10) Were samples received with > 1/2 holding time remaining?	✓		
11) Are samples properly preserved as indicated by CoC / labels?	✓		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			✓
13) Are VOA vials free from headspace/bubbles > 6mm?			✓

Section 5: Explanations / Comments
(If no comments are made, then no discrepancies noted.)
4, 6: Sample containers labeled 'N of stockpile' with no times, date only.
'E of stockpile'
'S of stockpile'
'W of stockpile'
Containers cannot be labeled, required client input. 5/6

☐ **No additional discrepancies**

Date Logged 4/23/25 **By (print)** ABD **(sign)** ABD
Date Labeled _____ **By (print)** _____ **(sign)** _____

ENTHALPY ANALYTICAL

Analysis Results for 531606

Vincent Patula
Universal Engineering Sciences
14538 Meridian Pkwy
Riverside, CA 92518

Lab Job #: 531606
Location: Building 515 Renovation / 4910-2300060.0000
Date Received: 04/23/25

Sample ID: S-1 - NORTH OF STOCKPILE | **Lab ID:** 531606-001 | **Matrix:** Soil | **Collected:** 04/23/25 08:45

531606-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	369600	04/23/25	04/24/25	KLN
Arsenic	**13**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Barium	**140**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Beryllium	ND		mg/Kg	0.49	0.98	369600	04/23/25	04/24/25	KLN
Cadmium	ND		mg/Kg	0.49	0.98	369600	04/23/25	04/24/25	KLN
Chromium	**31**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Cobalt	**9.3**		mg/Kg	0.49	0.98	369600	04/23/25	04/24/25	KLN
Copper	**23**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Lead	**7.0**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Molybdenum	ND		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Nickel	**13**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Selenium	ND		mg/Kg	2.9	0.98	369600	04/23/25	04/24/25	KLN
Silver	ND		mg/Kg	0.49	0.98	369600	04/23/25	04/24/25	KLN
Thallium	ND		mg/Kg	2.9	0.98	369600	04/23/25	04/24/25	KLN
Vanadium	**59**		mg/Kg	0.98	0.98	369600	04/23/25	04/24/25	KLN
Zinc	**48**		mg/Kg	4.9	0.98	369600	04/23/25	04/24/25	KLN
Method: EPA 7471A Prep Method: EPA 7471A									
Mercury	ND		mg/Kg	0.15	1.1	369629	04/24/25	04/24/25	MLL
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C6-C10	ND		mg/Kg	10	1	369610	04/24/25	04/24/25	KMB
DRO C10-C28	**15**		mg/Kg	10	1	369610	04/24/25	04/24/25	KMB
ORO C28-C44	**79**		mg/Kg	20	1	369610	04/24/25	04/24/25	KMB
Surrogates				**Limits**					
n-Triacontane	79%		%REC	70-130	1	369610	04/24/25	04/24/25	KMB
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
beta-BHC	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
gamma-BHC	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
delta-BHC	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Heptachlor	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Aldrin	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Heptachlor epoxide	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Endosulfan I	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Dieldrin	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
4,4'-DDE	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Endrin	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Endosulfan II	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Endosulfan sulfate	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
4,4'-DDD	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Endrin aldehyde	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Endrin ketone	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
4,4'-DDT	ND		ug/Kg	25	5	369559	04/24/25	04/25/25	KLR
Methoxychlor	ND		ug/Kg	50	5	369559	04/24/25	04/25/25	KLR
Toxaphene	ND		ug/Kg	500	5	369559	04/24/25	04/25/25	KLR
Chlordane (Technical)	ND		ug/Kg	250	5	369559	04/24/25	04/25/25	KLR
Surrogates				**Limits**					
TCMX	94%		%REC	23-120	5	369559	04/24/25	04/25/25	KLR
Decachlorobiphenyl	98%		%REC	24-120	5	369559	04/24/25	04/25/25	KLR
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1221	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1232	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1242	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1248	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1254	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1260	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1262	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Aroclor-1268	ND		ug/Kg	100	2	369559	04/24/25	04/25/25	MES
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	133%	*	%REC	19-121	2	369559	04/24/25	04/25/25	MES
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Freon 12	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Chloromethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Vinyl Chloride	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Bromomethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Chloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Trichlorofluoromethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Acetone	ND		ug/Kg	99	0.99	369622	04/24/25	04/24/25	HMN
Freon 113	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1-Dichloroethene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Methylene Chloride	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
MTBE	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1-Dichloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
2-Butanone	ND		ug/Kg	99	0.99	369622	04/24/25	04/24/25	HMN
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
2,2-Dichloropropane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Chloroform	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Bromochloromethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1,1-Trichloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1-Dichloropropene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Carbon Tetrachloride	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2-Dichloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Benzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Trichloroethene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dichloropropane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Bromodichloromethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Dibromomethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Toluene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1,2-Trichloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,3-Dichloropropane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Tetrachloroethene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Dibromochloromethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2-Dibromoethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Chlorobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Ethylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
m,p-Xylenes	ND		ug/Kg	9.9	0.99	369622	04/24/25	04/24/25	HMN
o-Xylene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Styrene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Bromoform	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Isopropylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2,3-Trichloropropane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Propylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Bromobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
2-Chlorotoluene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
4-Chlorotoluene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
tert-Butylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
sec-Butylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
para-Isopropyl Toluene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,3-Dichlorobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,4-Dichlorobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
n-Butylbenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2-Dichlorobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Hexachlorobutadiene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Naphthalene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Xylene (total)	ND		ug/Kg	5.0	0.99	369622	04/24/25	04/24/25	HMN
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	0.99	369622	04/24/25	04/24/25	HMN
1,2-Dichloroethane-d4	110%		%REC	70-145	0.99	369622	04/24/25	04/24/25	HMN
Toluene-d8	97%		%REC	70-145	0.99	369622	04/24/25	04/24/25	HMN
Bromofluorobenzene	102%		%REC	70-145	0.99	369622	04/24/25	04/24/25	HMN
Method: EPA 8270C-SIM Prep Method: EPA 3546									
1-Methylnaphthalene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
2-Methylnaphthalene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Naphthalene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Acenaphthylene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Acenaphthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Fluorene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Phenanthrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Anthracene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Fluoranthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Pyrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(a)anthracene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Chrysene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(b)fluoranthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(k)fluoranthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(a)pyrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Dibenz(a,h)anthracene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(g,h,i)perylene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Surrogates				**Limits**					
Nitrobenzene-d5	63%	E	%REC	27-125	1	369607	04/24/25	04/24/25	ZFA
2-Fluorobiphenyl	59%	E	%REC	30-120	1	369607	04/24/25	04/24/25	ZFA
Terphenyl-d14	73%	E	%REC	33-155	1	369607	04/24/25	04/24/25	ZFA
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1-Methylnaphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Pyridine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
N-Nitrosodimethylamine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Phenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Aniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
2-Chlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,3-Dichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,4-Dichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzyl alcohol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,2-Dichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Methylphenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
3-,4-Methylphenol	ND		ug/Kg	400	1	369607	04/24/25	04/25/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachloroethane	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Nitrobenzene	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Isophorone	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Nitrophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dimethylphenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzoic acid	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dichlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Naphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Chloroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachlorobutadiene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2-Methylnaphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Chloronaphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Nitroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Dimethylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Acenaphthylene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,6-Dinitrotoluene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
3-Nitroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Acenaphthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
4-Nitrophenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Dibenzofuran	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dinitrotoluene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Diethylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Fluorene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Nitroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Pentachlorophenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Phenanthrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Anthracene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Di-n-butylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Fluoranthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzidine	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Pyrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Butylbenzylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Benzo(a)anthracene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Chrysene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Di-n-octylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(b)fluoranthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(k)fluoranthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(a)pyrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Surrogates				**Limits**					
2-Fluorophenol	72%		%REC	29-120	1	369607	04/24/25	04/25/25	ZFA
Phenol-d6	75%		%REC	30-120	1	369607	04/24/25	04/25/25	ZFA
2,4,6-Tribromophenol	74%		%REC	32-120	1	369607	04/24/25	04/25/25	ZFA
Nitrobenzene-d5	74%		%REC	33-120	1	369607	04/24/25	04/25/25	ZFA
2-Fluorobiphenyl	77%		%REC	39-120	1	369607	04/24/25	04/25/25	ZFA
Terphenyl-d14	77%		%REC	44-125	1	369607	04/24/25	04/25/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 9045C									
pH	**8.90**		SU		1	369666	04/24/25	04/24/25	TRR
Temperature	**22.40**		deg C	1.00	1	369666	04/24/25	04/24/25	TRR
Method: SM2510B Prep Method: METHOD									
Specific Conductance	**560**		umhos/cm	1.0	1	369930	04/28/25	04/28/25	RDL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

Sample ID:	Lab ID: 531606-002	Collected: 04/23/25 08:46
S-2 - SOUTH OF STOCKPILE	Matrix: Soil	

531606-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.95	369600	04/23/25	04/24/25	KLN
Arsenic	**19**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Barium	**110**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Beryllium	ND		mg/Kg	0.48	0.95	369600	04/23/25	04/24/25	KLN
Cadmium	ND		mg/Kg	0.48	0.95	369600	04/23/25	04/24/25	KLN
Chromium	**30**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Cobalt	**8.3**		mg/Kg	0.48	0.95	369600	04/23/25	04/24/25	KLN
Copper	**35**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Lead	**18**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Molybdenum	ND		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Nickel	**13**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Selenium	ND		mg/Kg	2.9	0.95	369600	04/23/25	04/24/25	KLN
Silver	ND		mg/Kg	0.48	0.95	369600	04/23/25	04/24/25	KLN
Thallium	ND		mg/Kg	2.9	0.95	369600	04/23/25	04/24/25	KLN
Vanadium	**55**		mg/Kg	0.95	0.95	369600	04/23/25	04/24/25	KLN
Zinc	**64**		mg/Kg	4.8	0.95	369600	04/23/25	04/24/25	KLN
Method: EPA 7471A Prep Method: EPA 7471A									
Mercury	ND		mg/Kg	0.14	1	369629	04/24/25	04/24/25	MLL
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C6-C10	ND		mg/Kg	9.9	0.99	369610	04/24/25	04/24/25	KMB
DRO C10-C28	**16**		mg/Kg	9.9	0.99	369610	04/24/25	04/24/25	KMB
ORO C28-C44	**180**		mg/Kg	20	0.99	369610	04/24/25	04/24/25	KMB
Surrogates				**Limits**					
n-Triacontane	76%		%REC	70-130	0.99	369610	04/24/25	04/24/25	KMB
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
beta-BHC	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
gamma-BHC	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
delta-BHC	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Heptachlor	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Aldrin	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Heptachlor epoxide	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Endosulfan I	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Dieldrin	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
4,4'-DDE	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Endrin	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Endosulfan II	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Endosulfan sulfate	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
4,4'-DDD	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Endrin aldehyde	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
Endrin ketone	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR
4,4'-DDT	ND		ug/Kg	5.1	1	369559	04/24/25	04/25/25	KLR

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methoxychlor	ND		ug/Kg	10	1	369559	04/24/25	04/25/25	KLR
Toxaphene	ND		ug/Kg	100	1	369559	04/24/25	04/25/25	KLR
Chlordane (Technical)	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Surrogates				**Limits**					
TCMX	74%		%REC	23-120	1	369559	04/24/25	04/25/25	KLR
Decachlorobiphenyl	63%		%REC	24-120	1	369559	04/24/25	04/25/25	KLR
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1221	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1232	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1242	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1248	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1254	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1260	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1262	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Aroclor-1268	ND		ug/Kg	51	1	369559	04/24/25	04/25/25	KLR
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	74%		%REC	19-121	1	369559	04/24/25	04/25/25	KLR
Method: EPA 8260B Prep Method: EPA 5030B									
3-Chloropropene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Freon 12	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Chloromethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Vinyl Chloride	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Bromomethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Chloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Trichlorofluoromethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Acetone	ND		ug/Kg	100	1	369622	04/24/25	04/24/25	ZST
Freon 113	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1-Dichloroethene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Methylene Chloride	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
MTBE	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
trans-1,2-Dichloroethene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1-Dichloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
2-Butanone	ND		ug/Kg	100	1	369622	04/24/25	04/24/25	ZST
cis-1,2-Dichloroethene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
2,2-Dichloropropane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Chloroform	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Bromochloromethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1,1-Trichloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1-Dichloropropene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Carbon Tetrachloride	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2-Dichloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Benzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Trichloroethene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2-Dichloropropane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Bromodichloromethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Dibromomethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
4-Methyl-2-Pentanone	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
cis-1,3-Dichloropropene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Toluene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
trans-1,3-Dichloropropene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1,2-Trichloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,3-Dichloropropane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Tetrachloroethene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Dibromochloromethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2-Dibromoethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Chlorobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Ethylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
m,p-Xylenes	ND		ug/Kg	10	1	369622	04/24/25	04/24/25	ZST
o-Xylene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Styrene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Bromoform	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Isopropylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2,3-Trichloropropane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Propylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Bromobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,3,5-Trimethylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
2-Chlorotoluene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
4-Chlorotoluene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
tert-Butylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2,4-Trimethylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
sec-Butylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
para-Isopropyl Toluene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,3-Dichlorobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,4-Dichlorobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
n-Butylbenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2-Dichlorobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2,4-Trichlorobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Hexachlorobutadiene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Naphthalene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
1,2,3-Trichlorobenzene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Xylene (total)	ND		ug/Kg	5.1	1	369622	04/24/25	04/24/25	ZST
Surrogates				**Limits**					
Dibromofluoromethane	104%		%REC	70-145	1	369622	04/24/25	04/24/25	ZST
1,2-Dichloroethane-d4	115%		%REC	70-145	1	369622	04/24/25	04/24/25	ZST
Toluene-d8	98%		%REC	70-145	1	369622	04/24/25	04/24/25	ZST
Bromofluorobenzene	101%		%REC	70-145	1	369622	04/24/25	04/24/25	ZST
Method: EPA 8270C-SIM Prep Method: EPA 3546									
1-Methylnaphthalene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
2-Methylnaphthalene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Naphthalene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Acenaphthylene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Acenaphthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Fluorene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Phenanthrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Anthracene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Fluoranthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Pyrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(a)anthracene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Chrysene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(b)fluoranthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(k)fluoranthene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(a)pyrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Dibenz(a,h)anthracene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Benzo(g,h,i)perylene	ND		ug/Kg	10	1	369607	04/24/25	04/24/25	ZFA
Surrogates				**Limits**					
Nitrobenzene-d5	58%	E	%REC	27-125	1	369607	04/24/25	04/24/25	ZFA
2-Fluorobiphenyl	56%	E	%REC	30-120	1	369607	04/24/25	04/24/25	ZFA
Terphenyl-d14	68%	E	%REC	33-155	1	369607	04/24/25	04/24/25	ZFA
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1-Methylnaphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Pyridine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
N-Nitrosodimethylamine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Phenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Aniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
2-Chlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,3-Dichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,4-Dichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzyl alcohol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,2-Dichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Methylphenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
3-,4-Methylphenol	ND		ug/Kg	400	1	369607	04/24/25	04/25/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachloroethane	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Nitrobenzene	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Isophorone	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Nitrophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dimethylphenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzoic acid	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dichlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,2,4-Trichlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Naphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Chloroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachlorobutadiene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Chloro-3-methylphenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Methylnaphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
2,4,6-Trichlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4,5-Trichlorophenol	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2-Chloronaphthalene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
2-Nitroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Dimethylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Acenaphthylene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,6-Dinitrotoluene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
3-Nitroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Acenaphthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dinitrophenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
4-Nitrophenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Dibenzofuran	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
2,4-Dinitrotoluene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Diethylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Fluorene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Nitroaniline	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
N-Nitrosodiphenylamine	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
4-Bromophenyl-phenylether	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Hexachlorobenzene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Pentachlorophenol	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Phenanthrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Anthracene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Di-n-butylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Fluoranthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzidine	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Pyrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Butylbenzylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	1	369607	04/24/25	04/25/25	ZFA
Benzo(a)anthracene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Chrysene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Di-n-octylphthalate	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(b)fluoranthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(k)fluoranthene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(a)pyrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Dibenz(a,h)anthracene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Benzo(g,h,i)perylene	ND		ug/Kg	250	1	369607	04/24/25	04/25/25	ZFA
Surrogates				**Limits**					
2-Fluorophenol	65%		%REC	29-120	1	369607	04/24/25	04/25/25	ZFA
Phenol-d6	66%		%REC	30-120	1	369607	04/24/25	04/25/25	ZFA
2,4,6-Tribromophenol	73%		%REC	32-120	1	369607	04/24/25	04/25/25	ZFA
Nitrobenzene-d5	71%		%REC	33-120	1	369607	04/24/25	04/25/25	ZFA
2-Fluorobiphenyl	72%		%REC	39-120	1	369607	04/24/25	04/25/25	ZFA
Terphenyl-d14	74%		%REC	44-125	1	369607	04/24/25	04/25/25	ZFA
Method: EPA 9045C									
pH	**8.31**		SU		1	369666	04/24/25	04/24/25	TRR
Temperature	**22.50**		deg C	1.00	1	369666	04/24/25	04/24/25	TRR
Method: SM2510B Prep Method: METHOD									

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 531606

531606-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Specific Conductance	**290**		umhos/cm	1.0	1	369930	04/28/25	04/28/25	RDL

* Value is outside QC limits

E Response exceeds instrument's linear range

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1251400**	**Batch:**	**369600**
Matrix:	**Soil**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC1251400 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	04/23/25	04/24/25
Arsenic	ND		mg/Kg	1.0	04/23/25	04/24/25
Barium	ND		mg/Kg	1.0	04/23/25	04/24/25
Beryllium	ND		mg/Kg	0.50	04/23/25	04/24/25
Cadmium	ND		mg/Kg	0.50	04/23/25	04/24/25
Chromium	ND		mg/Kg	1.0	04/23/25	04/24/25
Cobalt	ND		mg/Kg	0.50	04/23/25	04/24/25
Copper	ND		mg/Kg	1.0	04/23/25	04/24/25
Lead	ND		mg/Kg	1.0	04/23/25	04/24/25
Molybdenum	ND		mg/Kg	1.0	04/23/25	04/24/25
Nickel	ND		mg/Kg	1.0	04/23/25	04/24/25
Selenium	ND		mg/Kg	3.0	04/23/25	04/24/25
Silver	ND		mg/Kg	0.50	04/23/25	04/24/25
Thallium	ND		mg/Kg	3.0	04/23/25	04/24/25
Vanadium	ND		mg/Kg	1.0	04/23/25	04/24/25
Zinc	ND		mg/Kg	5.0	04/23/25	04/24/25

Type:	**Lab Control Sample**	**Lab ID:**	**QC1251401**	**Batch:**	**369600**
Matrix:	**Soil**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC1251401 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	98.55	100.0	mg/Kg	99%		80-120
Arsenic	100.7	100.0	mg/Kg	101%		80-120
Barium	102.8	100.0	mg/Kg	103%		80-120
Beryllium	102.4	100.0	mg/Kg	102%		80-120
Cadmium	102.2	100.0	mg/Kg	102%		80-120
Chromium	99.57	100.0	mg/Kg	100%		80-120
Cobalt	103.0	100.0	mg/Kg	103%		80-120
Copper	96.20	100.0	mg/Kg	96%		80-120
Lead	105.4	100.0	mg/Kg	105%		80-120
Molybdenum	98.45	100.0	mg/Kg	98%		80-120
Nickel	103.3	100.0	mg/Kg	103%		80-120
Selenium	96.42	100.0	mg/Kg	96%		80-120
Silver	48.55	50.00	mg/Kg	97%		80-120
Thallium	102.5	100.0	mg/Kg	103%		80-120
Vanadium	99.14	100.0	mg/Kg	99%		80-120
Zinc	100.0	100.0	mg/Kg	100%		80-120

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Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1251402**	**Batch:**	**369600**
Matrix (Source ID):	**Soil (531486-001)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC1251402 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	55.14	ND	98.04	mg/Kg	56%	*	75-125	0.98
Arsenic	102.4	1.617	98.04	mg/Kg	103%		75-125	0.98
Barium	175.4	47.73	98.04	mg/Kg	130%	*	75-125	0.98
Beryllium	101.9	0.1665	98.04	mg/Kg	104%		75-125	0.98
Cadmium	100.2	0.07974	98.04	mg/Kg	102%		75-125	0.98
Chromium	123.1	20.76	98.04	mg/Kg	104%		75-125	0.98
Cobalt	106.8	5.791	98.04	mg/Kg	103%		75-125	0.98
Copper	116.2	10.93	98.04	mg/Kg	107%		75-125	0.98
Lead	106.9	3.668	98.04	mg/Kg	105%		75-125	0.98
Molybdenum	94.85	ND	98.04	mg/Kg	97%		75-125	0.98
Nickel	122.0	18.52	98.04	mg/Kg	106%		75-125	0.98
Selenium	97.04	ND	98.04	mg/Kg	99%		75-125	0.98
Silver	49.55	ND	49.02	mg/Kg	101%		75-125	0.98
Thallium	100.3	ND	98.04	mg/Kg	102%		75-125	0.98
Vanadium	134.5	29.51	98.04	mg/Kg	107%		75-125	0.98
Zinc	118.2	18.13	98.04	mg/Kg	102%		75-125	0.98

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1251403**	**Batch:**	**369600**
Matrix (Source ID):	**Soil (531486-001)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC1251403 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	54.62	ND	100.0	mg/Kg	55%	*	75-125	3	41	1
Arsenic	101.1	1.617	100.0	mg/Kg	100%		75-125	3	35	1
Barium	170.9	47.73	100.0	mg/Kg	123%		75-125	4	20	1
Beryllium	100.5	0.1665	100.0	mg/Kg	100%		75-125	3	20	1
Cadmium	98.88	0.07974	100.0	mg/Kg	99%		75-125	3	20	1
Chromium	120.3	20.76	100.0	mg/Kg	100%		75-125	4	20	1
Cobalt	105.6	5.791	100.0	mg/Kg	100%		75-125	3	20	1
Copper	113.7	10.93	100.0	mg/Kg	103%		75-125	4	20	1
Lead	104.3	3.668	100.0	mg/Kg	101%		75-125	4	20	1
Molybdenum	94.24	ND	100.0	mg/Kg	94%		75-125	3	20	1
Nickel	123.5	18.52	100.0	mg/Kg	105%		75-125	0	20	1
Selenium	95.73	ND	100.0	mg/Kg	96%		75-125	3	20	1
Silver	48.94	ND	50.00	mg/Kg	98%		75-125	3	20	1
Thallium	98.96	ND	100.0	mg/Kg	99%		75-125	3	20	1
Vanadium	136.7	29.51	100.0	mg/Kg	107%		75-125	0	20	1
Zinc	119.0	18.13	100.0	mg/Kg	101%		75-125	1	20	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Post Digest Spike	Lab ID:	QC1251404	Batch:	369600
Matrix (Source ID):	Soil (531486-001)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1251404 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	94.31	ND	96.15	mg/Kg	98%		75-125	0.96
Arsenic	94.12	1.617	96.15	mg/Kg	96%		75-125	0.96
Barium	139.0	47.73	96.15	mg/Kg	95%		75-125	0.96
Beryllium	92.68	0.1665	96.15	mg/Kg	96%		75-125	0.96
Cadmium	90.72	0.07974	96.15	mg/Kg	94%		75-125	0.96
Chromium	109.6	20.76	96.15	mg/Kg	92%		75-125	0.96
Cobalt	95.65	5.791	96.15	mg/Kg	93%		75-125	0.96
Copper	103.6	10.93	96.15	mg/Kg	96%		75-125	0.96
Lead	97.15	3.668	96.15	mg/Kg	97%		75-125	0.96
Molybdenum	91.72	ND	96.15	mg/Kg	95%		75-125	0.96
Nickel	109.5	18.52	96.15	mg/Kg	95%		75-125	0.96
Selenium	90.04	ND	96.15	mg/Kg	94%		75-125	0.96
Silver	45.71	ND	48.08	mg/Kg	95%		75-125	0.96
Thallium	91.67	ND	96.15	mg/Kg	95%		75-125	0.96
Vanadium	120.7	29.51	96.15	mg/Kg	95%		75-125	0.96
Zinc	105.6	18.13	96.15	mg/Kg	91%		75-125	0.96

Type:	Serial Dilution	Lab ID:	QC1251551	Batch:	369600
Matrix (Source ID):	Soil (531486-001)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1251551 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Antimony	ND	ND	mg/Kg				4.8
Arsenic	ND	1.617	mg/Kg				4.8
Barium	48.85	47.73	mg/Kg				4.8
Beryllium	ND	0.1665	mg/Kg				4.8
Cadmium	ND	0.07974	mg/Kg				4.8
Chromium	21.00	20.76	mg/Kg				4.8
Cobalt	5.795	5.791	mg/Kg				4.8
Copper	9.846	10.93	mg/Kg				4.8
Lead	ND	3.668	mg/Kg				4.8
Molybdenum	ND	ND	mg/Kg				4.8
Nickel	18.54	18.52	mg/Kg				4.8
Selenium	ND	ND	mg/Kg				4.8
Silver	ND	ND	mg/Kg				4.8
Thallium	ND	ND	mg/Kg				4.8
Vanadium	29.43	29.51	mg/Kg				4.8
Zinc	17.97	18.13	mg/Kg	J			4.8

Type:	Blank	Lab ID:	QC1251526	Batch:	369629
Matrix:	Soil	Method:	EPA 7471A	Prep Method:	EPA 7471A

QC1251526 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	04/24/25	04/24/25

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1251527	Batch: 369629
Matrix: Soil	Method: EPA 7471A	Prep Method: EPA 7471A

QC1251527 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8575	0.8333	mg/Kg	103%		80-120

Type: Matrix Spike	Lab ID: QC1251528	Batch: 369629
Matrix (Source ID): Soil (531631-012)	Method: EPA 7471A	Prep Method: EPA 7471A

QC1251528 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9858	ND	0.9259	mg/Kg	106%		75-125	1.1

Type: Matrix Spike Duplicate	Lab ID: QC1251529	Batch: 369629
Matrix (Source ID): Soil (531631-012)	Method: EPA 7471A	Prep Method: EPA 7471A

QC1251529 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	1.002	ND	0.9804	mg/Kg	102%		75-125	4	20	1.2

Type: Blank	Lab ID: QC1251438	Batch: 369610
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580M

QC1251438 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C6-C10	ND		mg/Kg	9.9	04/24/25	04/24/25
DRO C10-C28	ND		mg/Kg	9.9	04/24/25	04/24/25
ORO C28-C44	ND		mg/Kg	20	04/24/25	04/24/25
Surrogates				**Limits**		
n-Triacontane	84%		%REC	70-130	04/24/25	04/24/25

Type: Lab Control Sample	Lab ID: QC1251439	Batch: 369610
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580M

QC1251439 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	228.9	249.5	mg/Kg	92%		76-122
Surrogates						
n-Triacontane	8.236	9.980	mg/Kg	83%		70-130

Type: Matrix Spike	Lab ID: QC1251440	Batch: 369610
Matrix (Source ID): Soil (531570-004)	Method: EPA 8015M	Prep Method: EPA 3580M

QC1251440 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	243.2	ND	250.0	mg/Kg	97%		62-126	1
Surrogates								
n-Triacontane	8.875		10.00	mg/Kg	89%		70-130	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1251441**	**Batch:**	**369610**
Matrix (Source ID):	**Soil (531570-004)**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1251441 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	220.9	ND	248.5	mg/Kg	89%		62-126	9	35	0.99
Surrogates										
n-Triacontane	8.191		9.940	mg/Kg	82%		70-130			0.99

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1251314	Batch: 369559
Matrix: Soil		

QC1251314 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546						
alpha-BHC	ND		ug/Kg	5.0	04/23/25	04/23/25
beta-BHC	ND		ug/Kg	5.0	04/23/25	04/23/25
gamma-BHC	ND		ug/Kg	5.0	04/23/25	04/23/25
delta-BHC	ND		ug/Kg	5.0	04/23/25	04/23/25
Heptachlor	ND		ug/Kg	5.0	04/23/25	04/23/25
Aldrin	ND		ug/Kg	5.0	04/23/25	04/23/25
Heptachlor epoxide	ND		ug/Kg	5.0	04/23/25	04/23/25
Endosulfan I	ND		ug/Kg	5.0	04/23/25	04/23/25
Dieldrin	ND		ug/Kg	5.0	04/23/25	04/23/25
4,4'-DDE	ND		ug/Kg	5.0	04/23/25	04/23/25
Endrin	ND		ug/Kg	5.0	04/23/25	04/23/25
Endosulfan II	ND		ug/Kg	5.0	04/23/25	04/23/25
Endosulfan sulfate	ND		ug/Kg	5.0	04/23/25	04/23/25
4,4'-DDD	ND		ug/Kg	5.0	04/23/25	04/23/25
Endrin aldehyde	ND		ug/Kg	5.0	04/23/25	04/23/25
Endrin ketone	ND		ug/Kg	5.0	04/23/25	04/23/25
4,4'-DDT	ND		ug/Kg	5.0	04/23/25	04/23/25
Methoxychlor	ND		ug/Kg	9.9	04/23/25	04/23/25
Toxaphene	ND		ug/Kg	99	04/23/25	04/23/25
Chlordane (Technical)	ND		ug/Kg	50	04/23/25	04/23/25
Surrogates				**Limits**		
TCMX	93%		%REC	23-120	04/23/25	04/23/25
Decachlorobiphenyl	83%		%REC	24-120	04/23/25	04/23/25
Method: EPA 8082 Prep Method: EPA 3546						
Aroclor-1016	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1221	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1232	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1242	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1248	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1254	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1260	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1262	ND		ug/Kg	50	04/23/25	04/25/25
Aroclor-1268	ND		ug/Kg	50	04/23/25	04/25/25
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	130%	*	%REC	19-121	04/23/25	04/25/25

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1251315	**Batch:** 369559
Matrix: Soil	**Method:** EPA 8081A	**Prep Method:** EPA 3546

QC1251315 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	45.72	49.02	ug/Kg	93%		22-129
beta-BHC	45.66	49.02	ug/Kg	93%		28-125
gamma-BHC	47.03	49.02	ug/Kg	96%		22-128
delta-BHC	46.25	49.02	ug/Kg	94%		24-131
Heptachlor	46.13	49.02	ug/Kg	94%		18-124
Aldrin	42.89	49.02	ug/Kg	87%		23-120
Heptachlor epoxide	43.87	49.02	ug/Kg	89%		26-120
Endosulfan I	45.12	49.02	ug/Kg	92%		25-126
Dieldrin	43.79	49.02	ug/Kg	89%		23-124
4,4'-DDE	45.52	49.02	ug/Kg	93%		28-121
Endrin	44.69	49.02	ug/Kg	91%		25-127
Endosulfan II	44.60	49.02	ug/Kg	91%		29-121
Endosulfan sulfate	43.00	49.02	ug/Kg	88%		30-121
4,4'-DDD	42.14	49.02	ug/Kg	86%		26-120
Endrin aldehyde	38.00	49.02	ug/Kg	78%		10-120
Endrin ketone	43.22	49.02	ug/Kg	88%		28-125
4,4'-DDT	45.29	49.02	ug/Kg	92%		22-125
Methoxychlor	49.77	49.02	ug/Kg	102%	#	28-130
Surrogates						
TCMX	45.58	49.02	ug/Kg	93%		23-120
Decachlorobiphenyl	41.14	49.02	ug/Kg	84%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1251316**	**Batch:**	**369559**
Matrix (Source ID):	**Soil (530940-045)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1251316 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	43.16	ND	51.02	ug/Kg	85%		46-120	1
beta-BHC	39.48	ND	51.02	ug/Kg	77%		41-120	1
gamma-BHC	50.11	ND	51.02	ug/Kg	98%		41-120	1
delta-BHC	49.08	ND	51.02	ug/Kg	96%		38-123	1
Heptachlor	1,963	1779	51.02	ug/Kg	361%	E,NM	39-120	1
Aldrin	53.07	ND	51.02	ug/Kg	104%		34-120	1
Heptachlor epoxide	551.4	ND	51.02	ug/Kg	1081%	E,*	43-120	1
Endosulfan I	53.97	ND	51.02	ug/Kg	106%		45-120	1
Dieldrin	356.9	242.8	51.02	ug/Kg	224%	E,NM	45-120	1
4,4'-DDE	494.0	ND	51.02	ug/Kg	968%	E,*	34-120	1
Endrin	1,876	155.1	51.02	ug/Kg	3373%	E,*	40-120	1
Endosulfan II	60.08	146.9	51.02	ug/Kg	-170%	*	41-120	1
Endosulfan sulfate	32.14	46.23	51.02	ug/Kg	-28%	*	42-120	1
4,4'-DDD	2,066	2206	51.02	ug/Kg	-275%	E,NM	41-120	1
Endrin aldehyde	95.32	90.87	51.02	ug/Kg	9%	*	30-120	1
Endrin ketone	109.3	69.59	51.02	ug/Kg	78%		45-120	1
4,4'-DDT	107.2	111.2	51.02	ug/Kg	-8%	*	35-127	1
Methoxychlor	81.11	ND	51.02	ug/Kg	159%	#,*	42-136	1
Surrogates								
TCMX	40.61		51.02	ug/Kg	80%		23-120	1
Decachlorobiphenyl	37.16		51.02	ug/Kg	73%		24-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1251317	Batch:	369559
Matrix (Source ID):	Soil (530940-045)	Method:	EPA 8081A	Prep Method:	EPA 3546

QC1251317 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	43.51	ND	51.02	ug/Kg	85%		46-120	1	30	1
beta-BHC	35.49	ND	51.02	ug/Kg	70%		41-120	11	30	1
gamma-BHC	50.01	ND	51.02	ug/Kg	98%		41-120	0	30	1
delta-BHC	58.51	ND	51.02	ug/Kg	115%		38-123	18	30	1
Heptachlor	2,443	1779	51.02	ug/Kg	1301%	E,NM	39-120		30	1
Aldrin	58.92	ND	51.02	ug/Kg	115%		34-120	10	30	1
Heptachlor epoxide	569.0	ND	51.02	ug/Kg	1115%	E,*	43-120		30	1
Endosulfan I	52.21	ND	51.02	ug/Kg	102%		45-120	3	30	1
Dieldrin	478.8	242.8	51.02	ug/Kg	463%	E,NM	45-120		30	1
4,4'-DDE	566.2	ND	51.02	ug/Kg	1110%	E,*	34-120		30	1
Endrin	2,278	155.1	51.02	ug/Kg	4161%	E,*	40-120		30	1
Endosulfan II	236.6	146.9	51.02	ug/Kg	176%	*	41-120	119*	30	1
Endosulfan sulfate	28.04	46.23	51.02	ug/Kg	-36%	*	42-120	14	30	1
4,4'-DDD	2,515	2206	51.02	ug/Kg	606%	E,NM	41-120		30	1
Endrin aldehyde	138.4	90.87	51.02	ug/Kg	93%		30-120	37*	30	1
Endrin ketone	136.0	69.59	51.02	ug/Kg	130%	*	45-120	22	30	1
4,4'-DDT	132.8	111.2	51.02	ug/Kg	42%		35-127	21	30	1
Methoxychlor	53.71	ND	51.02	ug/Kg	105%	#	42-136	41*	30	1
Surrogates										
TCMX	41.12		51.02	ug/Kg	81%		23-120			1
Decachlorobiphenyl	37.21		51.02	ug/Kg	73%		24-120			1

Type:	Lab Control Sample	Lab ID:	QC1251612	Batch:	369559
Matrix:	Soil	Method:	EPA 8082	Prep Method:	EPA 3546

QC1251612 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	588.4	500.0	ug/Kg	118%		14-150
Aroclor-1260	634.0	500.0	ug/Kg	127%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	65.21	50.00	ug/Kg	130%	*	19-121

Type:	Matrix Spike	Lab ID:	QC1251613	Batch:	369559
Matrix (Source ID):	Soil (531544-003)	Method:	EPA 8082	Prep Method:	EPA 3546

QC1251613 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	477.0	ND	505.1	ug/Kg	94%		42-127	1
Aroclor-1260	582.7	ND	505.1	ug/Kg	115%		38-130	1
Surrogates								
Decachlorobiphenyl (PCB)	61.04		50.51	ug/Kg	121%		19-121	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1251614**	**Batch:**	**369559**
Matrix (Source ID):	**Soil (531544-003)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1251614 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	490.4	ND	490.2	ug/Kg	100%		42-127	6	30	0.98
Aroclor-1260	553.5	ND	490.2	ug/Kg	113%		38-130	2	30	0.98
Surrogates										
Decachlorobiphenyl (PCB)	58.72		49.02	ug/Kg	120%		19-121			0.98

Type:	**Lab Control Sample**	**Lab ID:**	**QC1251495**	**Batch:**	**369622**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1251495 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	56.66	50.00	ug/Kg	113%		70-131
MTBE	47.55	50.00	ug/Kg	95%		69-130
Benzene	52.62	50.00	ug/Kg	105%		70-130
Trichloroethene	44.40	50.00	ug/Kg	89%		70-130
Toluene	49.99	50.00	ug/Kg	100%		70-130
Chlorobenzene	48.98	50.00	ug/Kg	98%		70-130
Surrogates						
Dibromofluoromethane	51.80	50.00	ug/Kg	104%		70-130
1,2-Dichloroethane-d4	55.90	50.00	ug/Kg	112%		70-145
Toluene-d8	49.59	50.00	ug/Kg	99%		70-145
Bromofluorobenzene	52.89	50.00	ug/Kg	106%		70-145

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1251496**	**Batch:**	**369622**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1251496 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	54.93	50.00	ug/Kg	110%		70-131	3	33
MTBE	49.25	50.00	ug/Kg	99%		69-130	4	30
Benzene	53.43	50.00	ug/Kg	107%		70-130	2	30
Trichloroethene	45.98	50.00	ug/Kg	92%		70-130	4	30
Toluene	47.66	50.00	ug/Kg	95%		70-130	5	30
Chlorobenzene	46.81	50.00	ug/Kg	94%		70-130	5	30
Surrogates								
Dibromofluoromethane	53.35	50.00	ug/Kg	107%		70-130		
1,2-Dichloroethane-d4	56.33	50.00	ug/Kg	113%		70-145		
Toluene-d8	48.37	50.00	ug/Kg	97%		70-145		
Bromofluorobenzene	51.78	50.00	ug/Kg	104%		70-145		

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1251499**	**Batch:**	**369622**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1251499 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	04/24/25	04/24/25
Freon 12	ND		ug/Kg	5.0	04/24/25	04/24/25
Chloromethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Vinyl Chloride	ND		ug/Kg	5.0	04/24/25	04/24/25
Bromomethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Chloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Trichlorofluoromethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Acetone	ND		ug/Kg	100	04/24/25	04/24/25
Freon 113	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1-Dichloroethene	ND		ug/Kg	5.0	04/24/25	04/24/25
Methylene Chloride	ND		ug/Kg	5.0	04/24/25	04/24/25
MTBE	ND		ug/Kg	5.0	04/24/25	04/24/25
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1-Dichloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
2-Butanone	ND		ug/Kg	100	04/24/25	04/24/25
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	04/24/25	04/24/25
2,2-Dichloropropane	ND		ug/Kg	5.0	04/24/25	04/24/25
Chloroform	ND		ug/Kg	5.0	04/24/25	04/24/25
Bromochloromethane	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1,1-Trichloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1-Dichloropropene	ND		ug/Kg	5.0	04/24/25	04/24/25
Carbon Tetrachloride	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2-Dichloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Benzene	ND		ug/Kg	5.0	04/24/25	04/24/25
Trichloroethene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2-Dichloropropane	ND		ug/Kg	5.0	04/24/25	04/24/25
Bromodichloromethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Dibromomethane	ND		ug/Kg	5.0	04/24/25	04/24/25
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	04/24/25	04/24/25
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	04/24/25	04/24/25
Toluene	ND		ug/Kg	5.0	04/24/25	04/24/25
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1,2-Trichloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
1,3-Dichloropropane	ND		ug/Kg	5.0	04/24/25	04/24/25
Tetrachloroethene	ND		ug/Kg	5.0	04/24/25	04/24/25
Dibromochloromethane	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2-Dibromoethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Chlorobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
Ethylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
m,p-Xylenes	ND		ug/Kg	10	04/24/25	04/24/25
o-Xylene	ND		ug/Kg	5.0	04/24/25	04/24/25
Styrene	ND		ug/Kg	5.0	04/24/25	04/24/25
Bromoform	ND		ug/Kg	5.0	04/24/25	04/24/25
Isopropylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2,3-Trichloropropane	ND		ug/Kg	5.0	04/24/25	04/24/25

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Batch QC

QC1251499 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Propylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
Bromobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
2-Chlorotoluene	ND		ug/Kg	5.0	04/24/25	04/24/25
4-Chlorotoluene	ND		ug/Kg	5.0	04/24/25	04/24/25
tert-Butylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
sec-Butylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
para-Isopropyl Toluene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,3-Dichlorobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,4-Dichlorobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
n-Butylbenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2-Dichlorobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
Hexachlorobutadiene	ND		ug/Kg	5.0	04/24/25	04/24/25
Naphthalene	ND		ug/Kg	5.0	04/24/25	04/24/25
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	04/24/25	04/24/25
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	04/24/25	04/24/25
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	04/24/25	04/24/25
Xylene (total)	ND		ug/Kg	5.0	04/24/25	04/24/25
Surrogates				**Limits**		
Dibromofluoromethane	100%		%REC	70-130	04/24/25	04/24/25
1,2-Dichloroethane-d4	110%		%REC	70-145	04/24/25	04/24/25
Toluene-d8	98%		%REC	70-145	04/24/25	04/24/25
Bromofluorobenzene	101%		%REC	70-145	04/24/25	04/24/25

Type: Matrix Spike **Lab ID:** QC1251562 **Batch:** 369622
Matrix (Source ID): Soil (531606-001) **Method:** EPA 8260B **Prep Method:** EPA 5030B

QC1251562 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1,1-Dichloroethene	12.48	ND	19.69	ug/Kg	63%	*	70-141	0.98
MTBE	11.52	ND	19.69	ug/Kg	59%		59-130	0.98
Benzene	12.17	ND	19.69	ug/Kg	62%	*	70-130	0.98
Trichloroethene	9.515	ND	19.69	ug/Kg	48%	*	69-130	0.98
Toluene	11.35	ND	19.69	ug/Kg	58%	*	70-130	0.98
Chlorobenzene	11.48	ND	19.69	ug/Kg	58%	*	70-130	0.98
Surrogates								
Dibromofluoromethane	52.17		49.21	ug/Kg	106%		70-145	0.98
1,2-Dichloroethane-d4	56.69		49.21	ug/Kg	115%		70-145	0.98
Toluene-d8	48.03		49.21	ug/Kg	98%		70-145	0.98
Bromofluorobenzene	51.37		49.21	ug/Kg	104%		70-145	0.98

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Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1251563**	**Batch:**	**369622**
Matrix (Source ID):	**Soil (531606-001)**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1251563 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1,1-Dichloroethene	18.82	ND	19.92	ug/Kg	94%		70-141	39	43	1
MTBE	17.08	ND	19.92	ug/Kg	86%		59-130	38*	30	1
Benzene	18.07	ND	19.92	ug/Kg	91%		70-130	38*	30	1
Trichloroethene	14.33	ND	19.92	ug/Kg	72%		69-130	39*	30	1
Toluene	16.14	ND	19.92	ug/Kg	81%		70-130	34*	30	1
Chlorobenzene	16.07	ND	19.92	ug/Kg	81%		70-130	32*	30	1
Surrogates										
Dibromofluoromethane	53.91		49.80	ug/Kg	108%		70-145			1
1,2-Dichloroethane-d4	59.45		49.80	ug/Kg	119%		70-145			1
Toluene-d8	47.88		49.80	ug/Kg	96%		70-145			1
Bromofluorobenzene	50.36		49.80	ug/Kg	101%		70-145			1

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Batch QC

Type:	**Blank**	**Lab ID:**	**QC1251425**	**Batch:**	**369607**
Matrix:	**Soil**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1251425 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Carbazole	ND		ug/Kg	250	04/24/25	04/24/25
1-Methylnaphthalene	ND		ug/Kg	250	04/24/25	04/24/25
Pyridine	ND		ug/Kg	250	04/24/25	04/24/25
N-Nitrosodimethylamine	ND		ug/Kg	250	04/24/25	04/24/25
Phenol	ND		ug/Kg	250	04/24/25	04/24/25
Aniline	ND		ug/Kg	250	04/24/25	04/24/25
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	04/24/25	04/24/25
2-Chlorophenol	ND		ug/Kg	250	04/24/25	04/24/25
1,3-Dichlorobenzene	ND		ug/Kg	250	04/24/25	04/24/25
1,4-Dichlorobenzene	ND		ug/Kg	250	04/24/25	04/24/25
Benzyl alcohol	ND		ug/Kg	250	04/24/25	04/24/25
1,2-Dichlorobenzene	ND		ug/Kg	250	04/24/25	04/24/25
2-Methylphenol	ND		ug/Kg	250	04/24/25	04/24/25
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	04/24/25	04/24/25
3-,4-Methylphenol	ND		ug/Kg	400	04/24/25	04/24/25
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	04/24/25	04/24/25
Hexachloroethane	ND		ug/Kg	250	04/24/25	04/24/25
Nitrobenzene	ND		ug/Kg	1,200	04/24/25	04/24/25
Isophorone	ND		ug/Kg	250	04/24/25	04/24/25
2-Nitrophenol	ND		ug/Kg	250	04/24/25	04/24/25
2,4-Dimethylphenol	ND		ug/Kg	250	04/24/25	04/24/25
Benzoic acid	ND		ug/Kg	1,200	04/24/25	04/24/25
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	04/24/25	04/24/25
2,4-Dichlorophenol	ND		ug/Kg	250	04/24/25	04/24/25
1,2,4-Trichlorobenzene	ND		ug/Kg	250	04/24/25	04/24/25
Naphthalene	ND		ug/Kg	250	04/24/25	04/24/25
4-Chloroaniline	ND		ug/Kg	250	04/24/25	04/24/25
Hexachlorobutadiene	ND		ug/Kg	250	04/24/25	04/24/25
4-Chloro-3-methylphenol	ND		ug/Kg	250	04/24/25	04/24/25
2-Methylnaphthalene	ND		ug/Kg	250	04/24/25	04/24/25
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	04/24/25	04/24/25
2,4,6-Trichlorophenol	ND		ug/Kg	250	04/24/25	04/24/25
2,4,5-Trichlorophenol	ND		ug/Kg	250	04/24/25	04/24/25
2-Chloronaphthalene	ND		ug/Kg	250	04/24/25	04/24/25
2-Nitroaniline	ND		ug/Kg	250	04/24/25	04/24/25
Dimethylphthalate	ND		ug/Kg	250	04/24/25	04/24/25
Acenaphthylene	ND		ug/Kg	250	04/24/25	04/24/25
2,6-Dinitrotoluene	ND		ug/Kg	250	04/24/25	04/24/25
3-Nitroaniline	ND		ug/Kg	250	04/24/25	04/24/25
Acenaphthene	ND		ug/Kg	250	04/24/25	04/24/25
2,4-Dinitrophenol	ND		ug/Kg	1,200	04/24/25	04/24/25
4-Nitrophenol	ND		ug/Kg	1,200	04/24/25	04/24/25
Dibenzofuran	ND		ug/Kg	250	04/24/25	04/24/25
2,4-Dinitrotoluene	ND		ug/Kg	250	04/24/25	04/24/25
Diethylphthalate	ND		ug/Kg	250	04/24/25	04/24/25
Fluorene	ND		ug/Kg	250	04/24/25	04/24/25
4-Chlorophenyl-phenylether	ND		ug/Kg	250	04/24/25	04/24/25

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Batch QC

QC1251425 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
4-Nitroaniline	ND		ug/Kg	250	04/24/25	04/24/25
4,6-Dinitro-2-methylphenol	ND		ug/Kg	1,200	04/24/25	04/24/25
N-Nitrosodiphenylamine	ND		ug/Kg	250	04/24/25	04/24/25
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	04/24/25	04/24/25
4-Bromophenyl-phenylether	ND		ug/Kg	250	04/24/25	04/24/25
Hexachlorobenzene	ND		ug/Kg	250	04/24/25	04/24/25
Pentachlorophenol	ND		ug/Kg	1,200	04/24/25	04/24/25
Phenanthrene	ND		ug/Kg	250	04/24/25	04/24/25
Anthracene	ND		ug/Kg	250	04/24/25	04/24/25
Di-n-butylphthalate	ND		ug/Kg	250	04/24/25	04/24/25
Fluoranthene	ND		ug/Kg	250	04/24/25	04/24/25
Benzidine	ND		ug/Kg	1,200	04/24/25	04/24/25
Pyrene	ND		ug/Kg	250	04/24/25	04/24/25
Butylbenzylphthalate	ND		ug/Kg	250	04/24/25	04/24/25
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	04/24/25	04/24/25
Benzo(a)anthracene	ND		ug/Kg	250	04/24/25	04/24/25
Chrysene	ND		ug/Kg	250	04/24/25	04/24/25
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	04/24/25	04/24/25
Di-n-octylphthalate	ND		ug/Kg	250	04/24/25	04/24/25
Benzo(b)fluoranthene	ND		ug/Kg	250	04/24/25	04/24/25
Benzo(k)fluoranthene	ND		ug/Kg	250	04/24/25	04/24/25
Benzo(a)pyrene	ND		ug/Kg	250	04/24/25	04/24/25
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	04/24/25	04/24/25
Dibenz(a,h)anthracene	ND		ug/Kg	250	04/24/25	04/24/25
Benzo(g,h,i)perylene	ND		ug/Kg	250	04/24/25	04/24/25
Surrogates				**Limits**		
2-Fluorophenol	60%		%REC	29-120	04/24/25	04/24/25
Phenol-d6	61%		%REC	30-120	04/24/25	04/24/25
2,4,6-Tribromophenol	58%		%REC	32-120	04/24/25	04/24/25
Nitrobenzene-d5	59%		%REC	33-120	04/24/25	04/24/25
2-Fluorobiphenyl	62%		%REC	39-120	04/24/25	04/24/25
Terphenyl-d14	70%		%REC	44-125	04/24/25	04/24/25

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Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1251426**	**Batch:**	**369607**
Matrix:	**Soil**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1251426 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	2,592	3788	ug/Kg	68%		42-120
2-Chlorophenol	2,395	3788	ug/Kg	63%		41-120
1,4-Dichlorobenzene	2,499	3788	ug/Kg	66%		36-120
3-,4-Methylphenol	2,633	3788	ug/Kg	70%		42-120
N-Nitroso-di-n-propylamine	2,649	3788	ug/Kg	70%		43-121
2,4-Dimethylphenol	2,653	3788	ug/Kg	70%		25-120
1,2,4-Trichlorobenzene	2,447	3788	ug/Kg	65%		38-120
4-Chloro-3-methylphenol	2,728	3788	ug/Kg	72%		40-125
2,4,5-Trichlorophenol	2,628	3788	ug/Kg	69%		40-124
Acenaphthene	2,460	3788	ug/Kg	65%		35-126
4-Nitrophenol	2,906	3788	ug/Kg	77%		24-128
2,4-Dinitrotoluene	3,098	3788	ug/Kg	82%		40-131
Pentachlorophenol	2,067	3788	ug/Kg	55%		35-120
Pyrene	2,841	3788	ug/Kg	75%		37-135
Chrysene	2,769	3788	ug/Kg	73%		38-132
Benzo(b)fluoranthene	2,762	3788	ug/Kg	73%		38-135
Surrogates						
2-Fluorophenol	1,310	2020	ug/Kg	65%		29-120
Phenol-d6	1,355	2020	ug/Kg	67%		30-120
2,4,6-Tribromophenol	1,398	2020	ug/Kg	69%		32-120
Nitrobenzene-d5	1,310	2020	ug/Kg	65%		33-120
2-Fluorobiphenyl	1,246	2020	ug/Kg	62%		39-120
Terphenyl-d14	1,390	2020	ug/Kg	69%		44-125

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Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1251427**	**Batch:**	**369607**
Matrix (Source ID):	**Soil (531570-004)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1251427 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phenol	2,843	ND	3788	ug/Kg	75%		37-120	1
2-Chlorophenol	2,614	ND	3788	ug/Kg	69%		33-120	1
1,4-Dichlorobenzene	2,680	ND	3788	ug/Kg	71%		32-120	1
3-,4-Methylphenol	2,922	ND	3788	ug/Kg	77%		37-120	1
N-Nitroso-di-n-propylamine	2,928	ND	3788	ug/Kg	77%		32-120	1
2,4-Dimethylphenol	2,949	ND	3788	ug/Kg	78%		32-120	1
1,2,4-Trichlorobenzene	2,691	ND	3788	ug/Kg	71%		33-120	1
4-Chloro-3-methylphenol	3,076	ND	3788	ug/Kg	81%		41-121	1
2,4,5-Trichlorophenol	2,971	ND	3788	ug/Kg	78%		40-120	1
Acenaphthene	2,717	ND	3788	ug/Kg	72%		37-120	1
4-Nitrophenol	2,641	ND	3788	ug/Kg	70%		20-141	1
2,4-Dinitrotoluene	3,201	ND	3788	ug/Kg	85%		33-128	1
Pentachlorophenol	2,134	ND	3788	ug/Kg	56%		28-132	1
Pyrene	2,838	ND	3788	ug/Kg	75%		39-135	1
Chrysene	2,833	ND	3788	ug/Kg	75%		37-135	1
Benzo(b)fluoranthene	2,769	ND	3788	ug/Kg	73%		34-139	1
Surrogates								
2-Fluorophenol	1,442		2020	ug/Kg	71%		29-120	1
Phenol-d6	1,520		2020	ug/Kg	75%		30-120	1
2,4,6-Tribromophenol	1,466		2020	ug/Kg	73%		32-120	1
Nitrobenzene-d5	1,458		2020	ug/Kg	72%		33-120	1
2-Fluorobiphenyl	1,416		2020	ug/Kg	70%		39-120	1
Terphenyl-d14	1,394		2020	ug/Kg	69%		44-125	1

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Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1251428**	**Batch:**	**369607**
Matrix (Source ID):	**Soil (531570-004)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1251428 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phenol	2,685	ND	3731	ug/Kg	72%		37-120	4	49	1
2-Chlorophenol	2,463	ND	3731	ug/Kg	66%		33-120	4	52	1
1,4-Dichlorobenzene	2,543	ND	3731	ug/Kg	68%		32-120	4	50	1
3-,4-Methylphenol	2,725	ND	3731	ug/Kg	73%		37-120	5	54	1
N-Nitroso-di-n-propylamine	2,761	ND	3731	ug/Kg	74%		32-120	4	50	1
2,4-Dimethylphenol	2,749	ND	3731	ug/Kg	74%		32-120	6	50	1
1,2,4-Trichlorobenzene	2,558	ND	3731	ug/Kg	69%		33-120	4	50	1
4-Chloro-3-methylphenol	2,900	ND	3731	ug/Kg	78%		41-121	4	43	1
2,4,5-Trichlorophenol	2,858	ND	3731	ug/Kg	77%		40-120	2	47	1
Acenaphthene	2,540	ND	3731	ug/Kg	68%		37-120	5	48	1
4-Nitrophenol	2,758	ND	3731	ug/Kg	74%		20-141	6	30	1
2,4-Dinitrotoluene	3,116	ND	3731	ug/Kg	84%		33-128	1	50	1
Pentachlorophenol	2,097	ND	3731	ug/Kg	56%		28-132	0	30	1
Pyrene	2,811	ND	3731	ug/Kg	75%		39-135	1	41	1
Chrysene	2,713	ND	3731	ug/Kg	73%		37-135	3	46	1
Benzo(b)fluoranthene	2,661	ND	3731	ug/Kg	71%		34-139	2	47	1
Surrogates										
2-Fluorophenol	1,340		1990	ug/Kg	67%		29-120			1
Phenol-d6	1,420		1990	ug/Kg	71%		30-120			1
2,4,6-Tribromophenol	1,461		1990	ug/Kg	73%		32-120			1
Nitrobenzene-d5	1,372		1990	ug/Kg	69%		33-120			1
2-Fluorobiphenyl	1,288		1990	ug/Kg	65%		39-120			1
Terphenyl-d14	1,381		1990	ug/Kg	69%		44-125			1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1251429**	**Batch:**	**369607**
Matrix:	**Soil**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1251429 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1-Methylnaphthalene	ND		ug/Kg	10	04/24/25	04/24/25
2-Methylnaphthalene	ND		ug/Kg	10	04/24/25	04/24/25
Naphthalene	ND		ug/Kg	10	04/24/25	04/24/25
Acenaphthylene	ND		ug/Kg	10	04/24/25	04/24/25
Acenaphthene	ND		ug/Kg	10	04/24/25	04/24/25
Fluorene	ND		ug/Kg	10	04/24/25	04/24/25
Phenanthrene	ND		ug/Kg	10	04/24/25	04/24/25
Anthracene	ND		ug/Kg	10	04/24/25	04/24/25
Fluoranthene	ND		ug/Kg	10	04/24/25	04/24/25
Pyrene	ND		ug/Kg	10	04/24/25	04/24/25
Benzo(a)anthracene	ND		ug/Kg	10	04/24/25	04/24/25
Chrysene	ND		ug/Kg	10	04/24/25	04/24/25
Benzo(b)fluoranthene	ND		ug/Kg	10	04/24/25	04/24/25
Benzo(k)fluoranthene	ND		ug/Kg	10	04/24/25	04/24/25
Benzo(a)pyrene	ND		ug/Kg	10	04/24/25	04/24/25
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	10	04/24/25	04/24/25
Dibenz(a,h)anthracene	ND		ug/Kg	10	04/24/25	04/24/25
Benzo(g,h,i)perylene	ND		ug/Kg	10	04/24/25	04/24/25
Surrogates				**Limits**		
Nitrobenzene-d5	63%		%REC	27-125	04/24/25	04/24/25
2-Fluorobiphenyl	60%		%REC	30-120	04/24/25	04/24/25
Terphenyl-d14	76%		%REC	33-155	04/24/25	04/24/25

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1251430**	**Batch:**	**369607**
Matrix:	**Soil**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1251430 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1-Methylnaphthalene	141.2	202.0	ug/Kg	70%		28-130
2-Methylnaphthalene	145.0	202.0	ug/Kg	72%		33-130
Naphthalene	140.6	202.0	ug/Kg	70%		25-130
Acenaphthylene	145.1	202.0	ug/Kg	72%		28-130
Acenaphthene	137.8	202.0	ug/Kg	68%		32-130
Fluorene	140.0	202.0	ug/Kg	69%		35-130
Phenanthrene	139.3	202.0	ug/Kg	69%		35-132
Anthracene	145.4	202.0	ug/Kg	72%		34-136
Fluoranthene	145.4	202.0	ug/Kg	72%		34-139
Pyrene	143.9	202.0	ug/Kg	71%		35-134
Benzo(a)anthracene	147.3	202.0	ug/Kg	73%		30-132
Chrysene	138.2	202.0	ug/Kg	68%		29-130
Benzo(b)fluoranthene	141.0	202.0	ug/Kg	70%		32-137
Benzo(k)fluoranthene	133.6	202.0	ug/Kg	66%		32-130
Benzo(a)pyrene	131.3	202.0	ug/Kg	65%		10-138
Indeno(1,2,3-cd)pyrene	127.1	202.0	ug/Kg	63%		34-132
Dibenz(a,h)anthracene	126.4	202.0	ug/Kg	63%		32-130
Benzo(g,h,i)perylene	122.8	202.0	ug/Kg	61%		27-130
Surrogates						
Nitrobenzene-d5	128.6	202.0	ug/Kg	64%		27-125
2-Fluorobiphenyl	124.1	202.0	ug/Kg	61%		30-120
Terphenyl-d14	157.3	202.0	ug/Kg	78%		33-155

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1251431**	**Batch:**	**369607**
Matrix (Source ID):	**Soil (531606-001)**	**Method:**	**EPA 8270C-SIM**	**Prep Method:**	**EPA 3546**

QC1251431 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1-Methylnaphthalene	136.2	ND	200.0	ug/Kg	68%		25-130	1
2-Methylnaphthalene	140.1	ND	200.0	ug/Kg	70%		32-133	1
Naphthalene	131.9	ND	200.0	ug/Kg	66%		33-130	1
Acenaphthylene	143.2	ND	200.0	ug/Kg	72%		14-157	1
Acenaphthene	135.1	ND	200.0	ug/Kg	68%		28-134	1
Fluorene	140.0	ND	200.0	ug/Kg	70%		27-140	1
Phenanthrene	148.5	5.034	200.0	ug/Kg	72%		29-147	1
Anthracene	144.3	ND	200.0	ug/Kg	72%		24-156	1
Fluoranthene	153.7	8.911	200.0	ug/Kg	72%		28-160	1
Pyrene	152.3	9.941	200.0	ug/Kg	71%		26-153	1
Benzo(a)anthracene	152.2	4.084	200.0	ug/Kg	74%		26-174	1
Chrysene	144.9	7.778	200.0	ug/Kg	69%		40-139	1
Benzo(b)fluoranthene	137.2	7.924	200.0	ug/Kg	65%		36-164	1
Benzo(k)fluoranthene	128.6	2.116	200.0	ug/Kg	63%		36-161	1
Benzo(a)pyrene	125.1	4.121	200.0	ug/Kg	60%		18-173	1
Indeno(1,2,3-cd)pyrene	128.2	4.487	200.0	ug/Kg	62%		26-154	1
Dibenz(a,h)anthracene	126.9	ND	200.0	ug/Kg	63%		38-132	1
Benzo(g,h,i)perylene	127.7	5.516	200.0	ug/Kg	61%		36-130	1
Surrogates								
Nitrobenzene-d5	121.1		200.0	ug/Kg	61%		27-125	1
2-Fluorobiphenyl	120.8		200.0	ug/Kg	60%		30-120	1
Terphenyl-d14	148.3		200.0	ug/Kg	74%		33-155	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1251432	Batch:	369607
Matrix (Source ID):	Soil (531606-001)	Method:	EPA 8270C-SIM	Prep Method:	EPA 3546

QC1251432 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1-Methylnaphthalene	132.0	ND	200.0	ug/Kg	66%		25-130	3	35	1
2-Methylnaphthalene	135.9	ND	200.0	ug/Kg	68%		32-133	3	35	1
Naphthalene	128.4	ND	200.0	ug/Kg	64%		33-130	3	35	1
Acenaphthylene	139.5	ND	200.0	ug/Kg	70%		14-157	3	35	1
Acenaphthene	131.9	ND	200.0	ug/Kg	66%		28-134	2	35	1
Fluorene	136.5	ND	200.0	ug/Kg	68%		27-140	2	35	1
Phenanthrene	139.8	5.034	200.0	ug/Kg	67%		29-147	6	35	1
Anthracene	142.3	ND	200.0	ug/Kg	71%		24-156	1	35	1
Fluoranthene	145.2	8.911	200.0	ug/Kg	68%		28-160	6	35	1
Pyrene	144.3	9.941	200.0	ug/Kg	67%		26-153	5	35	1
Benzo(a)anthracene	146.8	4.084	200.0	ug/Kg	71%		26-174	4	35	1
Chrysene	136.6	7.778	200.0	ug/Kg	64%		40-139	6	35	1
Benzo(b)fluoranthene	130.3	7.924	200.0	ug/Kg	61%		36-164	5	35	1
Benzo(k)fluoranthene	122.2	2.116	200.0	ug/Kg	60%		36-161	5	35	1
Benzo(a)pyrene	120.2	4.121	200.0	ug/Kg	58%		18-173	4	35	1
Indeno(1,2,3-cd)pyrene	127.1	4.487	200.0	ug/Kg	61%		26-154	1	35	1
Dibenz(a,h)anthracene	124.3	ND	200.0	ug/Kg	62%		38-132	2	35	1
Benzo(g,h,i)perylene	124.3	5.516	200.0	ug/Kg	59%		36-130	3	35	1
Surrogates										
Nitrobenzene-d5	117.4		200.0	ug/Kg	59%		27-125			1
2-Fluorobiphenyl	115.1		200.0	ug/Kg	58%		30-120			1
Terphenyl-d14	143.7		200.0	ug/Kg	72%		33-155			1

Type:	Sample Duplicate	Lab ID:	QC1251644	Batch:	369666
Matrix (Source ID):	Miscell. (531547-001)	Method:	EPA 9045C		

QC1251644 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
pH	9.440	9.480	SU		0	20	1
Temperature	22.40	22.30	deg C		0	20	1

Type:	Sample Duplicate	Lab ID:	QC1252603	Batch:	369930
Matrix (Source ID):	Soil (531606-001)	Method:	SM2510B	Prep Method:	METHOD

QC1252603 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Specific Conductance	547.9	558.8	umhos/cm		2	20	1

#	CCV drift outside limits; average CCV drift within limits per method requirements
*	Value is outside QC limits
E	Response exceeds instrument's linear range
J	Estimated value
ND	Not Detected
NM	Not Meaningful

Laboratory Job Number 531606

Subcontracted Products

McCampbell Analytical, Inc.

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2504K64

Report Created for: Enthalpy Analytical

931 West Barkley Avenue
Orange, CA 92868

Project Contact: Richard Villafania
Project P.O.: 079649
Project: EO-531606

Project Location:
Project Received: 04/25/2025

Analytical Report reviewed & approved for release on 05/02/2025 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current regulatory standards, where applicable, unless otherwise stated in a case narrative.

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Enthalpy Analytical **WorkOrder:** 2504K64

Project: EO-531606

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB IS/SS % Rec	% Recovery of Internal Standard or Surrogate in Method Blank, if applicable
MB SS % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: Enthalpy Analytical **WorkOrder:** 2504K64

Project: EO-531606

SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Enthalpy Analytical	**WorkOrder:**	2504K64
Date Received:	04/25/2025 9:51	**Extraction Method:**	SW8151 A
Date Prepared:	04/29/2025	**Analytical Method:**	SW8151 A
Project:	EO-531606	**Unit:**	mg/kg

Chlorinated Herbicides by GC-ECD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-1-NORTH OF STOCKPILE	2504K64-001A	Soil	04/23/2025 08:45	GC15A 04292518.D	316313

Analytes	Result	RL	DF	Date Analyzed
Acifluorfen	ND	0.010	1	04/29/2025 19:56
Bentazon	ND	0.010	1	04/29/2025 19:56
Chloramben	ND	0.010	1	04/29/2025 19:56
2,4-D (Dichlorophenoxyacetic acid)	ND	0.010	1	04/29/2025 19:56
2,4-DB	ND	0.010	1	04/29/2025 19:56
Dalapon	ND	0.010	1	04/29/2025 19:56
DCPA (mono & diacid)	ND	0.010	1	04/29/2025 19:56
Dicamba	ND	0.010	1	04/29/2025 19:56
3,5-Dichlorobenzoic Acid	ND	0.010	1	04/29/2025 19:56
Dichloroprop	ND	0.010	1	04/29/2025 19:56
Dinoseb (DNBP)	ND	0.010	1	04/29/2025 19:56
MCPA	ND	1.0	1	04/29/2025 19:56
MCPP	ND	1.0	1	04/29/2025 19:56
4-Nitrophenol	ND	0.010	1	04/29/2025 19:56
Pentachlorophenol (PCP)	ND	0.010	1	04/29/2025 19:56
Picloram	ND	0.010	1	04/29/2025 19:56
2,4,5-T (Trichlorophenoxy acetic acid)	ND	0.010	1	04/29/2025 19:56
2,4,5-TP (Silvex)	ND	0.010	1	04/29/2025 19:56

Surrogates	REC (%)	Limits	
DCAA	123	60-140	04/29/2025 19:56

Analyst(s): DP

(Cont.)

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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	Enthalpy Analytical	**WorkOrder:**	2504K64
Date Received:	04/25/2025 9:51	**Extraction Method:**	SW8151 A
Date Prepared:	04/29/2025	**Analytical Method:**	SW8151 A
Project:	EO-531606	**Unit:**	mg/kg

Chlorinated Herbicides by GC-ECD

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
S-2-SOUTH OF STOCKPILE	2504K64-002A	Soil	04/23/2025 08:46	GC15A 04292519.D	316313

Analytes	Result	RL	DF	Date Analyzed
Acifluorfen	ND	0.010	1	04/29/2025 20:21
Bentazon	ND	0.010	1	04/29/2025 20:21
Chloramben	ND	0.010	1	04/29/2025 20:21
2,4-D (Dichlorophenoxyacetic acid)	ND	0.010	1	04/29/2025 20:21
2,4-DB	ND	0.010	1	04/29/2025 20:21
Dalapon	ND	0.010	1	04/29/2025 20:21
DCPA (mono & diacid)	ND	0.010	1	04/29/2025 20:21
Dicamba	ND	0.010	1	04/29/2025 20:21
3,5-Dichlorobenzoic Acid	ND	0.010	1	04/29/2025 20:21
Dichloroprop	ND	0.010	1	04/29/2025 20:21
Dinoseb (DNBP)	ND	0.010	1	04/29/2025 20:21
MCPA	ND	1.0	1	04/29/2025 20:21
MCPP	ND	1.0	1	04/29/2025 20:21
4-Nitrophenol	ND	0.010	1	04/29/2025 20:21
Pentachlorophenol (PCP)	ND	0.010	1	04/29/2025 20:21
Picloram	ND	0.010	1	04/29/2025 20:21
2,4,5-T (Trichlorophenoxy acetic acid)	ND	0.010	1	04/29/2025 20:21
2,4,5-TP (Silvex)	ND	0.010	1	04/29/2025 20:21

Surrogates	REC (%)	Limits	
DCAA	122	60-140	04/29/2025 20:21

Analyst(s): DP

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Quality Control Report

Client:	Enthalpy Analytical	**WorkOrder:**	2504K64
Date Prepared:	04/29/2025	**BatchID:**	316313
Date Analyzed:	04/29/2025	**Extraction Method:**	SW8151 A
Instrument:	GC15A	**Analytical Method:**	SW8151 A
Matrix:	Soil	**Unit:**	mg/kg
Project:	EO-531606	**Sample ID:**	MB/LCS/LCSD-316313 2504K64-002AMS/MSD

QC Summary Report for SW8151 A

Analyte	MB Result	MDL	RL	SPK Val	MB IS/SS %REC	MB IS/SS Limits
Acifluorfen	ND	0.0059	0.010	-	-	-
Bentazon	ND	0.0033	0.010	-	-	-
Chloramben	ND	0.0035	0.010	-	-	-
2,4-D (Dichlorophenoxyacetic acid)	ND	0.0028	0.010	-	-	-
2,4-DB	ND	0.0051	0.010	-	-	-
Dalapon	ND	0.0066	0.010	-	-	-
DCPA (mono & diacid)	ND	0.0044	0.010	-	-	-
Dicamba	ND	0.0028	0.010	-	-	-
3,5-Dichlorobenzoic Acid	ND	0.0030	0.010	-	-	-
Dichloroprop	ND	0.0028	0.010	-	-	-
Dinoseb (DNBP)	ND	0.0033	0.010	-	-	-
MCPA	ND	0.36	1.0	-	-	-
MCPP	ND	0.32	1.0	-	-	-
4-Nitrophenol	ND	0.0072	0.010	-	-	-
Pentachlorophenol (PCP)	ND	0.0048	0.010	-	-	-
Picloram	ND	0.0038	0.010	-	-	-
2,4,5-T (Trichlorophenoxy acetic acid)	ND	0.0046	0.010	-	-	-
2,4,5-TP (Silvex)	ND	0.0029	0.010	-	-	-
Surrogate Recovery						
DCAA	0.12			0.1	116	63-129

(Cont.)

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Enthalpy Analytical	**WorkOrder:**	2504K64
Date Prepared:	04/29/2025	**BatchID:**	316313
Date Analyzed:	04/29/2025	**Extraction Method:**	SW8151 A
Instrument:	GC15A	**Analytical Method:**	SW8151 A
Matrix:	Soil	**Unit:**	mg/kg
Project:	EO-531606	**Sample ID:**	MB/LCS/LCSD-316313 2504K64-002AMS/MSD

QC Summary Report for SW8151 A

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acifluorfen	0.10	0.11	0.10	103	114	60-140	9.91	30
Bentazon	0.11	0.10	0.10	114	104	60-140	9.45	30
Chloramben	0.11	0.12	0.10	114	116	60-140	1.94	30
2,4-D (Dichlorophenoxyacetic acid)	0.10	0.11	0.10	104	105	67-147	1.59	30
2,4-DB	0.098	0.11	0.10	98	107	61-152	8.49	30
Dalapon	0.11	0.12	0.10	112	115	54-153	2.72	30
DCPA (mono & diacid)	0.093	0.10	0.10	93	100	60-140	6.47	30
Dicamba	0.099	0.10	0.10	99	105	60-146	5.11	30
3,5-Dichlorobenzoic Acid	0.10	0.11	0.10	100	107	60-140	5.99	30
Dichloroprop	0.098	0.10	0.10	98	101	60-140	3.40	30
Dinoseb (DNBP)	0.099	0.10	0.10	99	103	60-140	3.60	30
MCPA	9.7	11	10	97	105	60-140	7.64	30
MCPP	9.4	10	10	94	102	60-140	8.53	30
4-Nitrophenol	0.11	0.11	0.10	112	114	60-140	2.27	30
Pentachlorophenol (PCP)	0.10	0.11	0.10	101	105	60-140	4.00	30
Picloram	0.10	0.11	0.10	103	111	60-140	7.81	30
2,4,5-T (Trichlorophenoxy acetic acid)	0.10	0.11	0.10	104	108	60-140	4.32	30
2,4,5-TP (Silvex)	0.10	0.11	0.10	101	105	63-145	4.06	30
Surrogate Recovery								
DCAA	0.12	0.12	0.10	117	120	63-129	2.69	30

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acifluorfen	1	0.11	0.12	0.10	ND	110	121	60-140	8.87	30
Bentazon	1	0.11	0.11	0.10	ND	115	105	60-140	8.69	30
Chloramben	1	0.12	0.12	0.10	ND	121	122	60-140	0.946	30
2,4-D (Dichlorophenoxyacetic acid)	1	0.11	0.11	0.10	ND	108	113	68-142	4.47	30
2,4-DB	1	0.10	0.11	0.10	ND	103	108	60-140	4.93	30
Dalapon	1	0.11	0.12	0.10	ND	115	118	59-136	3.29	30
DCPA (mono & diacid)	1	0.10	0.11	0.10	ND	104	108	60-140	3.80	30
Dicamba	1	0.10	0.11	0.10	ND	103	111	57-139	6.76	30
3,5-Dichlorobenzoic Acid	1	0.10	0.11	0.10	ND	101	112	60-140	10.9	30
Dichloroprop	1	0.10	0.11	0.10	ND	102	108	60-140	5.18	30
Dinoseb (DNBP)	1	0.10	0.11	0.10	ND	105	108	60-140	3.37	30
MCPA	1	11	11	10	ND	110	109	60-140	1.04	30
MCPP	1	11	11	10	ND	109	110	60-140	1.05	30

(Cont.)

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Quality Control Report

Client:	Enthalpy Analytical	**WorkOrder:**	2504K64
Date Prepared:	04/29/2025	**BatchID:**	316313
Date Analyzed:	04/29/2025	**Extraction Method:**	SW8151 A
Instrument:	GC15A	**Analytical Method:**	SW8151 A
Matrix:	Soil	**Unit:**	mg/kg
Project:	EO-531606	**Sample ID:**	MB/LCS/LCSD-316313 2504K64-002AMS/MSD

QC Summary Report for SW8151 A

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
4-Nitrophenol	1	0.12	0.11	0.10	ND	123	106	60-140	14.2	30
Pentachlorophenol (PCP)	1	0.099	0.10	0.10	ND	99	103	60-140	4.67	30
Picloram	1	0.11	0.12	0.10	ND	110	118	60-140	7.03	30
2,4,5-T (Trichlorophenoxy acetic acid)	1	0.11	0.11	0.10	ND	108	113	60-140	4.55	30
2,4,5-TP (Silvex)	1	0.11	0.11	0.10	ND	105	109	61-139	3.34	30
Surrogate Recovery										
DCAA	1	0.12	0.13	0.10		115	128	60-140	10.5	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2504K64 **ClientCode: ENO** **QuoteID: 252619**

☐ WaterTrax ☐ CLIP ☐ EDF ☑ EQuIS ☑ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☑ Detection Summary ☑ **Excel** [A1_Standard _QC]

Report to:
Richard Villafania
Enthalpy Analytical
931 West Barkley Avenue
Orange, CA 92868
714-771-6900 FAX:

Email: Richard.villafania@enthalpy.com; incoming
cc/3rd Party:
PO: 079649
Project: EO-531606

Bill to:
Accounts Payable/Enthalpy SoCal
Montrose Environmental Group
PO Box 842165
Boston, MA 02284-2165
003EL_ap@montrose-env.com

Requested TAT: **5 days;**

Date Received: **04/25/2025**
Date Logged: **04/25/2025**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2504K64-001	S-1-NORTH OF STOCKPILE	Soil	4/23/2025 08:45	☐	A	A										
2504K64-002	S-2-SOUTH OF STOCKPILE	Soil	4/23/2025 08:46	☐	A	A										

Test Legend:

1	8151_S	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Prepared by:

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: ENTHALPY ANALYTICAL
Client Contact: Richard Villafania
Contact's Email: Richard.villafania@enthalpy.com; incomingreports@enthalpy.com

Project: EO-531606
Comments:

Work Order: 2504K64
QC Level: LEVEL 2
Date Logged: 4/25/2025

☐ WaterTrax ☐ CLIP ☐ EDF ☑ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	S-1-NORTH OF STOCKPILE	Soil	SW8151A (Chlorinated Herbicides)	1	2OZ GJ, Unpres	☐	☐	☐	4/23/2025 8:45	5 days	5/2/2025		☐	☐
002A	S-2-SOUTH OF STOCKPILE	Soil	SW8151A (Chlorinated Herbicides)	1	2OZ GJ, Unpres	☐	☐	☐	4/23/2025 8:46	5 days	5/2/2025		☐	☐

NOTES: *** STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

2504K64

ENTHALPY
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

Subcontract Laboratory:
McCampbell Analytical, Inc.
1534 Willow Pass Rd.
Pittsburg, CA 94565
ATTN: Quote ID: 252619
PO #: PO-079649

Enthalpy Order: EO-531606
PM: Richard Villafania
Email: richard.villafania@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-6900

Results Due: Standard TAT
Report Level: II
Report To: RL
EDDs: Standard Excel EDD

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
S-1 - NORTH OF STOCKPILE	23-APR-2025 08:45	531606-001	1	Soil	EPA 8151A Chlorinated Herbicides	
S-2 - SOUTH OF STOCKPILE	23-APR-2025 08:46	531606-002	1	Soil	EPA 8151A Chlorinated Herbicides	

Notes:	Relinquished By:	Received By:
	J. Quintana 1610	
	Date: EA-ORA 4/24/25	Date: 4/25/25 0951
	Date:	Date:
	Date:	Date:

1 of 1
GSO: 562932044

O. SCIMEA
LP33

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name: Enthalpy Analytical
Project: EO-531606

Date and Time Received: 4/25/2025 09:51
Date Logged: 4/25/2025
Received by: Agustina Venegas
Logged by:

WorkOrder №: 2504K64 Matrix: Soil
Carrier: Golden State Overnight

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☐	No	☑		
COC agrees with Quote?	Yes	☑	No	☐	NA	☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 0.8°C				NA	☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2)?	Yes	☐	No	☐	NA	☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA	☑

Comments:

Laboratory Job Number 531606

Subcontracted Products

Enthalpy - El Dorado Hills

April 30, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2504214

Mr. Richard Villafania
Enthalpy Analytical
931 W. Barkley Avenue
Orange, CA 92868

Dear Mr. Villafania,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on April 24, 2025 under your Project Name 'EO-531606'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at mark.rein@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,



Mark Rein
Project Manager

Enthalpy Analytical -EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical -EDH .

Enthalpy Analytical - EDH Work Order No. 2504214
Case Narrative

Sample Condition on Receipt:

Two soil samples were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements.

Analytical Notes:

EPA Method 8290A

The samples were extracted and analyzed for tetra-through-octa chlorinated dioxins and furans by EPA Method 8290A using a ZB-DIOXIN GC column.

Holding Times

The method holding time criteria were met for these samples.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank and Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected above the sample quantitation limits in the Method Blank. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are flagged with an "H" qualifier. The responses of the internal standards with low recoveries were greater than 10:1 signal-to-noise, which is the limit generally considered acceptable for accurate quantitation by isotope dilution analysis.

TABLE OF CONTENTS

Case Narrative..... 1

Table of Contents..... 3

Sample Inventory..... 4

Analytical Results..... 5

Qualifiers..... 10

Certifications..... 11

Sample Receipt..... 12

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2504214-01	S-1 - NORTH OF STOCKPILE	23-Apr-25 08:45	24-Apr-25 09:39	Clear Glass Jar, 120mL
2504214-02	S-2 - SOUTH OF STOCKPILE	23-Apr-25 08:46	24-Apr-25 09:39	Clear Glass Jar, 120mL

ANALYTICAL RESULTS

Sample ID: Method Blank

EPA Method 8290A

Client Data

Name: Enthalpy Analytical
Project: EO-531606
Matrix: Solid

Laboratory Data

Lab Sample: B25D304-BLK1
QC Batch: B25D304
Sample Size: 10.0 g
Date Extracted: 25-Apr-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.500		28-Apr-25 20:07	1
1,2,3,7,8-PeCDD	ND	2.50		28-Apr-25 20:07	1
1,2,3,4,7,8-HxCDD	ND	2.50		28-Apr-25 20:07	1
1,2,3,6,7,8-HxCDD	ND	2.50		28-Apr-25 20:07	1
1,2,3,7,8,9-HxCDD	ND	2.50		28-Apr-25 20:07	1
1,2,3,4,6,7,8-HpCDD	ND	2.50		28-Apr-25 20:07	1
OCDD	ND	5.00		28-Apr-25 20:07	1
2,3,7,8-TCDF	ND	0.500		28-Apr-25 20:07	1
1,2,3,7,8-PeCDF	ND	2.50		28-Apr-25 20:07	1
2,3,4,7,8-PeCDF	ND	2.50		28-Apr-25 20:07	1
1,2,3,4,7,8-HxCDF	ND	2.50		28-Apr-25 20:07	1
1,2,3,6,7,8-HxCDF	ND	2.50		28-Apr-25 20:07	1
2,3,4,6,7,8-HxCDF	ND	2.50		28-Apr-25 20:07	1
1,2,3,7,8,9-HxCDF	ND	2.50		28-Apr-25 20:07	1
1,2,3,4,6,7,8-HpCDF	ND	2.50		28-Apr-25 20:07	1
1,2,3,4,7,8,9-HpCDF	ND	2.50		28-Apr-25 20:07	1
OCDF	ND	5.00		28-Apr-25 20:07	1
Toxic Equivalent					
TEQMinWHO2005Dioxin	0.00				
Totals					
Total TCDD	ND	0.500			
Total PeCDD	ND	2.50			
Total HxCDD	ND	2.50			
Total HpCDD	ND	2.50			
Total TCDF	ND	0.500			
Total PeCDF	ND	2.50			
Total HxCDF	ND	2.50			
Total HpCDF	ND	2.50			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	78.2	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,7,8-PeCDD	IS	76.9	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,4,7,8-HxCDD	IS	68.3	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,6,7,8-HxCDD	IS	72.0	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,7,8,9-HxCDD	IS	70.4	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,4,6,7,8-HpCDD	IS	64.1	40 - 135		28-Apr-25 20:07	1
13C-OCDD	IS	57.0	40 - 135		28-Apr-25 20:07	1
13C-2,3,7,8-TCDF	IS	80.7	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,7,8-PeCDF	IS	77.5	40 - 135		28-Apr-25 20:07	1
13C-2,3,4,7,8-PeCDF	IS	80.4	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,4,7,8-HxCDF	IS	73.0	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,6,7,8-HxCDF	IS	75.4	40 - 135		28-Apr-25 20:07	1
13C-2,3,4,6,7,8-HxCDF	IS	74.2	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,7,8,9-HxCDF	IS	71.9	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,4,6,7,8-HpCDF	IS	70.7	40 - 135		28-Apr-25 20:07	1
13C-1,2,3,4,7,8,9-HpCDF	IS	73.0	40 - 135		28-Apr-25 20:07	1
13C-OCDF	IS	63.3	40 - 135		28-Apr-25 20:07	1
37Cl-2,3,7,8-TCDD	CRS	96.4	40 - 135		28-Apr-25 20:07	1

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to RL.

Sample ID: OPR **EPA Method 8290A**

Client Data
Name: Enthalpy Analytical
Project: EO-531606
Matrix: Solid

Laboratory Data
Lab Sample: B25D304-BS1
QC Batch: B25D304 Date Extracted: 25-Apr-25 15:21
Sample Size: 10.0 g Column: ZB-DIOXIN

Analyte	Amt Found (pg/g)	Spike Amt	% Recovery	Limits	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	20.3	20.0	102	70-130		28-Apr-25 16:21	1
1,2,3,7,8-PeCDD	105	100	105	70-130		28-Apr-25 16:21	1
1,2,3,4,7,8-HxCDD	107	100	107	70-130		28-Apr-25 16:21	1
1,2,3,6,7,8-HxCDD	109	100	109	70-130		28-Apr-25 16:21	1
1,2,3,7,8,9-HxCDD	109	100	109	70-130		28-Apr-25 16:21	1
1,2,3,4,6,7,8-HpCDD	105	100	105	70-130		28-Apr-25 16:21	1
OCDD	217	200	109	70-130		28-Apr-25 16:21	1
2,3,7,8-TCDF	22.4	20.0	112	70-130		28-Apr-25 16:21	1
1,2,3,7,8-PeCDF	111	100	111	70-130		28-Apr-25 16:21	1
2,3,4,7,8-PeCDF	111	100	111	70-130		28-Apr-25 16:21	1
1,2,3,4,7,8-HxCDF	110	100	110	70-130		28-Apr-25 16:21	1
1,2,3,6,7,8-HxCDF	106	100	106	70-130		28-Apr-25 16:21	1
2,3,4,6,7,8-HxCDF	109	100	109	70-130		28-Apr-25 16:21	1
1,2,3,7,8,9-HxCDF	110	100	110	70-130		28-Apr-25 16:21	1
1,2,3,4,6,7,8-HpCDF	107	100	107	70-130		28-Apr-25 16:21	1
1,2,3,4,7,8,9-HpCDF	108	100	108	70-130		28-Apr-25 16:21	1
OCDF	220	200	110	70-130		28-Apr-25 16:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	87.1	40-135		28-Apr-25 16:21	1
13C-1,2,3,7,8-PeCDD	IS	82.4	40-135		28-Apr-25 16:21	1
13C-1,2,3,4,7,8-HxCDD	IS	73.5	40-135		28-Apr-25 16:21	1
13C-1,2,3,6,7,8-HxCDD	IS	78.4	40-135		28-Apr-25 16:21	1
13C-1,2,3,7,8,9-HxCDD	IS	75.9	40-135		28-Apr-25 16:21	1
13C-1,2,3,4,6,7,8-HpCDD	IS	68.2	40-135		28-Apr-25 16:21	1
13C-OCDD	IS	62.6	40-135		28-Apr-25 16:21	1
13C-2,3,7,8-TCDF	IS	87.9	40-135		28-Apr-25 16:21	1
13C-1,2,3,7,8-PeCDF	IS	85.8	40-135		28-Apr-25 16:21	1
13C-2,3,4,7,8-PeCDF	IS	86.1	40-135		28-Apr-25 16:21	1
13C-1,2,3,4,7,8-HxCDF	IS	78.3	40-135		28-Apr-25 16:21	1
13C-1,2,3,6,7,8-HxCDF	IS	81.5	40-135		28-Apr-25 16:21	1
13C-2,3,4,6,7,8-HxCDF	IS	79.2	40-135		28-Apr-25 16:21	1
13C-1,2,3,7,8,9-HxCDF	IS	75.6	40-135		28-Apr-25 16:21	1
13C-1,2,3,4,6,7,8-HpCDF	IS	79.2	40-135		28-Apr-25 16:21	1
13C-1,2,3,4,7,8,9-HpCDF	IS	76.7	40-135		28-Apr-25 16:21	1
13C-OCDF	IS	70.7	40-135		28-Apr-25 16:21	1
37Cl-2,3,7,8-TCDD	CRS	104	40-135		28-Apr-25 16:21	1

Sample ID: S-1 - NORTH OF STOCKPILE

EPA Method 8290A

Client Data

Name: Enthalpy Analytical
Project: EO-531606
Matrix: Soil
Date Collected: 23-Apr-25 08:45

Laboratory Data

Lab Sample: 2504214-01
QC Batch: B25D304
Sample Size: 10.2 g
% Solids: 97.8
Date Received: 24-Apr-25 10:43
Date Extracted: 25-Apr-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.500		29-Apr-25 05:19	1
1,2,3,7,8-PeCDD	ND	2.50		29-Apr-25 05:19	1
1,2,3,4,7,8-HxCDD	ND	2.50		29-Apr-25 05:19	1
1,2,3,6,7,8-HxCDD	ND	2.50		29-Apr-25 05:19	1
1,2,3,7,8,9-HxCDD	ND	2.50		29-Apr-25 05:19	1
1,2,3,4,6,7,8-HpCDD	2.92	2.50		29-Apr-25 05:19	1
OCDD	32.1	5.00		29-Apr-25 05:19	1
2,3,7,8-TCDF	ND	0.500		29-Apr-25 05:19	1
1,2,3,7,8-PeCDF	ND	2.50		29-Apr-25 05:19	1
2,3,4,7,8-PeCDF	ND	2.50		29-Apr-25 05:19	1
1,2,3,4,7,8-HxCDF	ND	2.50		29-Apr-25 05:19	1
1,2,3,6,7,8-HxCDF	ND	2.50		29-Apr-25 05:19	1
2,3,4,6,7,8-HxCDF	ND	2.50		29-Apr-25 05:19	1
1,2,3,7,8,9-HxCDF	ND	2.50		29-Apr-25 05:19	1
1,2,3,4,6,7,8-HpCDF	ND	2.50		29-Apr-25 05:19	1
1,2,3,4,7,8,9-HpCDF	ND	2.50		29-Apr-25 05:19	1
OCDF	ND	5.00		29-Apr-25 05:19	1
Toxic Equivalent					
TEQMinWHO2005Dioxin	0.0388				
Totals					
Total TCDD	ND	0.500			
Total PeCDD	ND	2.50			
Total HxCDD	ND	2.50			
Total HpCDD	6.82	2.50			
Total TCDF	ND	0.500			
Total PeCDF	ND	2.50			
Total HxCDF	ND	2.50			
Total HpCDF	ND	2.50			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	90.7	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,7,8-PeCDD	IS	78.7	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,4,7,8-HxCDD	IS	67.8	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,6,7,8-HxCDD	IS	71.3	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,7,8,9-HxCDD	IS	63.6	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,4,6,7,8-HpCDD	IS	51.4	40 - 135		29-Apr-25 05:19	1
13C-OCDD	IS	40.5	40 - 135		29-Apr-25 05:19	1
13C-2,3,7,8-TCDF	IS	92.8	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,7,8-PeCDF	IS	86.6	40 - 135		29-Apr-25 05:19	1
13C-2,3,4,7,8-PeCDF	IS	89.1	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,4,7,8-HxCDF	IS	71.7	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,6,7,8-HxCDF	IS	72.7	40 - 135		29-Apr-25 05:19	1
13C-2,3,4,6,7,8-HxCDF	IS	69.8	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,7,8,9-HxCDF	IS	72.2	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,4,6,7,8-HpCDF	IS	54.1	40 - 135		29-Apr-25 05:19	1
13C-1,2,3,4,7,8,9-HpCDF	IS	67.0	40 - 135		29-Apr-25 05:19	1
13C-OCDF	IS	48.4	40 - 135		29-Apr-25 05:19	1
37Cl-2,3,7,8-TCDD	CRS	102	40 - 135		29-Apr-25 05:19	1

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to RL.

Sample ID: S-2 - SOUTH OF STOCKPILE

EPA Method 8290A

Client Data

Name: Enthalpy Analytical
Project: EO-531606
Matrix: Soil
Date Collected: 23-Apr-25 08:46

Laboratory Data

Lab Sample: 2504214-02
QC Batch: B25D304
Sample Size: 10.3 g
% Solids: 97.8
Date Received: 24-Apr-25 10:43
Date Extracted: 25-Apr-25
Column: ZB-DIOXIN

Analyte	Conc. (pg/g)	RL	Qualifiers	Analyzed	Dilution
2,3,7,8-TCDD	ND	0.499		29-Apr-25 06:04	1
1,2,3,7,8-PeCDD	ND	2.49		29-Apr-25 06:04	1
1,2,3,4,7,8-HxCDD	ND	2.49		29-Apr-25 06:04	1
1,2,3,6,7,8-HxCDD	ND	2.49		29-Apr-25 06:04	1
1,2,3,7,8,9-HxCDD	ND	2.49		29-Apr-25 06:04	1
1,2,3,4,6,7,8-HpCDD	ND	2.49		29-Apr-25 06:04	1
OCDD	9.72	4.99		29-Apr-25 06:04	1
2,3,7,8-TCDF	ND	0.499		29-Apr-25 06:04	1
1,2,3,7,8-PeCDF	ND	2.49		29-Apr-25 06:04	1
2,3,4,7,8-PeCDF	ND	2.49		29-Apr-25 06:04	1
1,2,3,4,7,8-HxCDF	ND	2.49		29-Apr-25 06:04	1
1,2,3,6,7,8-HxCDF	ND	2.49		29-Apr-25 06:04	1
2,3,4,6,7,8-HxCDF	ND	2.49		29-Apr-25 06:04	1
1,2,3,7,8,9-HxCDF	ND	2.49		29-Apr-25 06:04	1
1,2,3,4,6,7,8-HpCDF	ND	2.49		29-Apr-25 06:04	1
1,2,3,4,7,8,9-HpCDF	ND	2.49		29-Apr-25 06:04	1
OCDF	ND	4.99		29-Apr-25 06:04	1
Toxic Equivalent					
TEQMinWHO2005Dioxin	0.00292				
Totals					
Total TCDD	ND	0.499			
Total PeCDD	ND	2.49			
Total HxCDD	ND	2.49			
Total HpCDD	ND	2.49			
Total TCDF	ND	0.499			
Total PeCDF	ND	2.49			
Total HxCDF	ND	2.49			
Total HpCDF	ND	2.49			

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Analyzed	Dilution
13C-2,3,7,8-TCDD	IS	73.1	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,7,8-PeCDD	IS	60.8	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,4,7,8-HxCDD	IS	57.2	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,6,7,8-HxCDD	IS	57.1	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,7,8,9-HxCDD	IS	56.7	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,4,6,7,8-HpCDD	IS	39.9	40 - 135	H	29-Apr-25 06:04	1
13C-OCDD	IS	29.3	40 - 135	H	29-Apr-25 06:04	1
13C-2,3,7,8-TCDF	IS	74.7	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,7,8-PeCDF	IS	65.8	40 - 135		29-Apr-25 06:04	1
13C-2,3,4,7,8-PeCDF	IS	68.0	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,4,7,8-HxCDF	IS	54.6	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,6,7,8-HxCDF	IS	52.6	40 - 135		29-Apr-25 06:04	1
13C-2,3,4,6,7,8-HxCDF	IS	57.4	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,7,8,9-HxCDF	IS	66.0	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,4,6,7,8-HpCDF	IS	42.0	40 - 135		29-Apr-25 06:04	1
13C-1,2,3,4,7,8,9-HpCDF	IS	54.4	40 - 135		29-Apr-25 06:04	1
13C-OCDF	IS	34.3	40 - 135	H	29-Apr-25 06:04	1
37Cl-2,3,7,8-TCDD	CRS	90.3	40 - 135		29-Apr-25 06:04	1

RL - Reporting limit

The results are reported in dry weight.
The sample size is reported in wet weight.
Results reported to RL.

DATA QUALIFIERS & ABBREVIATIONS

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
H	Recovery and/or RPD was outside laboratory acceptance limits
I	Chemical Interference
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	The ion transition ratio is outside of the acceptance criteria.
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses ½ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.

ENTHALPY

931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

Subcontract Laboratory:
Enthalpy - El Dorado Hills
1104 Windfield Way
El Dorado Hills, CA 95762
ATTN: Mark Rein
PO #: Required, to be sent via email

2504214

Results Due: Standard TAT
Report Level: II
Report To: RL
EDDs: BLDR:Enthalpy (the normal EDD you send to Orange)

0.9 °C

Enthalpy Order: EO-531606
PM: Richard Villafania
Email: richard.villafania@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-6900

Notes:

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
S-1 - NORTH OF STOCKPILE	23-APR-2025 08:45	531606-001	1	Soil	EPA 8290 - Dioxins & Furans	
S-2 - SOUTH OF STOCKPILE	23-APR-2025 08:46	531606-002	1	Soil	EPA 8290 - Dioxins & Furans	

Notes:	Relinquished By:	Received By:
	J. Dautoyan EA-ORA	
	Date: 4/23/25 1725	Date: 04/24/25 1043
	Date:	Date:
	Date:	Date:

CoC/Label Reconciliation Report WO# 2504214

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2504214-01	A S-1 - NORTH OF STOCKPILE	☑	531606-001	23-Apr-25 08:45	☐ A	B Clear Glass Jar, 120mL	Solid	
2504214-02	A S-2 - SOUTH OF STOCKPILE	☑	531606-002	23-Apr-25 08:46	☐	Clear Glass Jar, 120mL	Solid	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?			✓
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

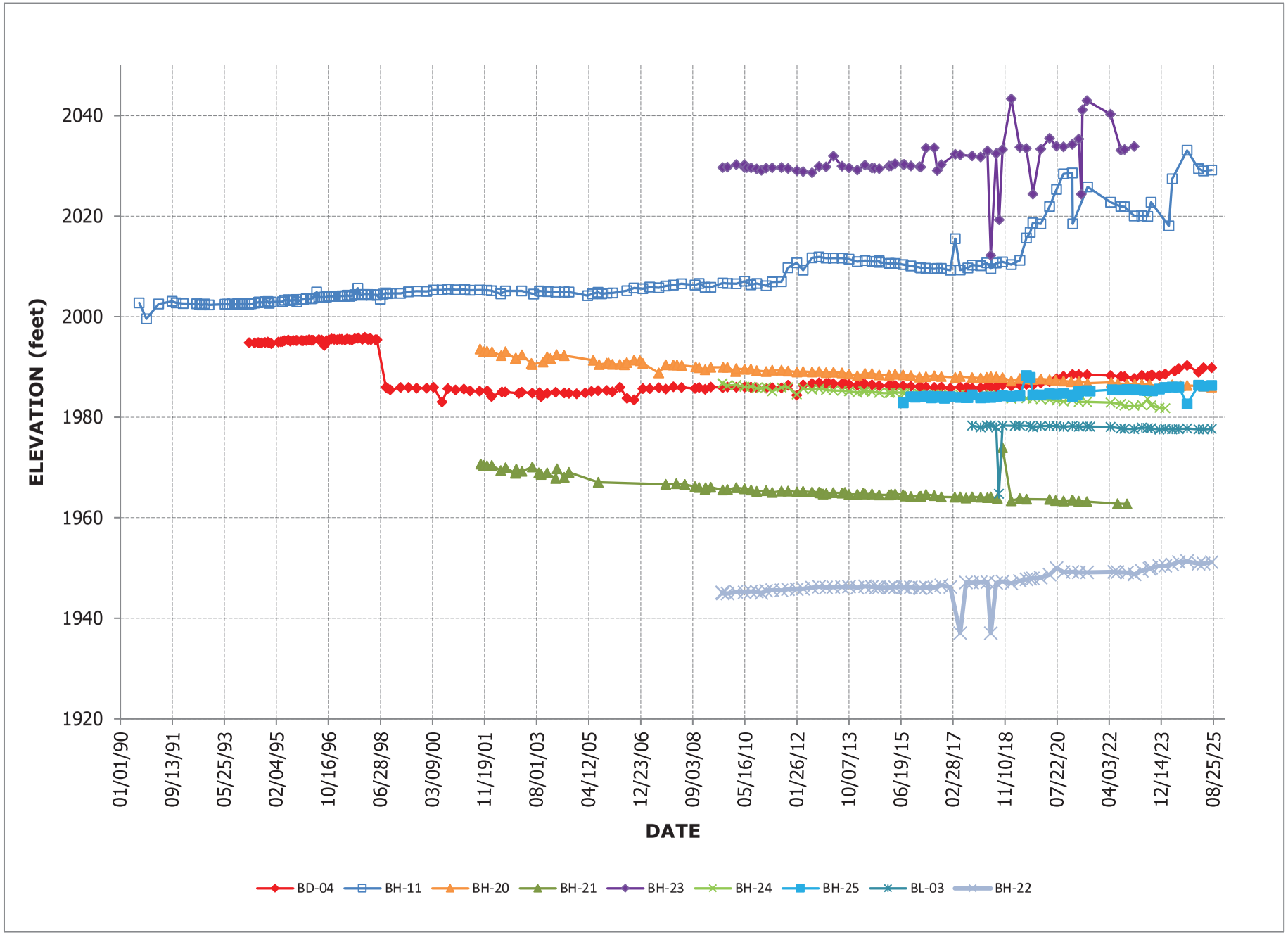
Comments:
A) Underlined part missing on sample label
B) received in clear Jar

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: KA 04/24/25
MLS 04/24/25

Appendix E – Soil Waste Profile Sheets

Badlands Sanitary Landfill
Groundwater Elevation Time Series Graph



Appendix F – Historical Time Series Graphs – Groundwater Elevations

General Groundwater Monitoring and Sampling Procedures for Riverside County Sanitary Landfills

Updated October 2010

1. Introduction

This document describes the general groundwater monitoring and sampling procedures utilized by the Riverside County Waste Management Department (Department) at Riverside County landfills. As the title of this document indicates, these procedures are a general guidance document. Site specific conditions may require some deviation from the general procedures specified herein.

2. Sample Collection

2.1 Measurement of Static Water Level Elevation

2.1.1 Equipment Used

The standard equipment used by the Department when sampling groundwater in the field is as follows:

- Water Level Meter - equipped with polyethylene tape line permanently embossed in 0.01, 0.1 and 1-foot increments.

2.1.2 Procedure to be Followed

Groundwater measurements are taken to the depth of standing water and once every five years to the total depth of the well. This information is then used, if sampling, to calculate the volume of stagnant water in the well and provide a check on the integrity of the well (e.g., identify siltation problems). Measurements are to be taken to 0.01-foot. Each well shall have a permanent, easily identified reference point from which its water level measurement is taken. Prior to November 1, 1994, all reference points were established by a licensed surveyor and are located on the top of the steel well cap. As of November 1, 1994 all future reference elevations shall be surveyed and marked with an "X" on the due North perimeter of the steel well casing ring (the area exposed after removing the steel cap). If any questions are raised as to which method was used, original survey notes shall be referred to. This surveyed reference point shall be used to establish the "PVC Reference Point (Monitoring Port) Elevation" immediately after well installation/completion. It is this "PVC Reference Point" that all sounding depths are measured to and then noted on the Quarterly Water Level Measurements or Groundwater Monitoring field sampling sheet. All elevations are in relation to the specified National Geodetic Vertical Datum.

Groundwater wells are to be sounded using this technique, whether or not the groundwater well is currently sampled for laboratory analysis or has been consistently dry. Water depth measurements (soundings) shall be conducted on the same day at any one site for all of that sites groundwater wells, ideally within the shortest time frame possible, in order to minimize any variations in readings due to temperature, rain, etc. Typically, water level depths shall be measured in all wells when first arriving on site, prior to any sampling activities.

After determining the groundwater depth at the well, the water level meter sensor shall be decontaminated with non-phosphorous soap and de-ionized water. Refer to Section 4 for addition information regarding decontamination procedures.

2.2 In-situ or Field Analysis

2.2.1 Equipment Used

Flow through water quality meters/cells (typically YSI brand).

2.2.2 Procedure to be Followed

Physically or chemically unstable/transient analytes should be measured in the field, rather than in the laboratory. As such, the Department measures the following analytes in the field during and at the conclusion of micro-purging: Temperature, Electrical Conductivity, Dissolved Oxygen (DO), pH and Oxidation-Reduction Potential (ORP). This equipment is utilized at the surface of the well and is flow-through type analytical cells, and thus, the groundwater flowing through these

cells never is introduced into the sampling chain.

Calibration of the equipment shall be performed, prior to use, in accordance with the operating manuals.

2.3 Well Evacuation (Purging)

2.3.1 Equipment Used

2.3.1.1 Bladder Pumps for Micro-Purging

The Department utilizes bladder pumps from various vendors (GeoGuard, Geopump, GeoTech and QED) for well sampling. These pumps utilize Teflon lined polyethylene (PE) tubing for air supply and water discharge. The air supply tube is typically 1/4-inch or 3/8-inch diameter and water discharge tube is typically 3/8-inch or 1/2-inch diameter. Industrial grade nitrogen, in 300 cubic foot bottles, is used to inflate the bladder pumps.

2.3.1.2 Digital Cycle Controller

When utilizing the bladder pumps for micro-purging, a pump controller is necessary to ensure proper pump and fill times to lift the water out of the well. The Department uses controllers from various vendors (QED MP10UH, Geoguard Master Flo Model 55100 and Geotech Geocontrol 2 controller).

2.3.2 Procedure to be Followed

2.3.2.1 Water Level Measurement

Before any activities at the groundwater monitoring well are to be performed, the following procedures need to be followed:

- Unlock and remove the steel or aluminum well lid.
- The water level depth and casing depth shall be sounded and noted on the appropriate field form, in accordance with Section 2.1.
- Any indication of vandalism or other damage to the groundwater well structure is noted on the Groundwater Field Sampling Log and photos are taken.

2.3.2.2 Micro-Purge

2.3.2.2.1 Using Bladder Pumps

Bladder pumps shall be operated only with industrial grade compressed nitrogen. The pump controller shall be set at a rate that allows for micro-purging. The micro-purge rate and sampling rate shall generally be around 0.5 liters per minute. Some deviation from this rate may occur due to site specific conditions.

Prior to micro-purging, the water quality meter shall be connected in-line, turned on before groundwater is to be micro-purged from the well, and set-up/calibrated in accordance with the manufacturer's manual. This is critical as baseline values must be recorded immediately upon initiating micro-purge efforts in order to compare with stabilized values after the first and second bladder/discharge line volumes.

Once the pump equipment is installed, water quality probes calibrated, micro-purge volumes calculated, and field data sheets prepared, micro-purging (well evacuation) shall commence. Once micro-purging has commenced, calibration of the micro-purge rate shall be obtained by using a container graduated in liter increments or a flow-through meter and timed using a stop-watch. The micro-purge rate (liters per minute) shall be then obtained by dividing the total number of liters by the total number of minutes. This information is noted on the Groundwater Field Sampling Log and the time required for one bladder and discharge tubing volume to be micro-purged is calculated based on the two micro-purge volumes previously calculated and the micro-purge rate. Every time that

a volume is evacuated (micro-purged), pH, temperature, electrical conductivity, dissolved oxygen (DO), and oxygen reduction potential (ORP), at sites where this is measured, shall be recorded on the Groundwater Field Sampling Log.

Purging shall generally be considered complete when approximately two volumes of pump tubing and the volume of the pump have been removed from the, and when field parameters have stabilized, Stabilized parameter criteria are defined by the following percent change: Electrical Conductivity ± 5 percent, DO ± 10 percent, pH ± 5 percent, and ORP ± 5 percent.

When purging is deemed complete, a groundwater sample shall be collected for turbidity analysis. The turbidity groundwater sample shall be collected in a preserved 1,000 ml plastic bottle. The sample shall be analyzed for turbidity utilizing field equipment at the Department's office.

2.4 Sample Withdrawal

2.4.1 Equipment Used

2.4.1.1 Bladder Pumps for Micro-Purging

The Department utilizes bladder pumps from various vendors (Geoguard, Geopump, Geotech and QED) for well sampling. These pumps utilize Teflon lined PE tubing for air supply and water discharge. This tubing is typically 1/4-inch or 3/8-inch diameter for air supply and 3/8-inch or 1/2-inch diameter for water discharge. Industrial grade nitrogen, in 300 cubic foot bottles, is used to inflate the bladder pumps.

2.4.1.2 Digital Cycle Controller

When utilizing the bladder pumps for micro-purging, a pump controller is necessary to ensure proper pump and fill times to lift the water out of the well. The Department uses controllers from various vendors (Geogard Master Flo Model 55100 pump controller and GeoTech 2 controller).

2.4.2 Procedure

All samples are collected and handled by procedures designed to eliminate outside sources of contamination. All personnel handling samples are required to wear disposable, lab-grade gloves. Sample collection flow rate is set to minimize agitation, which may cause loss of volatile organic compounds (VOCs). To preserve the integrity of potential VOCs, the sample flow rate is maintained at generally 0.5 liters per minute.

The sampling equipment, such as pumps, tubing, piping, etc., which come into contact with the sample water are dedicated to each groundwater well for the Riverside County Landfills. This significantly reduces the potential for cross-contamination of samples.

In situations where non-dedicated sampling equipment is utilized, monitoring well sampling progresses from the well that is expected to be least contaminated to the well that is expected to be most contaminated, based on historical analytical results, to minimize the potential for cross-contamination of samples that may result from inadequate decontamination of sampling equipment.

The rate at which a well is sampled shall not exceed the rate at which it was micro-purged. Ideally, the rate of sample collection is approximately the same as the actual groundwater flow rate. Because this is typically not possible, the Department purges at a rate of approximately 0.5 liters per minute, which is considered a low sampling rate. Low sampling rates help ensure that particulates, immobile in the subsurface under ambient conditions, are not entrained into the sample and that VOCs are not stripped from the sample. Pumps are also operated in a continuous, non-pulsating manner so that they do not produce samples that are aerated in the

discharge tube or upon discharge.

Groundwater samples are collected as soon as possible after the micro-purging of the well. Groundwater is allowed to flow directly from the bladder pump discharge tube into the sample container. Sample containers are provided by the laboratory along with appropriate preservative, if necessary, for the analysis method. All samples are stored on ice, out of sunlight, and delivered to the laboratory as soon as possible, to meet analysis hold times.

3. SAMPLE PRESERVATION AND HANDLING

3.1 Sample Containers

3.1.1 Equipment Used

Depending upon the groundwater monitoring well being sampled, the type of sampling event (routine or special), the contract laboratory, and the list of parameters to be analyzed, the required containers will vary. The specific containers required for each groundwater monitoring well to be sampled are specified on the Department's Groundwater Field Sampling Log data sheet. All containers shall be provided by the contract laboratory, new or certified clean, and contain the specified preservative (to be filled and provided by the contract lab). The Department shall not place preservative chemicals in any containers.

3.1.2 Procedure to be Followed

All sample bottles used are to be obtained from the Department's contact laboratory (which shall be accredited by the California Department of Public Health, Environmental Laboratory Accreditation Program). All 40 ml volatile organic analysis (VOA) vials shall be chilled in the ice chest for at least 30 minutes prior to sampling in order to minimize contraction of the liquid and creation of an air pocket in the vial. Additionally, all procedures for field collection shall be performed in accordance with *SW-846*, *Standard Methods for the Examination of Water and Waste Water*, and any specific QA/QC control measures recommend for a particular analytical technique. If there are any questions regarding the appropriate procedure/container for sample collection, field staff is expected to contact the program manager who can then look up the analytical method in either of the above mentioned books.

3.2 Special Handling Considerations

3.2.1 Procedure to be Followed

Samples requiring analysis for organics should not be filtered. Samples shall not be transferred from one container to another, because losses of organic material onto the walls of the container or aeration may occur. Total organic halogens (TOX) and total organic carbon (TOC) samples should be handled and analyzed as materials containing volatile organic compounds. No headspace should exist in the sample containers to minimize the possibility of volatilization of organics. While filling the sample containers, the sample containers should be gently tapped several times with one or two fingers to force air bubbles to rise to the surface. Containers should be slightly overfilled with groundwater, such that a convex water surface forms at the top the container, prior to sealing the container with the appropriate lid. Field logs and laboratory analysis reports should note the headspace in the sample container(s) at the time of receipt by the laboratory, as well as at the time the sample was first transferred to the sample container at the wellhead.

Groundwater samples on which metals analysis will be conducted shall be field filtered through a new 0.45-micron membrane filter, prior to being transferred to a bottle, preserved with nitric acid. If a metals sample(s) can not be field filtered, it should be noted on the chain of custody that the contracted laboratory is to filter the sample(s) and an additional unpreserved poly quart should be filled.

4. DECONTAMINATION

4.1 Equipment Used

Mild Non-Phosphate Detergent/De-ionized Water Solution

4.2 Procedure

All reusable equipment (e.g. water level water and water quality instrument) shall be decontaminated prior to use at a new well location. All well locations, even those on the same site, are considered a new well location.

Reusable equipment shall be washed in a mixture of Alconox or equivalent non-phosphate detergent and water filtered through reverse osmosis (RO). A brush shall be utilized to dislodge soil or other encrusted materials. Following the detergent wash, the sampling equipment shall be rinsed in RO water followed by a final rinse in RO water.

5. CHAIN-OF-CUSTODY

5.1 Equipment Used

Sample Labels - prevent misidentification of samples.

Sample Seals - protect the integrity of the sample from the time it is collected until it is opened in the laboratory.

Field Sheets - record information about each sample collection during the groundwater monitoring program.

Chain of Custody - establish the documentation necessary to trace sample possession from the time of collection to analysis.

Sample Analysis Request Sheets - serve as official communication to the laboratory of the particular analysis required for each sample and proved further evidence that the chain of custody is complete.

Laboratory Logbook - maintained at laboratory and record all pertinent information about the sample.

5.2 Procedure

Sample Labels

To prevent misidentification of samples, the Field Technician must affix legible labels to each sample container. The labels should be sufficiently durable to remain legible even when wet and shall contain the following minimum information:

- Sample Identification Number (Well ID)
- Name of Collector (s)
- Date and time (24 hour) of collection
- Place of Collection

Field Sheets

The Department shall keep up-to-date field sheets that document the following:

- Identification of Well
- Well Depth

- Static water level depth and measurement technique
- Well yield - high or low
- Purge volume and pumping rate
- Time well purged
- Well evacuation procedure/equipment
- Sample withdrawal procedure/equipment
- Date and time (24 hour) of collection
- Well sampling sequence
- Type of sample containers used and sample id numbers
- Preservatives used
- Field analysis data
- Field observations on sampling event
- Name of collector

Chain of Custody

The chain of custody document is used to ensure the integrity of the samples from collection until delivery to the laboratory. A triplicate form is used to record the following:

- Sample number
- Signature of collector
- Date and time (24 hour) of collection
- Sample Matrix (e.g., groundwater, soil, etc.)
- Identification of Well
- Number of containers
- EDF Required (Yes or No)
- Sample Disposal
- Parameters requested for analysis
- Signature of person(s) involved in the chain of possession
- Inclusive dates of possession

Sample Analysis Request Sheet

Upon arriving at the contract laboratory, a laboratory accredited by the California Department of Public Health, Environmental Laboratory Accreditation Program, all chain of custody sheets shall have the aforementioned "Sample Analysis Request Sheet" attached and filled in with the following appropriate information:

- Name of person receiving the samples
- Laboratory sample number (if different from field number)
- Date of sample receipt
- Analyses to be performed (note any methods in addition to or in lieu of standard suite of methods/parameters).

6. FIELD QA/QC

6.1 Field QA/QC

6.1.1 Equipment Used

Trip Blanks - One 40 ml volatile organic analysis (VOA) vial with hydrochloric acid (HCl) preservative filled with water and supplied by the contract laboratory is required for each sampling event. One 1 liter amber glass container filled with water and supplied by the contract laboratory is required for select sampling events.

Equipment Blanks - Only required when using non-dedicated equipment, consisting of one 40 ml VOA vial with HCl preservative filled with RO water flushed through the entire sampling equipment train.

6.1.2 Procedure

Trip blanks shall be used to verify that the sample handling procedures have not affected the sample integrity. Trip blanks must be kept in a refrigerated condition and not be exposed to any potential contaminants not associated with the sampling protocol. During the day of the sampling event, a trip blank shall be kept with the sample bottles at all times (when the sample containers are first selected including and until the sample containers are relinquished), and shall also be kept in the same cooler for laboratory pickup/delivery.

Generally, the Department shall use dedicated sampling equipment at each well location. The use of dedicated sampling equipment precludes the need for equipment blanks, which measure the effectiveness of decontamination procedures.

In the atypical circumstance that non-dedicated reusable equipment is utilized to sample a well, an equipment blank shall be prepared following thorough decontamination. Refer to Section 4 for decontamination information.

Appendix G – General Monitoring Procedures

Badland Sanitary Landfill

Second Quarter 2025 Groundwater Field Data

Well	Tech	Date	DTW (feet)
BD-04	Mauricio Gonzales	4/30/2025	246.12
BL-03	Mauricio Gonzales	4/30/2025	372.80
BH-CP	Mauricio Gonzales	4/30/2025	194.75
BH-11	Mauricio Gonzales	4/30/2025	47.83
BH-20	Mauricio Gonzales	4/30/2025	401.40
BH-21	Mauricio Gonzales	4/30/2025	DRY
BH-22	Mauricio Gonzales	4/30/2025	67.50
BH-25	Mauricio Gonzales	4/30/2025	187.25
PROBE-11	Mauricio Gonzales	4/30/2025	165.76

Appendix H – Second Quarter 2025 Field Data

Badlands Groundwater Sampling Event

○ Semi-Annual Sampling Event

○ Re-Sample Event

TECH:	Maurizio & Dirk
DATE:	8/4/25

Well ID	Water Depth	Casing Depth	Height of Water	Sample Time	Vol to Purge (Liters)	Total Purged (Liters)	Pump Pressure (psi)	Pump Time (sec)	Fill Time (Sec)	Purge Rate (ml/min)	Turbidity (NTU)
BH-21											

Bailer Size:

Inches in bailer	Liters bailed	Total Volume bailed

Bailer Size:

Inches in bailer	Liters bailed	Total Volume bailed

FIELD PARAMETER MEASUREMENTS

Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)

Badlands Groundwater Sampling Event

TECH:	Mauricio G.
DATE:	8/4/25

Well ID:	Sample Order
BH-24	1
Depth to Water (ft):	[redacted]
Height of Water (ft):	

Total Casing Depth (ft):	278.62
Pump Inlet Depth (ft):	234
Volume to Purge (Liters):	6.7
Estimated Purge Time (min):	14
Purge Rate (ml/min):	500
Pump Pressure (PSI)	140
Pump Time (sec)	25
Fill Time (sec)	30

Field Notes:

No Access

FIELD PARAMETER MEASUREMENTS

Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)

Sample Time: _____

Badlands Groundwater Sampling Event

TECH:	M. Gonzalez
DATE:	8-4-25

Well ID:	Sample Order
BH-11	3
Depth to Water (ft):	47.62
Height of Water (ft):	40.20

Total Casing Depth (ft):	87.82
Pump Inlet Depth (ft):	81
Volume to Purge (Liters):	3.7
Estimated Purge Time (min):	8
Purge Rate (ml/min):	500
Pump Pressure (PSI)	45
Pump Time (sec)	12
Fill Time (sec)	10

Field Notes:

FIELD PARAMETER MEASUREMENTS						
Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)
0	8:39 am	22.0	1403	74.7	7.41	85.0
1	8:41	21.6	1398	68.2	7.38	77.6
2	8:43	21.6	1393	71.2	7.36	77.9
3	8:45	21.6	1393	68.4	7.36	77.9
4	8:47	21.6	1391	69.8	7.36	80.1

Sample Time: 8:50 am

Badlands Groundwater Sampling Event

TECH:	M. Gonzalez
DATE:	8-4-25

Well ID:	Sample Order
BL-03	5
Depth to Water (ft):	372.67
Height of Water (ft):	29.0

Total Casing Depth (ft):	401.67
Pump Inlet Depth (ft):	398
Volume to Purge (Liters):	9.8
Estimated Purge Time (min):	20
Purge Rate (ml/min):	500
Pump Pressure (PSI)	185
Pump Time (sec)	15
Fill Time (sec)	30

Field Notes:

FIELD PARAMETER MEASUREMENTS

Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)
0	9:52	24.0	647	67.0	7.46	139.8
2.5	9:57	23.8	557	64.8	6.95	142.7
5	10:02	23.7	558	62.8	6.89	148.0
7.5	10:07	23.7	557	47.7	7.95	138.7
10	10:12	23.7	559	31.8	8.94	126.4

Sample Time: 10:15am

Badlands Groundwater Sampling Event

TECH:	M. Gonzalez
DATE:	8-4-25

Well ID:	Sample Order
BD-04	6
Depth to Water (ft):	246.1
Height of Water (ft):	29.35

Total Casing Depth (ft):	275.45
Pump Inlet Depth (ft):	259
Volume to Purge (Liters):	7.1
Estimated Purge Time (min):	15
Purge Rate (ml/min):	500
Pump Pressure (PSI)	135
Pump Time (sec)	27
Fill Time (sec)	30

Field Notes:

FIELD PARAMETER MEASUREMENTS

Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)
0	11:40	24.4	640	61.7	7.53	183.0
1.5	11:43	23.9	653	22.8	8.91	143.1
3	11:46	23.9	655	15.6	8.94	146.5
4.5	11:49	23.9	654	13.5	8.92	149.7
6	11:52	23.5	654	12.1	8.92	150.5
7.5	11:55	23.5	654	12.1	8.91	151.8

Sample Time: 12:00 pm

Badlands Groundwater Sampling Event

TECH:	M. Gonzalez
DATE:	8-4-15

Well ID:	Sample Order
BH-22	7
Depth to Water (ft):	67.23
Height of Water (ft):	47.12

Total Casing Depth (ft):	114.35
Pump Inlet Depth (ft):	79
Volume to Purge (Liters):	3.7
Estimated Purge Time (min):	8
Purge Rate (ml/min):	500
Pump Pressure (PSI)	55
Pump Time (sec)	10
Fill Time (sec)	20

Field Notes:

FIELD PARAMETER MEASUREMENTS

Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)
0	2:45	23.0	1147	62.3	8.25	142.5
1	2:47	22.4	1037	57.1	8.7	149.3
2	2:49	22.3	1150	55.4	8.67	153.1
3	2:51	22.4	1078	54.1	8.65	157.0
4	2:53	22.3	1135	54.8	8.68	157.6

Sample Time: 3:00pm

Badlands Groundwater Sampling Event

TECH:	Erik H. / Maurizio G.
DATE:	8/8/25

Well ID:	Sample Order
BH-25	8
Depth to Water (ft):	187.15
Height of Water (ft):	57.85

Total Casing Depth (ft):	245
Pump Inlet Depth (ft):	230
Volume to Purge (Liters):	4.5
Estimated Purge Time (min):	12
Purge Rate (ml/min):	400
Pump Pressure (PSI)	125
Pump Time (sec)	18
Fill Time (sec)	20

Field Notes:

FIELD PARAMETER MEASUREMENTS						
Volume Purged (Liters)	Time (HH:MM)	Temperature (Degrees C)	Elec. Cond. (mmhos/cm)	DO (mg/L)	pH (units)	ORP (mV)
	9:46	21.4	1899	18.6	7.33	111.8
	9:50	22.1	1889	16.7	8.02	101.9
	9:54	22.7	1887	9.3	8.42	101.1
	9:58	22.6	1869	7.2	8.45	102.4

Sample Time: 10:00

Appendix I – Third Quarter 2025 Field Data

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 539231
Report Level : II
Report Date : 08/20/2025

Analytical Report *prepared for:*

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Project: SANTA ANA - Badlands

Authorized for release by:



Zach Barker, Project Manager
zach.barker@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

ENTHALPY ANALYTICAL

Sample Summary

Panda Workman Riverside County 14310 Frederick Street Moreno Valley, CA 92553		Lab Job #: Project No: Location: Date Received:	539231 SANTA ANA Badlands 08/05/25

Sample ID	Lab ID	Collected	Matrix
BL-TB	539231-001	08/04/25 07:00	Water
BH-11	539231-002	08/04/25 08:50	Water
BL-03	539231-003	08/04/25 10:15	Water
BD-04	539231-004	08/04/25 12:00	Water
BH-22	539231-005	08/04/25 15:00	Water
BH-11 TB	539231-006	08/04/25 08:50	Water
BL-03 TB	539231-007	08/04/25 10:15	Water
BD-04 TB	539231-008	08/04/25 12:00	Water
BH-22 TB	539231-009	08/04/25 15:00	Water

ENTHALPY ANALYTICAL

Case Narrative

Riverside County 14310 Frederick Street Moreno Valley, CA 92553 Panda Workman	Lab Job Number: 539231 Project No: SANTA ANA Location: Badlands Date Received: 08/05/25

This data package contains sample and QC results for nine water samples, requested for the above referenced project on 08/05/25. The samples were received in good condition.

Volatile Organics by GC/MS (EPA 8260B):

- High recovery was observed for benzene in the MS for batch 378520; the parent sample was not a project sample, the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples.
- Acrolein and acrylonitrile were analyzed outside of hold time; affected data was qualified with "H".
- A number of samples had pH greater than 2.
- No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

Pesticides (EPA 8081A):
No analytical problems were encountered.

Total Organic Carbon by IR (SM 5310B):
No analytical problems were encountered.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6020 and SM 2340B) Water:
No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Metals (EPA 245.1):

- Low recoveries were observed for mercury in the MS/MSD for batch 378401; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- The sample was filtered outside the 40CFR136 recommended 15 minute holding time.
- No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):

- High recoveries were observed for chloride and fluoride in the MS/MSD of BH-11 (lab # 539231-002).
- Responses exceeding the instrument's linear range were observed for chloride, nitrogen, nitrate, and sulfate in the MSs/MSDs of BH-11 (lab # 539231-002); affected data was qualified with "E".
- No other analytical problems were encountered.

Hexavalent Chromium by Ion Chromatograph (EPA 218.6):
No analytical problems were encountered.

Total Phosphate as P (SM 4500-P-B2-E):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Conductivity (SM2510B):
No analytical problems were encountered.

Total Phenolics (EPA 420.1):
No analytical problems were encountered.

Alkalinity (SM2320B):
No analytical problems were encountered.

Sulfide (SM 4500-S2-D):
No analytical problems were encountered.

Ion Balance (Ion Balance):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Chemical Oxygen Demand (SM5220D):

- Low recoveries were observed for chemical oxygen demand in the MS/MSD for batch 378771; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- No other analytical problems were encountered.

Cyanide - Semi-Automated Method (SM 4500-CN-E and SM 4500-CN-E):
No analytical problems were encountered.

8151A Chlorinated Herbicides (EPA 8151A):
Weck Laboratories, Inc. in City of Industry, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

9020-TOX-OUT (EPA 9020):
Weck Laboratories, Inc. in City of Industry, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 524.3 (EPA 524.3):
Weck Laboratories, Inc. in City of Industry, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 539231

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Riverside County Waste Resources	Quote #:	
Report To:	Panda Workman/Simon Chang	Proj. Name:	Badlands
Email:	WasteLabSumittals@rivco.org	Proj. #:	
Address:	14310 Frederick Street	P.O. #:	
	Moreno Valley, CA	Address:	
Phone:	951.486.3200	Global ID:	L10003146754
Fax:		Sampled By:	Mauricio G. Gonzalez

Login 539231

1211
2.012.1

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Please See Attachment	EPA 8260	Test Instructions / Comments
1	BL-TB	08/04/25	7:00 AM	W	1 / Large			X	2 Travel Blank Bottles
2									
3	BH-11	08/04/25	8:50 AM	W	1 / Large		X		23 Sample Bottle
4	BL-03	08/04/25	10:15 AM	W	1 / Large		X		23 Sample Bottle
5	BD-04	08/04/25	12:00 PM	W	1 / Large		X		23 Sample Bottle
6	BH-22	08/04/25	3:00 PM	W	1 / Large		X		23 Sample Bottle
7									
8									
9									
10									

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Mauricio G. Gonzalez	RCDWR / Engineering Tech. I	08-04-25 / 04:30 PM
[1] Received By:			EA	8/05/25 1424
[2] Relinquished By:			EA	8/05/25 1558
[2] Received By:				AUG 05 2025
[3] Relinquished By:		GCA 08/05/25		
[3] Received By:		Guerry Kim	EA	AUG 05 2025 1558

5 of 5

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 8/5/25 WO# 539231 Client: RIVERSIDE COUNTY

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☑ No

Custody seals intact on arrival? ☑ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

☑ Courier ☐ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened 8/5/25 By (initials) RRS Type of ice used: ☑ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR 11 CF: +0.1

Cooler Temp (°C) #1: 2.0 / 2.1 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ☑ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ☑ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	✓		
2) Is the sampler's name present on the CoC?	✓		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	✓		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			✓
5) Were all of, and only, the correct samples received?	✓		
6) Are sample labels present, legible, and in agreement with the CoC?	✓		
7) Does the container count match the CoC?	✓		
8) Was sufficient sample volume / mass received for the analyses requested?	✓		
9) Were samples received in proper containers for the analyses requested?	✓		
10) Were samples received with > 1/2 holding time remaining?	✓		
11) Are samples properly preserved as indicated by CoC / labels?	✓		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			✓
13) Are VOA vials free from headspace/bubbles > 6mm?	✓		

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

☐ **No additional discrepancies**

Date Logged 8/5/25 **By (print)** FPD **(sign)** _____

Date Labeled 8/5/25 **By (print)** RRS **(sign)** RRS for RRS

Constituents of Concern Analysis Request Sheet

Sample Date: 8-4-25

Ciricle Site:

Badlands | **Hemet**

Corona | **Idyllwild**

Elsinore | **Mead Valley**

EPA 200.8 Parameters (mg/l)
Mercury (Hg), total

EPA 300.0 Parameters (mg/l)
Chloride (Cl)
Nitrate (NO3-N)
Sulfate (SO4)

EPA 420.2 Parameters (mg/l)
Phenols

EPA 4500S D Parameters (mg/l)
Total Sulfide

EPA 6010B Parameters (mg/l)
Boron (B), Dissolved
Calcium (Ca), Dissolved
Iron (Fe), Dissolved
Magnesium (Mg), Dissolved
Potassium (K), Dissolved
Sodium (Na), Dissolved
Total Hardness

EPA 6020 Parameters (mg/l)
Antimony (Sb), total
Arsenic (As), total
Barium (Ba), total
Beryllium (Be), total
Cadmium (Cd), total
Chromium (Cr), total
Cobalt (Co), total
Copper (Cu), total
Lead (Pb), total
Manganese (Mn), total
Nickel (Ni), total
Selenium (Se), total
Silver (Ag), total
Thallium (Tl), total
Tin (Sn), total
Vanadium (V), total
Zinc (Zn), total

SM 2320 B Parameter (mg/l)
Bicarbonate(HCO3)
Carbonate (CO3)
Hydroxide (OH)
Total Alkalinity

SM 2510 Parameter (umho/cm)
Specific Conductance

SM 2540 C Parameter (mg/l)
Total Dissolved Solids (TDS)

EPA 218.6 Parameter (mg/l)
Chromium, hexavalent

SM 4500CN Parameter (mg/l)
Cyanide (CN)

SM 4500P B Parameter (mg/l)
Total Phosphorus (P)

SM 4500P E Parameter (mg/l)
Phosphate (PO4)

SM4500F C Parameter (mg/l)
Fluoride (F)

SM 5220D Parameter (mg/l)
Chemical Oxygen Demand (COD)

SM5310B Parameter (mg/l)
Total Organic Carbon (TOC)

SM 5320B Parameter (mg/l)
Total Organic Halogens (TOX)

Calculated Parameters (me/l)
Total Anions
Total Cations

EPA 524.3 Parameters (ug/l)
Dibromochloropropane (DBCP)
Ethylene dibromide (EDB)

EPA 8081A Parameters (ug/l)
&-BHC (delta-BHC)
@-BHC (alpha-BHC)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
b-BHC (beta-BHC)
Chlordane
Dieldrin
Endosulfan sulfate
Endosulfan-I
Endosulfan-II
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene
y-BHC (Lindane)

EPA 8082 Parameters (ug/l)
PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260

EPA 8151B Parameters (ug/l)
2,4,5-T
2,4,5-TP (Silvex)
2,4-D

EPA 8260 and EPA 8270 Parameters are located on page 2

EPA 8260B Parameters (ug/l)			
1,1,1,2-Tetrachloroethane	2-Butanone (MEK)	Chloroform	Naphthalene
1,1,1-Trichloroethane	2-Hexanone	Chloromethane	Propionitrile
1,1,2,2-Tetrachloroethane	Acetone	Chloroprene	Styrene
1,1,2-Trichloroethane	Acetonitrile	cis-1,2-Dichloroethene	Tetrachloroethene
1,1-Dichloroethane	**Acrolein**	cis-1,3-Dichloropropene	Toluene
1,1-Dichloroethene	**Acrylonitrile**	Dibromochloromethane	Total Xylenes
1,1-Dichloropropene	Allyl Chloride	Dibromomethane	m-Xylene
1,2,3-Trichloropropane	Benzene	Dichlorodifluoromethane	o-Xylene
1,2,4-Trichlorobenzene	Bromochloromethane	Ethyl Methacrylate	p-Xylene
1,2-Dichlorobenzene	Bromodichloromethane	Ethylbenzene	trans-1,2-Dichloroethene
1,2-Dichloroethane	Bromoform	Iodomethane	trans-1,3-Dichloropropene
1,2-Dichloropropane	Bromomethane	Isobutyl Alcohol	trans-1,4-Dichloro-2-butene
1,3-Dichlorobenzene	Carbon Disulfide	Methacrylonitrile	Trichloroethene
1,3-Dichloropropane	Carbon Tetrachloride	Methyl isobutyl ketone (MIBK)	Trichlorofluoromethane
1,4-Dichlorobenzene	Chlorobenzene	Methyl Methacrylate	Vinyl Acetate
2,2-Dichloropropane	Chloroethane	Methylene Chloride	Vinyl Chloride

EPA 8270C Parameters (ug/l)			
1,2,4,5-Tetrachlorobenzene	Acenaphthene	Hexachlorocyclopentadiene	Phorate
1,3,5-Trinitrobenzene	Acenaphthylene	Hexachloroethane	p-Phenylenediamine
1,4-Naphthoquinone	Acetophenone	Hexachloropropene	Pronamide
1-Naphthylamine	Anthracene	Indeno(1,2,3-cd)pyrene	Pyrene
2,3,4,6-Tetrachlorophenol	Benzo(a)anthracene	Methapyrilene	Safrole
2,4,5-Trichlorophenol	Benzo(a)pyrene	Methyl Methanesulfonate	Thionazin
2,4,6-Trichlorophenol	Benzo(b)fluoranthene	Methyl Parathion	
2,4-Dichlorophenol	Benzo(ghi)perylene	Nitrobenzene	
2,4-Dimethylphenol	Benzo(k)fluoranthene	N-Nitrosodiethylamine	
2,4-Dinitrophenol	Benzyl Alcohol	N-Nitrosodimethylamine	
2,4-Dinitrotoluene	Bis(2-chloroethoxy)methane	Isodrin	
2,6-Dichlorophenol	Bis(2-chloroethyl) ether	Isophorone	
2,6-Dinitrotoluene	Bis(2-chloroisopropyl) ether	Isosafrole	
2-Acetylaminofluorene	Bis(2-ethylhexyl) Phthalate	Kepone	
2-Chloronaphthalene	Butyl benzyl Phthalate	m-Cresol	
2-Chlorophenol	Chlorobenzilate	m-Dinitrobenzene	
2-Methylnaphthalene	Chrysene	N-Nitrosodi-n-butylamine	
2-Napthylamine	Diallate	N-Nitrosodi-n-propylamine	
2-Nitroaniline	Dibenzo(a,h)anthracene	N-Nitrosodiphenylamine	
2-Nitrophenol	Dibenzofuran	N-Nitrosomethylethylamine	
3,3'-Dichlorobenzidine	Diethyl Phthalate	N-Nitrosopiperidine	
3,3'-Dimethylbenzidine	Dimethoate	N-Nitrosopyrrolidine	
3-Methylchlolanthrene	Dimethyl Phthalate	o,o,o-Triethyl Phosphorothioate	
3-Nitroaniline	Di-n-butyl Phthalate	O-Cresol	
4,6-Dinitro-2-methylphenol	Di-n-octyl Phthalate	O-Toluidine	
4-Aminobiphenyl	Dinoseb	p-(Dimethylamino) Azobenzene	
4-Bromophenyl phenyl ether	Diphenylamine	Parathion (Ethyl)	
4-Chloro-3-methylphenol	Disulfoton	p-Cresol	
4-Chloroaniline	Ethyl Methanesulfonate	Pentachlorobenzene	
4-Chlorophenyl phenyl ether	Famphur	Pentachloronitrobenzene	
4-Nitroaniline	Fluoranthene	Pentachlorophenol	
4-Nitrophenol	Fluorene	Phenacetin	
5-Nitro-o-toluidine	Hexachlorobenzene	Phenanthrene	
7,12-Dimethylbenz(a)anthracene	Hexachlorobutadiene	Phenol	

Bottle List is located on page 3

Analysis	Bottle Type	Volume	# of Bottles
EPA 8260	VOA w/ HCL	20 mL	3
EPA 8260 - Acetonitrile/Acrolein	VOA	20 mL	2
EDB/DBCP (524.3)	VOA - Malic/Acetic Acid	20 mL	3
Total Metals	Poly w/ HCL - **NOT** Field Filter	250 mL	1
Dissolved Metals	Poly w/ HCL - Field Filter	250 mL	1
8270C/8081/8082/8151	Amber	1 Liter	5
Chloride,Nitrate, Sulfate	Poly	125 mL	1
TOC	Amber w/ H2SO4	125 mL	1
Phosphorous, Phosphate, COD	Poly w/ H2SO4	250 mL	1
Cyanide	Poly w/ NaOh	250 mL	1
Hexavalent Chromium	Poly w/ Buffer	125 mL	1
TOX, Phenols	Amber w/ H2SO4	500 mL	2
Alkalinity, Conductivity, TDS	Poly	500 mL	1
Sulfide	Poly w/ NaOH+ZnAC	250 mL	1
		Total:	24

8-4-25

1. Relinquished By and Date

1. Recieived By and Date

2. Relinquished By and Date

2. Recieived By and Date

Badlands			
1. BH-24	3. BH-11	5. BD-04	7. BH-25
2. BH-21	4. BL-03	6. BH-22	

Corona			
1. CG-05	3. CG-04	5. CG-08	7. CG-07
2. CG-03	4. CG-01	6. CG-06A	8. CG-02

Elsinore			
1. E-01	2. E-05	3. E-02	4. E-03

Hemet		
1. HE-05	3. HE-04	5. HE-03
2. HE-01	4. HE-02	

Idyllwild			
1. I-05	2. I-03	3. I-01	4. I-02

Mead Valley			
1. MV-14	4. MV-08	7. MV-03	10. MV-05
2. MV-13	5. MV-12	8. MV-04	11. MV-11
3. MV-01	6. MV-10	9. MV-07	12. MV-09
			13. MV-06

ENTHALPY ANALYTICAL

Analysis Results for 539231

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Lab Job #: 539231
Project No: SANTA ANA
Location: Badlands
Date Received: 08/05/25

Sample ID: BL-TB **Lab ID: 539231-001** **Collected: 08/04/25 07:00**
Matrix: Water

539231-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
Chloroprene	ND		ug/L	200	0.3	1	378520	08/07/25	08/07/25	LYZ
3-Chloropropene	ND		ug/L	5.0	0.2	1	378520	08/07/25	08/07/25	LYZ
Ethyl methacrylate	ND		ug/L	50	2.4	1	378520	08/07/25	08/07/25	LYZ
Methyl acrylonitrile	ND		ug/L	35	1.3	1	378520	08/07/25	08/07/25	LYZ
Methyl methacrylate	ND		ug/L	5.0	2.4	1	378520	08/07/25	08/07/25	LYZ
Vinyl Acetate	ND		ug/L	50	2.5	1	378520	08/07/25	08/07/25	LYZ
Acrolein	ND		ug/L	200	1.6	1	378520	08/07/25	08/07/25	LYZ
Acrylonitrile	ND		ug/L	10	0.4	1	378520	08/07/25	08/07/25	LYZ
Freon 12	ND		ug/L	5.0	0.2	1	378520	08/07/25	08/07/25	LYZ
Chloromethane	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
Vinyl Chloride	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
Bromomethane	ND		ug/L	5.0	0.3	1	378520	08/07/25	08/07/25	LYZ
Chloroethane	ND		ug/L	5.0	0.05	1	378520	08/07/25	08/07/25	LYZ
Trichlorofluoromethane	ND		ug/L	5.0	0.08	1	378520	08/07/25	08/07/25	LYZ
Iodomethane	ND		ug/L	10		1	378520	08/07/25	08/07/25	LYZ
Acetone	ND		ug/L	100	8.8	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethene	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
Methylene Chloride	ND		ug/L	10	0.2	1	378520	08/07/25	08/07/25	LYZ
Carbon Disulfide	ND		ug/L	5.0	0.3	1	378520	08/07/25	08/07/25	LYZ
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethane	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
2-Butanone	ND		ug/L	10	0.9	1	378520	08/07/25	08/07/25	LYZ
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	1	378520	08/07/25	08/07/25	LYZ
2,2-Dichloropropane	ND		ug/L	5.0	0.09	1	378520	08/07/25	08/07/25	LYZ
Chloroform	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
Bromochloromethane	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloropropene	ND		ug/L	5.0	0.08	1	378520	08/07/25	08/07/25	LYZ
Carbon Tetrachloride	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane	ND		ug/L	5.0	0.09	1	378520	08/07/25	08/07/25	LYZ
Benzene	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
Trichloroethene	ND		ug/L	5.0	0.05	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloropropane	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
Bromodichloromethane	ND		ug/L	5.0	0.05	1	378520	08/07/25	08/07/25	LYZ
Dibromomethane	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	1	378520	08/07/25	08/07/25	LYZ
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	1	378520	08/07/25	08/07/25	LYZ
Toluene	**0.08**	J	ug/L	5.0	0.05	1	378520	08/07/25	08/07/25	LYZ
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	1	378520	08/07/25	08/07/25	LYZ
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	1	378520	08/07/25	08/07/25	LYZ
2-Hexanone	ND		ug/L	10	0.6	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
Tetrachloroethene	ND		ug/L	5.0	0.09	1	378520	08/07/25	08/07/25	LYZ
Dibromochloromethane	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
Chlorobenzene	ND		ug/L	5.0	0.05	1	378520	08/07/25	08/07/25	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	1	378520	08/07/25	08/07/25	LYZ
Ethylbenzene	ND		ug/L	5.0	0.04	1	378520	08/07/25	08/07/25	LYZ
m,p-Xylenes	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
o-Xylene	ND		ug/L	5.0	0.06	1	378520	08/07/25	08/07/25	LYZ
Styrene	ND		ug/L	5.0	0.06	1	378520	08/07/25	08/07/25	LYZ
Bromoform	ND		ug/L	5.0	0.08	1	378520	08/07/25	08/07/25	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	1	378520	08/07/25	08/07/25	LYZ
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	1	378520	08/07/25	08/07/25	LYZ
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	1	378520	08/07/25	08/07/25	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	1	378520	08/07/25	08/07/25	LYZ
Naphthalene	ND		ug/L	5.0	0.3	1	378520	08/07/25	08/07/25	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	1	378520	08/07/25	08/07/25	LYZ
Xylene (total)	ND		ug/L	5.0		1	378520	08/07/25	08/07/25	LYZ
TIC:Acetonitrile	ND		ug/L			1	378520	08/07/25	08/07/25	LYZ
TIC:Isobutyl Alcohol	ND		ug/L			1	378520	08/07/25	08/07/25	LYZ
TIC:Propionitrile	ND		ug/L			1	378520	08/07/25	08/07/25	LYZ
Surrogates				**Limits**						
Dibromofluoromethane	99%		%REC	70-130		1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane-d4	82%		%REC	70-130		1	378520	08/07/25	08/07/25	LYZ
Toluene-d8	94%		%REC	70-130		1	378520	08/07/25	08/07/25	LYZ
Bromofluorobenzene	97%		%REC	70-130		1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BH-11	Lab ID: 539231-002	Collected: 08/04/25 08:50

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 218.6 Prep Method: METHOD											
Hexavalent Chromium	**1.1**		ug/L	1.0	0.024	Water	1	379606	08/19/25 09:45	08/19/25 10:25	BPH
Method: EPA 245.1 Prep Method: EPA 245.1											
Mercury	ND		ug/L	0.40	0.032	Water	1	378401	08/06/25	08/06/25	MLL
Method: EPA 300.0 Prep Method: METHOD											
Fluoride	**0.95**		mg/L	0.20	0.073	Water	1	379542	08/18/25 16:50	08/18/25 19:41	KUM
Chloride	**120**		mg/L	1.0	0.27	Water	1	378383	08/05/25 18:48	08/06/25 02:09	KUM
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	Water	1	378383	08/05/25 18:48	08/06/25 02:09	KUM
Nitrogen, Nitrate	**18**		mg/L	0.10	0.05	Water	1	378383	08/05/25 18:48	08/06/25 02:09	KUM
Sulfate	**46**		mg/L	1.0	0.25	Water	1	378383	08/05/25 18:48	08/06/25 02:09	KUM
Method: EPA 420.1 Prep Method: METHOD											
Total Phenolics	ND		mg/L	0.010	0.0047	Water	1	378976	08/12/25	08/12/25	LVL
Method: EPA 6010B Prep Method: EPA 3015A											
Boron	**0.13**		mg/L	0.050	0.0062	Filtrate	1	378385	08/05/25	08/05/25	CAP
Calcium	**16**		mg/L	1.0	0.57	Filtrate	1	378385	08/05/25	08/05/25	CAP
Iron	ND		mg/L	0.10	0.041	Filtrate	1	378385	08/05/25	08/05/25	CAP
Magnesium	**1.1**		mg/L	0.10	0.025	Filtrate	1	378385	08/05/25	08/05/25	CAP
Potassium	**1.2**		mg/L	0.50	0.42	Filtrate	1	378385	08/05/25	08/05/25	CAP
Sodium	**290**		mg/L	0.50	0.34	Filtrate	1	378385	08/05/25	08/05/25	CAP
Method: EPA 6020 Prep Method: EPA 3015A											
Antimony	ND		ug/L	2.0	0.31	Water	1	378404	08/06/25	08/13/25	DXC
Arsenic	**0.62**	J	ug/L	2.0	0.21	Water	1	378404	08/06/25	08/08/25	DXC
Barium	**36**		ug/L	5.0	0.33	Water	1	378404	08/06/25	08/08/25	DXC
Beryllium	ND		ug/L	1.0	0.076	Water	1	378404	08/06/25	08/12/25	DXC
Cadmium	ND		ug/L	1.0	0.11	Water	1	378404	08/06/25	08/08/25	DXC
Chromium	**0.50**	J	ug/L	5.0	0.34	Water	1	378404	08/06/25	08/08/25	DXC
Cobalt	ND		ug/L	1.0	0.068	Water	1	378404	08/06/25	08/08/25	DXC
Copper	ND		ug/L	3.0	0.71	Water	1	378404	08/06/25	08/08/25	DXC
Lead	ND		ug/L	5.0	0.16	Water	1	378404	08/06/25	08/08/25	DXC
Manganese	ND		ug/L	10	1.7	Water	1	378404	08/06/25	08/08/25	DXC
Nickel	ND		ug/L	5.0	1.3	Water	1	378404	08/06/25	08/08/25	DXC
Selenium	**1.7**	J	ug/L	4.0	1.6	Water	1	378404	08/06/25	08/08/25	DXC
Tin	**0.816**	J	ug/L	5.00	0.328	Water	1	378404	08/06/25	08/08/25	DXC
Silver	ND		ug/L	5.0	0.50	Water	1	378404	08/06/25	08/08/25	DXC
Thallium	ND		ug/L	1.0	0.42	Water	1	378404	08/06/25	08/08/25	DXC
Vanadium	**5.9**		ug/L	5.0	0.26	Water	1	378404	08/06/25	08/08/25	DXC
Zinc	ND		ug/L	10	7.6	Water	1	378404	08/06/25	08/08/25	DXC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8081A Prep Method: EPA 3510C											
alpha-BHC	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
beta-BHC	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
gamma-BHC	ND		ug/L	0.05	0.009	Water	0.96	378324	08/06/25	08/06/25	MES
delta-BHC	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Heptachlor	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Aldrin	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Heptachlor epoxide	ND		ug/L	0.05	0.009	Water	0.96	378324	08/06/25	08/06/25	MES
Endosulfan I	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Dieldrin	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
4,4'-DDE	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Endrin	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Endosulfan II	ND		ug/L	0.1	0.02	Water	0.96	378324	08/06/25	08/06/25	MES
Endosulfan sulfate	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
4,4'-DDD	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Endrin aldehyde	ND		ug/L	0.1	0.02	Water	0.96	378324	08/06/25	08/06/25	MES
4,4'-DDT	ND		ug/L	0.1	0.04	Water	0.96	378324	08/06/25	08/06/25	MES
Chlordane (Technical)	ND		ug/L	1.0	0.2	Water	0.96	378324	08/06/25	08/06/25	MES
Methoxychlor	ND		ug/L	0.5	0.03	Water	0.96	378324	08/06/25	08/06/25	MES
Toxaphene	ND		ug/L	1.0	0.4	Water	0.96	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX	92%		%REC	29-120		Water	0.96	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl	116%		%REC	33-132		Water	0.96	378324	08/06/25	08/06/25	MES
Method: EPA 8082 Prep Method: EPA 3510C											
Aroclor-1016	ND		ug/L	0.48	0.29	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1221	ND		ug/L	0.48	0.45	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1232	ND		ug/L	0.48	0.26	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1242	ND		ug/L	0.48	0.28	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1248	ND		ug/L	0.48	0.23	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1254	ND		ug/L	0.48	0.26	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1260	ND		ug/L	0.48	0.31	Water	0.96	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX (PCB)	93%		%REC	28-120		Water	0.96	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl (PCB)	109%		%REC	28-138		Water	0.96	378324	08/06/25	08/06/25	MES
Method: EPA 8260B Prep Method: EPA 5030B											
Chloroprene	ND		ug/L	200	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
3-Chloropropene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Ethyl methacrylate	ND		ug/L	50	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl acrylonitrile	ND		ug/L	35	1.3	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl methacrylate	ND		ug/L	5.0	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Acetate	ND		ug/L	50	2.5	Water	1	378520	08/07/25	08/07/25	LYZ
Acrolein	ND		ug/L	200	1.6	Water	1	378520	08/07/25	08/07/25	LYZ
Acrylonitrile	ND		ug/L	10	0.4	Water	1	378520	08/07/25	08/07/25	LYZ
Freon 12	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Chloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Chloride	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Bromomethane	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Trichlorofluoromethane	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Iodomethane	ND		ug/L	10		Water	1	378520	08/07/25	08/07/25	LYZ
Acetone	ND		ug/L	100	8.8	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Methylene Chloride	ND		ug/L	10	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Disulfide	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
2-Butanone	ND		ug/L	10	0.9	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
2,2-Dichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroform	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromochloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Tetrachloride	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Benzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Trichloroethene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloropropane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromodichloromethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromomethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Toluene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
2-Hexanone	ND		ug/L	10	0.6	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichloropropane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Tetrachloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromochloromethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Chlorobenzene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Ethylbenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
m,p-Xylenes	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
o-Xylene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Styrene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Bromoform	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Naphthalene	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Xylene (total)	ND		ug/L	5.0		Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Acetonitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Isobutyl Alcohol	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Propionitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
Surrogates				**Limits**							
Dibromofluoromethane	102%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dichloroethane-d4	101%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Toluene-d8	96%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Bromofluorobenzene	97%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Method: EPA 8270C Prep Method: EPA 3510C											
N-Nitrosodimethylamine	ND		ug/L	9.4	2.6	Water	0.94	378398	08/06/25	08/06/25	ZFA
Phenol	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/06/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/L	24	3.7	Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Chlorophenol	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/06/25	ZFA
Benzyl alcohol	ND		ug/L	9.4	4.9	Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Methylphenol	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
3-,4-Methylphenol	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/06/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/L	9.4	3.9	Water	0.94	378398	08/06/25	08/06/25	ZFA
Hexachloroethane	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
Nitrobenzene	ND		ug/L	24	7.9	Water	0.94	378398	08/06/25	08/06/25	ZFA
Isophorone	ND		ug/L	9.4	4.0	Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Nitrophenol	ND		ug/L	9.4	4.3	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4-Dimethylphenol	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4-Dichlorophenol	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
4-Chloroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
Hexachlorobutadiene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
4-Chloro-3-methylphenol	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Methylnaphthalene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
Hexachlorocyclopentadiene	ND		ug/L	24	9.7	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4,6-Trichlorophenol	ND		ug/L	9.4	4.2	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4,5-Trichlorophenol	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Chloronaphthalene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Nitroaniline	ND		ug/L	47	3.2	Water	0.94	378398	08/06/25	08/06/25	ZFA
Dimethylphthalate	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/06/25	ZFA
Acenaphthylene	ND		ug/L	9.4	4.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,6-Dinitrotoluene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/06/25	ZFA
3-Nitroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
Acenaphthene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4-Dinitrophenol	ND		ug/L	47	7.2	Water	0.94	378398	08/06/25	08/06/25	ZFA
4-Nitrophenol	ND		ug/L	9.4	5.3	Water	0.94	378398	08/06/25	08/06/25	ZFA
Dibenzofuran	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4-Dinitrotoluene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
Diethylphthalate	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/06/25	ZFA
Fluorene	ND		ug/L	9.4	3.2	Water	0.94	378398	08/06/25	08/06/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
4-Nitroaniline	ND		ug/L	9.4	3.0	Water	0.94	378398	08/06/25	08/06/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/L	47	12	Water	0.94	378398	08/06/25	08/06/25	ZFA
N-Nitrosodiphenylamine	ND		ug/L	9.4	5.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/06/25	ZFA
4-Bromophenyl-phenylether	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/06/25	ZFA
Hexachlorobenzene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
Pentachlorophenol	ND		ug/L	24	3.0	Water	0.94	378398	08/06/25	08/06/25	ZFA
Phenanthrene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
Anthracene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/06/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Di-n-butylphthalate	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/06/25	ZFA
Fluoranthene	ND		ug/L	9.4	1.5	Water	0.94	378398	08/06/25	08/06/25	ZFA
Pyrene	ND		ug/L	9.4	1.8	Water	0.94	378398	08/06/25	08/06/25	ZFA
Butylbenzylphthalate	ND		ug/L	9.4	2.0	Water	0.94	378398	08/06/25	08/06/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/L	24	3.3	Water	0.94	378398	08/06/25	08/06/25	ZFA
Benzo(a)anthracene	ND		ug/L	9.4	0.93	Water	0.94	378398	08/06/25	08/06/25	ZFA
Chrysene	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/06/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
Di-n-octylphthalate	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/06/25	ZFA
Benzo(b)fluoranthene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
Benzo(k)fluoranthene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/06/25	ZFA
Benzo(a)pyrene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/06/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/06/25	ZFA
Dibenz(a,h)anthracene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
Benzo(g,h,i)perylene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:1,3,5-Trinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:1,4-Naphthoquinone	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:1-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:2,6-Dichlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:2-Acetylaminofluorene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:2-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:3,3'-Dimethylbenzidine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:3-Methylcholanthrene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:4-Aminobiphenyl	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:5-Nitro-o-toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Acetophenone	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Chlorobenzilate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Diallate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Dimethoate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Dinoseb	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Diphenylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Disulfoton	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Ethyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Famphur	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Hexachloropropene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Isodrin	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Isosafrole	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Kepone	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Methapyrilene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Methyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Methyl parathion	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:N-Nitrosodiethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:N-Nitrosomethylethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:N-Nitrosopiperidine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:N-Nitrosopyrrolidine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Parathion ethyl	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Pentachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
TIC:Pentachloronitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Phenacetin	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Phorate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Pronamide	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Safrole	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:Thionazin	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:m-Dinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:o-Toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
TIC:p-Phenylenediamine	ND		ug/L			Water	0.94	378398	08/06/25	08/06/25	ZFA
Surrogates				**Limits**							
2-Fluorophenol	46%		%REC	15-120		Water	0.94	378398	08/06/25	08/06/25	ZFA
Phenol-d6	29%		%REC	15-120		Water	0.94	378398	08/06/25	08/06/25	ZFA
2,4,6-Tribromophenol	86%		%REC	15-140		Water	0.94	378398	08/06/25	08/06/25	ZFA
Nitrobenzene-d5	80%		%REC	15-123		Water	0.94	378398	08/06/25	08/06/25	ZFA
2-Fluorobiphenyl	74%		%REC	15-120		Water	0.94	378398	08/06/25	08/06/25	ZFA
Terphenyl-d14	97%		%REC	15-120		Water	0.94	378398	08/06/25	08/06/25	ZFA
Method: Ion Balance											
Anions	**14**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Cations	**14**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Method: SM 2340B Prep Method: EPA 3015A											
Hardness as CaCO3	**50**		mg/L	3.3		Water	1	378404	08/06/25	08/08/25	SMP
Method: SM 4500-CN-E Prep Method: METHOD											
Cyanide	ND		mg/L	0.0050	0.0021	Water	0.5	378730	08/08/25	08/11/25	CKN
Method: SM 4500-P-B2-E											
Total Phosphate as P	**0.010**	J	mg/L	0.020	0.010	Water	1	378442	08/06/25	08/11/25	JAK
Total Phosphate as PO4	**0.031**	J	mg/L	0.060	0.031	Water	1	378442	08/06/25	08/11/25	JAK
Method: SM 4500-P-B5-E											
Phosphorus	ND		mg/L	0.020	0.012	Water	1	378441	08/06/25	08/13/25	JAK
Method: SM 4500-S2-D Prep Method: METHOD											
Sulfide	ND		mg/L	0.10		Water	1	378661	08/07/25	08/07/25	TXC
Method: SM 5310B Prep Method: SM 5310B											
Total Organic Carbon	**0.76**	J	mg/L	1.0	0.24	Water	1	379401	08/15/25	08/18/25	CKN
Method: SM2320B Prep Method: METHOD											
Alkalinity, Total as CaCO3	**440**		mg/L	5.0		Water	2.5	379366	08/15/25	08/15/25	WWC
Bicarbonate	**540**		mg/L	6.0		Water	2.5	379366	08/15/25	08/15/25	WWC
Carbonate	ND		mg/L	5.0		Water	2.5	379366	08/15/25	08/15/25	WWC
Hydroxide	ND		mg/L	5.0		Water	2.5	379366	08/15/25	08/15/25	WWC
Method: SM2510B Prep Method: METHOD											
Specific Conductance	**1,460**		umhos/cm	1.0		Water	1	378458	08/07/25	08/07/25	ARM
Method: SM2540C Prep Method: METHOD											

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-002 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Total Dissolved Solids	**930**		mg/L	20		Water	2	378824	08/11/25	08/12/25	CDR
Method: SM5220D Prep Method: METHOD											
Chemical Oxygen Demand	ND		mg/L	4.0	2.0	Water	1	378771	08/09/25	08/09/25	ARM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BL-03	Lab ID: 539231-003	Collected: 08/04/25 10:15

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 218.6 Prep Method: METHOD											
Hexavalent Chromium	**0.92**	J	ug/L	1.0	0.024	Water	1	379606	08/19/25 09:45	08/19/25 11:41	BPH
Method: EPA 245.1 Prep Method: EPA 245.1											
Mercury	ND		ug/L	0.40	0.032	Water	1	378401	08/06/25	08/06/25	MLL
Method: EPA 300.0 Prep Method: METHOD											
Fluoride	**2.0**		mg/L	0.20	0.073	Water	1	379542	08/18/25 16:50	08/18/25 20:32	KUM
Chloride	**140**		mg/L	1.0	0.27	Water	1	378383	08/05/25 18:48	08/06/25 03:11	KUM
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	Water	1	378383	08/05/25 18:48	08/06/25 03:11	KUM
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	Water	1	378383	08/05/25 18:48	08/06/25 03:11	KUM
Sulfate	**20**		mg/L	1.0	0.25	Water	1	378383	08/05/25 18:48	08/06/25 03:11	KUM
Method: EPA 420.1 Prep Method: METHOD											
Total Phenolics	ND		mg/L	0.010	0.0047	Water	1	378976	08/12/25	08/12/25	LVL
Method: EPA 6010B Prep Method: EPA 3015A											
Boron	**0.33**		mg/L	0.050	0.0062	Filtrate	1	378385	08/05/25	08/05/25	CAP
Calcium	**5.0**		mg/L	1.0	0.57	Filtrate	1	378385	08/05/25	08/05/25	CAP
Iron	ND		mg/L	0.10	0.041	Filtrate	1	378385	08/05/25	08/05/25	CAP
Magnesium	**0.054**	J	mg/L	0.10	0.025	Filtrate	1	378385	08/05/25	08/05/25	CAP
Potassium	**0.77**		mg/L	0.50	0.42	Filtrate	1	378385	08/05/25	08/05/25	CAP
Sodium	**94**		mg/L	0.50	0.34	Filtrate	1	378385	08/05/25	08/05/25	CAP
Method: EPA 6020 Prep Method: EPA 3015A											
Antimony	ND		ug/L	2.0	0.31	Water	1	378404	08/06/25	08/13/25	DXC
Arsenic	**45**		ug/L	2.0	0.21	Water	1	378404	08/06/25	08/08/25	DXC
Barium	**1.8**	J	ug/L	5.0	0.33	Water	1	378404	08/06/25	08/08/25	DXC
Beryllium	ND		ug/L	1.0	0.21	Water	1	378404	08/06/25	08/13/25	DXC
Cadmium	ND		ug/L	1.0	0.11	Water	1	378404	08/06/25	08/08/25	DXC
Chromium	ND		ug/L	5.0	0.34	Water	1	378404	08/06/25	08/08/25	DXC
Cobalt	ND		ug/L	1.0	0.068	Water	1	378404	08/06/25	08/08/25	DXC
Copper	ND		ug/L	3.0	0.71	Water	1	378404	08/06/25	08/08/25	DXC
Lead	ND		ug/L	5.0	0.16	Water	1	378404	08/06/25	08/08/25	DXC
Manganese	ND		ug/L	10	1.7	Water	1	378404	08/06/25	08/08/25	DXC
Nickel	ND		ug/L	5.0	1.3	Water	1	378404	08/06/25	08/08/25	DXC
Selenium	ND		ug/L	4.0	1.6	Water	1	378404	08/06/25	08/08/25	DXC
Tin	**0.648**	J	ug/L	5.00	0.328	Water	1	378404	08/06/25	08/08/25	DXC
Silver	ND		ug/L	5.0	0.50	Water	1	378404	08/06/25	08/08/25	DXC
Thallium	ND		ug/L	1.0	0.42	Water	1	378404	08/06/25	08/08/25	DXC
Vanadium	**220**		ug/L	5.0	0.26	Water	1	378404	08/06/25	08/08/25	DXC
Zinc	ND		ug/L	10	7.6	Water	1	378404	08/06/25	08/08/25	DXC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8081A Prep Method: EPA 3510C											
alpha-BHC	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
beta-BHC	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
gamma-BHC	ND		ug/L	0.05	0.009	Water	0.96	378324	08/06/25	08/06/25	MES
delta-BHC	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Heptachlor	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Aldrin	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Heptachlor epoxide	ND		ug/L	0.05	0.009	Water	0.96	378324	08/06/25	08/06/25	MES
Endosulfan I	ND		ug/L	0.05	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Dieldrin	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
4,4'-DDE	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Endrin	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Endosulfan II	ND		ug/L	0.1	0.02	Water	0.96	378324	08/06/25	08/06/25	MES
Endosulfan sulfate	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
4,4'-DDD	ND		ug/L	0.1	0.01	Water	0.96	378324	08/06/25	08/06/25	MES
Endrin aldehyde	ND		ug/L	0.1	0.02	Water	0.96	378324	08/06/25	08/06/25	MES
4,4'-DDT	ND		ug/L	0.1	0.04	Water	0.96	378324	08/06/25	08/06/25	MES
Chlordane (Technical)	ND		ug/L	1.0	0.2	Water	0.96	378324	08/06/25	08/06/25	MES
Methoxychlor	ND		ug/L	0.5	0.03	Water	0.96	378324	08/06/25	08/06/25	MES
Toxaphene	ND		ug/L	1.0	0.4	Water	0.96	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX	93%		%REC	29-120		Water	0.96	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl	117%		%REC	33-132		Water	0.96	378324	08/06/25	08/06/25	MES
Method: EPA 8082 Prep Method: EPA 3510C											
Aroclor-1016	ND		ug/L	0.48	0.29	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1221	ND		ug/L	0.48	0.45	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1232	ND		ug/L	0.48	0.26	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1242	ND		ug/L	0.48	0.28	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1248	ND		ug/L	0.48	0.23	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1254	ND		ug/L	0.48	0.26	Water	0.96	378324	08/06/25	08/06/25	MES
Aroclor-1260	ND		ug/L	0.48	0.31	Water	0.96	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX (PCB)	95%		%REC	28-120		Water	0.96	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl (PCB)	110%		%REC	28-138		Water	0.96	378324	08/06/25	08/06/25	MES
Method: EPA 8260B Prep Method: EPA 5030B											
Chloroprene	ND		ug/L	200	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
3-Chloropropene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Ethyl methacrylate	ND		ug/L	50	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl acrylonitrile	ND		ug/L	35	1.3	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl methacrylate	ND		ug/L	5.0	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Acetate	ND		ug/L	50	2.5	Water	1	378520	08/07/25	08/07/25	LYZ
Acrolein	ND		ug/L	200	1.6	Water	1	378520	08/07/25	08/07/25	LYZ
Acrylonitrile	ND		ug/L	10	0.4	Water	1	378520	08/07/25	08/07/25	LYZ
Freon 12	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Chloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Chloride	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Bromomethane	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Trichlorofluoromethane	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Iodomethane	ND		ug/L	10		Water	1	378520	08/07/25	08/07/25	LYZ
Acetone	ND		ug/L	100	8.8	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Methylene Chloride	ND		ug/L	10	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Disulfide	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
2-Butanone	ND		ug/L	10	0.9	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
2,2-Dichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroform	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromochloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Tetrachloride	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Benzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Trichloroethene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloropropane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromodichloromethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromomethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Toluene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
2-Hexanone	ND		ug/L	10	0.6	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichloropropane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Tetrachloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromochloromethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Chlorobenzene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Ethylbenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
m,p-Xylenes	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
o-Xylene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Styrene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Bromoform	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Naphthalene	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Xylene (total)	ND		ug/L	5.0		Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Acetonitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Isobutyl Alcohol	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Propionitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
Surrogates				**Limits**							
Dibromofluoromethane	101%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dichloroethane-d4	101%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Toluene-d8	94%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Bromofluorobenzene	98%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Method: EPA 8270C Prep Method: EPA 3510C											
N-Nitrosodimethylamine	ND		ug/L	9.4	2.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenol	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/L	24	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Chlorophenol	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzyl alcohol	ND		ug/L	9.4	4.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Methylphenol	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
3-,4-Methylphenol	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/L	9.4	3.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachloroethane	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Nitrobenzene	ND		ug/L	24	7.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Isophorone	ND		ug/L	9.4	4.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Nitrophenol	ND		ug/L	9.4	4.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dimethylphenol	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dichlorophenol	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chloroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorobutadiene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chloro-3-methylphenol	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Methylnaphthalene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorocyclopentadiene	ND		ug/L	24	9.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,6-Trichlorophenol	ND		ug/L	9.4	4.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,5-Trichlorophenol	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Chloronaphthalene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Nitroaniline	ND		ug/L	47	3.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dimethylphthalate	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Acenaphthylene	ND		ug/L	9.4	4.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,6-Dinitrotoluene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
3-Nitroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Acenaphthene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dinitrophenol	ND		ug/L	47	7.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Nitrophenol	ND		ug/L	9.4	5.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dibenzofuran	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dinitrotoluene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Diethylphthalate	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Fluorene	ND		ug/L	9.4	3.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Nitroaniline	ND		ug/L	9.4	3.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/L	47	12	Water	0.94	378398	08/06/25	08/08/25	ZFA
N-Nitrosodiphenylamine	ND		ug/L	9.4	5.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Bromophenyl-phenylether	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorobenzene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Pentachlorophenol	ND		ug/L	24	3.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenanthrene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Anthracene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Di-n-butylphthalate	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Fluoranthene	ND		ug/L	9.4	1.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Pyrene	ND		ug/L	9.4	1.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Butylbenzylphthalate	ND		ug/L	9.4	2.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/L	24	3.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(a)anthracene	ND		ug/L	9.4	0.93	Water	0.94	378398	08/06/25	08/08/25	ZFA
Chrysene	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Di-n-octylphthalate	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(b)fluoranthene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(k)fluoranthene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(a)pyrene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dibenz(a,h)anthracene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(g,h,i)perylene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,3,5-Trinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,4-Naphthoquinone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2,6-Dichlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2-Acetylaminofluorene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:3,3'-Dimethylbenzidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:3-Methylcholanthrene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:4-Aminobiphenyl	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:5-Nitro-o-toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Acetophenone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Chlorobenzilate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Diallate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Dimethoate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Dinoseb	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Diphenylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Disulfoton	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Ethyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Famphur	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Hexachloropropene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Isodrin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Isosafrole	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Kepone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methapyrilene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methyl parathion	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosodiethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosomethylethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosopiperidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosopyrrolidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Parathion ethyl	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pentachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
TIC:Pentachloronitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Phenacetin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Phorate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pronamide	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Safrole	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Thionazin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:m-Dinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:o-Toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:p-Phenylenediamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
Surrogates				**Limits**							
2-Fluorophenol	41%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenol-d6	25%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,6-Tribromophenol	74%		%REC	15-140		Water	0.94	378398	08/06/25	08/08/25	ZFA
Nitrobenzene-d5	69%		%REC	15-123		Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Fluorobiphenyl	64%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Terphenyl-d14	77%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Method: Ion Balance											
Anions	**4.9**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Cations	**4.4**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Method: SM 2340B Prep Method: EPA 3015A											
Hardness as CaCO3	**14**		mg/L	3.3		Water	1	378404	08/06/25	08/08/25	SMP
Method: SM 4500-CN-E Prep Method: METHOD											
Cyanide	ND		mg/L	0.0050	0.0021	Water	0.5	378730	08/08/25	08/11/25	CKN
Method: SM 4500-P-B2-E											
Total Phosphate as P	**0.019**	J	mg/L	0.020	0.010	Water	1	378442	08/06/25	08/11/25	JAK
Total Phosphate as PO4	**0.058**	J	mg/L	0.060	0.031	Water	1	378442	08/06/25	08/11/25	JAK
Method: SM 4500-P-B5-E											
Phosphorus	**0.020**		mg/L	0.020	0.012	Water	1	378441	08/06/25	08/13/25	JAK
Method: SM 4500-S2-D Prep Method: METHOD											
Sulfide	ND		mg/L	0.10		Water	1	378662	08/07/25	08/07/25	TXC
Method: SM 5310B Prep Method: SM 5310B											
Total Organic Carbon	**0.36**	J	mg/L	1.0	0.24	Water	1	379401	08/15/25	08/18/25	CKN
Method: SM2320B Prep Method: METHOD											
Alkalinity, Total as CaCO3	**27**		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Bicarbonate	ND		mg/L	3.0		Water	1.3	379366	08/15/25	08/15/25	WWC
Carbonate	**15**		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Hydroxide	ND		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Method: SM2510B Prep Method: METHOD											
Specific Conductance	**580**		umhos/cm	1.0		Water	1	378458	08/07/25	08/07/25	ARM
Method: SM2540C Prep Method: METHOD											

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-003 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Total Dissolved Solids	**320**		mg/L	20		Water	2	378824	08/11/25	08/12/25	CDR
Method: SM5220D Prep Method: METHOD											
Chemical Oxygen Demand	ND		mg/L	4.0	2.0	Water	1	378771	08/09/25	08/09/25	ARM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BD-04	Lab ID: 539231-004	Collected: 08/04/25 12:00

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 218.6 Prep Method: METHOD											
Hexavalent Chromium	**0.96**	J	ug/L	1.0	0.024	Water	1	379606	08/19/25 09:45	08/19/25 11:54	BPH
Method: EPA 245.1 Prep Method: EPA 245.1											
Mercury	ND		ug/L	0.40	0.032	Water	1	378401	08/06/25	08/06/25	MLL
Method: EPA 300.0 Prep Method: METHOD											
Fluoride	**3.7**		mg/L	0.20	0.073	Water	1	379542	08/18/25 16:50	08/18/25 20:49	KUM
Chloride	**170**		mg/L	1.0	0.27	Water	1	378383	08/05/25 18:48	08/06/25 03:32	KUM
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	Water	1	378383	08/05/25 18:48	08/06/25 03:32	KUM
Nitrogen, Nitrate	**0.06**	J	mg/L	0.10	0.05	Water	1	378383	08/05/25 18:48	08/06/25 03:32	KUM
Sulfate	**23**		mg/L	1.0	0.25	Water	1	378383	08/05/25 18:48	08/06/25 03:32	KUM
Method: EPA 420.1 Prep Method: METHOD											
Total Phenolics	ND		mg/L	0.010	0.0047	Water	1	379506	08/18/25	08/18/25	LVL
Method: EPA 6010B Prep Method: EPA 3015A											
Boron	**0.34**		mg/L	0.050	0.0062	Filtrate	1	378385	08/05/25	08/05/25	CAP
Calcium	**7.7**		mg/L	1.0	0.57	Filtrate	1	378385	08/05/25	08/05/25	CAP
Iron	ND		mg/L	0.10	0.041	Filtrate	1	378385	08/05/25	08/05/25	CAP
Magnesium	**0.069**	J	mg/L	0.10	0.025	Filtrate	1	378385	08/05/25	08/05/25	CAP
Potassium	**0.88**		mg/L	0.50	0.42	Filtrate	1	378385	08/05/25	08/05/25	CAP
Sodium	**110**		mg/L	0.50	0.34	Filtrate	1	378385	08/05/25	08/05/25	CAP
Method: EPA 6020 Prep Method: EPA 3015A											
Antimony	**0.36**	J	ug/L	2.0	0.31	Water	1	378404	08/06/25	08/12/25	DXC
Arsenic	**18**		ug/L	2.0	0.21	Water	1	378404	08/06/25	08/08/25	DXC
Barium	**2.8**	J	ug/L	5.0	0.33	Water	1	378404	08/06/25	08/08/25	DXC
Beryllium	ND		ug/L	1.0	0.076	Water	1	378404	08/06/25	08/12/25	DXC
Cadmium	ND		ug/L	1.0	0.11	Water	1	378404	08/06/25	08/08/25	DXC
Chromium	**0.38**	J	ug/L	5.0	0.34	Water	1	378404	08/06/25	08/08/25	DXC
Cobalt	ND		ug/L	1.0	0.068	Water	1	378404	08/06/25	08/08/25	DXC
Copper	ND		ug/L	3.0	0.71	Water	1	378404	08/06/25	08/08/25	DXC
Lead	ND		ug/L	5.0	0.16	Water	1	378404	08/06/25	08/08/25	DXC
Manganese	ND		ug/L	10	1.7	Water	1	378404	08/06/25	08/08/25	DXC
Nickel	**1.4**	J	ug/L	5.0	1.3	Water	1	378404	08/06/25	08/08/25	DXC
Selenium	**8.5**		ug/L	4.0	1.6	Water	1	378404	08/06/25	08/08/25	DXC
Tin	ND		ug/L	5.00	0.328	Water	1	378404	08/06/25	08/08/25	DXC
Silver	ND		ug/L	5.0	0.50	Water	1	378404	08/06/25	08/08/25	DXC
Thallium	ND		ug/L	1.0	0.42	Water	1	378404	08/06/25	08/08/25	DXC
Vanadium	**63**		ug/L	5.0	0.26	Water	1	378404	08/06/25	08/08/25	DXC
Zinc	ND		ug/L	10	7.6	Water	1	378404	08/06/25	08/08/25	DXC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8081A Prep Method: EPA 3510C											
alpha-BHC	ND		ug/L	0.05	0.009	Water	0.94	378324	08/06/25	08/06/25	MES
beta-BHC	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
gamma-BHC	ND		ug/L	0.05	0.008	Water	0.94	378324	08/06/25	08/06/25	MES
delta-BHC	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Heptachlor	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Aldrin	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Heptachlor epoxide	ND		ug/L	0.05	0.009	Water	0.94	378324	08/06/25	08/06/25	MES
Endosulfan I	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Dieldrin	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
4,4'-DDE	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Endrin	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Endosulfan II	ND		ug/L	0.09	0.02	Water	0.94	378324	08/06/25	08/06/25	MES
Endosulfan sulfate	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
4,4'-DDD	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Endrin aldehyde	ND		ug/L	0.09	0.02	Water	0.94	378324	08/06/25	08/06/25	MES
4,4'-DDT	ND		ug/L	0.09	0.03	Water	0.94	378324	08/06/25	08/06/25	MES
Chlordane (Technical)	ND		ug/L	0.9	0.2	Water	0.94	378324	08/06/25	08/06/25	MES
Methoxychlor	ND		ug/L	0.5	0.03	Water	0.94	378324	08/06/25	08/06/25	MES
Toxaphene	ND		ug/L	0.9	0.4	Water	0.94	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX	90%		%REC	29-120		Water	0.94	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl	115%		%REC	33-132		Water	0.94	378324	08/06/25	08/06/25	MES
Method: EPA 8082 Prep Method: EPA 3510C											
Aroclor-1016	ND		ug/L	0.47	0.29	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1221	ND		ug/L	0.47	0.44	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1232	ND		ug/L	0.47	0.26	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1242	ND		ug/L	0.47	0.27	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1248	ND		ug/L	0.47	0.22	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1254	ND		ug/L	0.47	0.25	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1260	ND		ug/L	0.47	0.31	Water	0.94	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX (PCB)	92%		%REC	28-120		Water	0.94	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl (PCB)	109%		%REC	28-138		Water	0.94	378324	08/06/25	08/06/25	MES
Method: EPA 8260B Prep Method: EPA 5030B											
Chloroprene	ND		ug/L	200	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
3-Chloropropene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Ethyl methacrylate	ND		ug/L	50	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl acrylonitrile	ND		ug/L	35	1.3	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl methacrylate	ND		ug/L	5.0	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Acetate	ND		ug/L	50	2.5	Water	1	378520	08/07/25	08/07/25	LYZ
Acrolein	ND		ug/L	200	1.6	Water	1	378520	08/07/25	08/07/25	LYZ
Acrylonitrile	ND		ug/L	10	0.4	Water	1	378520	08/07/25	08/07/25	LYZ
Freon 12	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Chloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Chloride	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Bromomethane	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Trichlorofluoromethane	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Iodomethane	ND		ug/L	10		Water	1	378520	08/07/25	08/07/25	LYZ
Acetone	ND		ug/L	100	8.8	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Methylene Chloride	ND		ug/L	10	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Disulfide	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
2-Butanone	ND		ug/L	10	0.9	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
2,2-Dichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroform	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromochloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Tetrachloride	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Benzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Trichloroethene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloropropane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromodichloromethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromomethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Toluene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
2-Hexanone	ND		ug/L	10	0.6	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichloropropane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Tetrachloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromochloromethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Chlorobenzene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Ethylbenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
m,p-Xylenes	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
o-Xylene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Styrene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Bromoform	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Naphthalene	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Xylene (total)	ND		ug/L	5.0		Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Acetonitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Isobutyl Alcohol	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Propionitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
Surrogates				**Limits**							
Dibromofluoromethane	100%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
1,2-Dichloroethane-d4	100%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Toluene-d8	94%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Bromofluorobenzene	98%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Method: EPA 8270C Prep Method: EPA 3510C											
N-Nitrosodimethylamine	ND		ug/L	9.4	2.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenol	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/L	24	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Chlorophenol	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzyl alcohol	ND		ug/L	9.4	4.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Methylphenol	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
3-,4-Methylphenol	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/L	9.4	3.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachloroethane	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Nitrobenzene	ND		ug/L	24	7.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Isophorone	ND		ug/L	9.4	4.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Nitrophenol	ND		ug/L	9.4	4.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dimethylphenol	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dichlorophenol	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chloroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorobutadiene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chloro-3-methylphenol	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Methylnaphthalene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorocyclopentadiene	ND		ug/L	24	9.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,6-Trichlorophenol	ND		ug/L	9.4	4.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,5-Trichlorophenol	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Chloronaphthalene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Nitroaniline	ND		ug/L	47	3.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dimethylphthalate	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Acenaphthylene	ND		ug/L	9.4	4.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,6-Dinitrotoluene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
3-Nitroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Acenaphthene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dinitrophenol	ND		ug/L	47	7.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Nitrophenol	ND		ug/L	9.4	5.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dibenzofuran	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dinitrotoluene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Diethylphthalate	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Fluorene	ND		ug/L	9.4	3.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Nitroaniline	ND		ug/L	9.4	3.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/L	47	12	Water	0.94	378398	08/06/25	08/08/25	ZFA
N-Nitrosodiphenylamine	ND		ug/L	9.4	5.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Bromophenyl-phenylether	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorobenzene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Pentachlorophenol	ND		ug/L	24	3.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenanthrene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Anthracene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Di-n-butylphthalate	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Fluoranthene	ND		ug/L	9.4	1.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Pyrene	ND		ug/L	9.4	1.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Butylbenzylphthalate	ND		ug/L	9.4	2.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/L	24	3.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(a)anthracene	ND		ug/L	9.4	0.93	Water	0.94	378398	08/06/25	08/08/25	ZFA
Chrysene	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Di-n-octylphthalate	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(b)fluoranthene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(k)fluoranthene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(a)pyrene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dibenz(a,h)anthracene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(g,h,i)perylene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,3,5-Trinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,4-Naphthoquinone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2,6-Dichlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2-Acetylaminofluorene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:3,3'-Dimethylbenzidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:3-Methylcholanthrene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:4-Aminobiphenyl	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:5-Nitro-o-toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Acetophenone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Chlorobenzilate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Diallate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Dimethoate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Dinoseb	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Diphenylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Disulfoton	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Ethyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Famphur	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Hexachloropropene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Isodrin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Isosafrole	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Kepone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methapyrilene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methyl parathion	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosodiethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosomethylethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosopiperidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosopyrrolidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Parathion ethyl	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pentachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
TIC:Pentachloronitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Phenacetin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Phorate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pronamide	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Safrole	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Thionazin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:m-Dinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:o-Toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:p-Phenylenediamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
Surrogates				**Limits**							
2-Fluorophenol	43%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenol-d6	27%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,6-Tribromophenol	68%		%REC	15-140		Water	0.94	378398	08/06/25	08/08/25	ZFA
Nitrobenzene-d5	63%		%REC	15-123		Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Fluorobiphenyl	59%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Terphenyl-d14	74%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Method: Ion Balance											
Anions	**5.8**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Cations	**5.2**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Method: SM 2340B Prep Method: EPA 3015A											
Hardness as CaCO3	**20**		mg/L	3.3		Water	1	378404	08/06/25	08/08/25	SMP
Method: SM 4500-CN-E Prep Method: METHOD											
Cyanide	ND		mg/L	0.0050	0.0021	Water	0.5	378730	08/08/25	08/11/25	CKN
Method: SM 4500-P-B2-E											
Total Phosphate as P	**0.056**		mg/L	0.020	0.010	Water	1	378442	08/06/25	08/11/25	JAK
Total Phosphate as PO4	**0.17**		mg/L	0.060	0.031	Water	1	378442	08/06/25	08/11/25	JAK
Method: SM 4500-P-B5-E											
Phosphorus	**0.058**		mg/L	0.020	0.012	Water	1	378441	08/06/25	08/13/25	JAK
Method: SM 4500-S2-D Prep Method: METHOD											
Sulfide	ND		mg/L	0.10		Water	1	378662	08/07/25	08/07/25	TXC
Method: SM 5310B Prep Method: SM 5310B											
Total Organic Carbon	**0.38**	J	mg/L	1.0	0.24	Water	1	379401	08/15/25	08/18/25	CKN
Method: SM2320B Prep Method: METHOD											
Alkalinity, Total as CaCO3	**27**		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Bicarbonate	**15**		mg/L	3.0		Water	1.3	379366	08/15/25	08/15/25	WWC
Carbonate	**8.6**		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Hydroxide	ND		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Method: SM2510B Prep Method: METHOD											
Specific Conductance	**690**		umhos/cm	1.0		Water	1	378458	08/07/25	08/07/25	ARM
Method: SM2540C Prep Method: METHOD											

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-004 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Total Dissolved Solids	**340**		mg/L	20		Water	2	378824	08/11/25	08/12/25	CDR
Method: SM5220D Prep Method: METHOD											
Chemical Oxygen Demand	ND		mg/L	4.0	2.0	Water	1	378771	08/09/25	08/09/25	ARM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BH-22	Lab ID: 539231-005	Collected: 08/04/25 15:00

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 218.6 Prep Method: METHOD											
Hexavalent Chromium	**2.5**		ug/L	1.0	0.024	Water	1	379606	08/19/25 09:45	08/19/25 12:39	BPH
Method: EPA 245.1 Prep Method: EPA 245.1											
Mercury	ND		ug/L	0.40	0.032	Water	1	378401	08/06/25	08/06/25	MLL
Method: EPA 300.0 Prep Method: METHOD											
Fluoride	**5.5**		mg/L	0.20	0.073	Water	1	379542	08/18/25 16:50	08/18/25 21:39	KUM
Chloride	**370**		mg/L	2.0	0.54	Water	2	379542	08/18/25 16:50	08/19/25 12:34	KUM
Nitrogen, Nitrite	**0.05**	J	mg/L	0.10	0.02	Water	1	378383	08/05/25 18:48	08/06/25 03:53	KUM
Nitrogen, Nitrate	**0.33**		mg/L	0.10	0.05	Water	1	378383	08/05/25 18:48	08/06/25 03:53	KUM
Sulfate	**42**		mg/L	1.0	0.25	Water	1	378383	08/05/25 18:48	08/06/25 03:53	KUM
Method: EPA 420.1 Prep Method: METHOD											
Total Phenolics	ND		mg/L	0.010	0.0047	Water	1	379506	08/18/25	08/18/25	LVL
Method: EPA 6010B Prep Method: 200.7 DirectAnalysis											
Calcium	**27**		mg/L	0.10	0.048	Filtrate	1	379685	08/19/25	08/19/25	CAP
Sodium	**220**		mg/L	0.50	0.21	Filtrate	1	379685	08/19/25	08/19/25	CAP
Method: EPA 6010B Prep Method: EPA 3015A											
Boron	**0.067**		mg/L	0.050	0.0062	Filtrate	1	378385	08/05/25	08/05/25	CAP
Iron	ND		mg/L	0.10	0.041	Filtrate	1	378385	08/05/25	08/05/25	CAP
Magnesium	**0.032**	J	mg/L	0.10	0.025	Filtrate	1	378385	08/05/25	08/05/25	CAP
Potassium	**0.99**		mg/L	0.50	0.42	Filtrate	1	378385	08/05/25	08/05/25	CAP
Method: EPA 6020 Prep Method: EPA 3015A											
Antimony	ND		ug/L	2.0	0.31	Water	1	378404	08/06/25	08/12/25	DXC
Arsenic	**22**		ug/L	2.0	0.21	Water	1	378404	08/06/25	08/08/25	DXC
Barium	**37**		ug/L	5.0	0.33	Water	1	378404	08/06/25	08/08/25	DXC
Beryllium	ND		ug/L	1.0	0.076	Water	1	378404	08/06/25	08/12/25	DXC
Cadmium	**0.36**	J	ug/L	1.0	0.11	Water	1	378404	08/06/25	08/08/25	DXC
Chromium	**1.8**	J	ug/L	5.0	0.34	Water	1	378404	08/06/25	08/08/25	DXC
Cobalt	ND		ug/L	1.0	0.068	Water	1	378404	08/06/25	08/08/25	DXC
Copper	ND		ug/L	3.0	0.71	Water	1	378404	08/06/25	08/08/25	DXC
Lead	ND		ug/L	5.0	0.16	Water	1	378404	08/06/25	08/08/25	DXC
Manganese	ND		ug/L	10	1.7	Water	1	378404	08/06/25	08/08/25	DXC
Nickel	ND		ug/L	5.0	1.3	Water	1	378404	08/06/25	08/08/25	DXC
Selenium	ND		ug/L	4.0	1.6	Water	1	378404	08/06/25	08/08/25	DXC
Tin	**0.417**	J	ug/L	5.00	0.328	Water	1	378404	08/06/25	08/08/25	DXC
Silver	ND		ug/L	5.0	0.50	Water	1	378404	08/06/25	08/08/25	DXC
Thallium	ND		ug/L	1.0	0.42	Water	1	378404	08/06/25	08/08/25	DXC

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Vanadium	**180**		ug/L	5.0	0.26	Water	1	378404	08/06/25	08/08/25	DXC
Zinc	ND		ug/L	10	7.6	Water	1	378404	08/06/25	08/08/25	DXC
Method: EPA 8081A Prep Method: EPA 3510C											
alpha-BHC	ND		ug/L	0.05	0.009	Water	0.94	378324	08/06/25	08/06/25	MES
beta-BHC	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
gamma-BHC	ND		ug/L	0.05	0.008	Water	0.94	378324	08/06/25	08/06/25	MES
delta-BHC	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Heptachlor	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Aldrin	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Heptachlor epoxide	ND		ug/L	0.05	0.009	Water	0.94	378324	08/06/25	08/06/25	MES
Endosulfan I	ND		ug/L	0.05	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Dieldrin	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
4,4'-DDE	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Endrin	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Endosulfan II	ND		ug/L	0.09	0.02	Water	0.94	378324	08/06/25	08/06/25	MES
Endosulfan sulfate	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
4,4'-DDD	ND		ug/L	0.09	0.01	Water	0.94	378324	08/06/25	08/06/25	MES
Endrin aldehyde	ND		ug/L	0.09	0.02	Water	0.94	378324	08/06/25	08/06/25	MES
4,4'-DDT	ND		ug/L	0.09	0.03	Water	0.94	378324	08/06/25	08/06/25	MES
Chlordane (Technical)	ND		ug/L	0.9	0.2	Water	0.94	378324	08/06/25	08/06/25	MES
Methoxychlor	ND		ug/L	0.5	0.03	Water	0.94	378324	08/06/25	08/06/25	MES
Toxaphene	ND		ug/L	0.9	0.4	Water	0.94	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX	94%		%REC	29-120		Water	0.94	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl	116%		%REC	33-132		Water	0.94	378324	08/06/25	08/06/25	MES
Method: EPA 8082 Prep Method: EPA 3510C											
Aroclor-1016	ND		ug/L	0.47	0.29	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1221	ND		ug/L	0.47	0.44	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1232	ND		ug/L	0.47	0.26	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1242	ND		ug/L	0.47	0.27	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1248	ND		ug/L	0.47	0.22	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1254	ND		ug/L	0.47	0.25	Water	0.94	378324	08/06/25	08/06/25	MES
Aroclor-1260	ND		ug/L	0.47	0.31	Water	0.94	378324	08/06/25	08/06/25	MES
Surrogates				**Limits**							
TCMX (PCB)	96%		%REC	28-120		Water	0.94	378324	08/06/25	08/06/25	MES
Decachlorobiphenyl (PCB)	110%		%REC	28-138		Water	0.94	378324	08/06/25	08/06/25	MES
Method: EPA 8260B Prep Method: EPA 5030B											
Chloroprene	ND		ug/L	200	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
3-Chloropropene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Ethyl methacrylate	ND		ug/L	50	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl acrylonitrile	ND		ug/L	35	1.3	Water	1	378520	08/07/25	08/07/25	LYZ
Methyl methacrylate	ND		ug/L	5.0	2.4	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Acetate	ND		ug/L	50	2.5	Water	1	378520	08/07/25	08/07/25	LYZ
Acrolein	ND		ug/L	200	1.6	Water	1	378520	08/07/25	08/07/25	LYZ
Acrylonitrile	ND		ug/L	10	0.4	Water	1	378520	08/07/25	08/07/25	LYZ
Freon 12	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Chloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Vinyl Chloride	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Bromomethane	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
Trichlorofluoromethane	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Iodomethane	ND		ug/L	10		Water	1	378520	08/07/25	08/07/25	LYZ
Acetone	ND		ug/L	100	8.8	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Methylene Chloride	ND		ug/L	10	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Disulfide	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloroethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
2-Butanone	ND		ug/L	10	0.9	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
2,2-Dichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Chloroform	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromochloromethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Carbon Tetrachloride	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Benzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Trichloroethene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloropropane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Bromodichloromethane	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromomethane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	Water	1	378520	08/07/25	08/07/25	LYZ
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
Toluene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
2-Hexanone	ND		ug/L	10	0.6	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichloropropane	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Tetrachloroethene	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
Dibromochloromethane	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
Chlorobenzene	ND		ug/L	5.0	0.05	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Ethylbenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
m,p-Xylenes	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
o-Xylene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Styrene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
Bromoform	ND		ug/L	5.0	0.08	Water	1	378520	08/07/25	08/07/25	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	Water	1	378520	08/07/25	08/07/25	LYZ
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	Water	1	378520	08/07/25	08/07/25	LYZ
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	Water	1	378520	08/07/25	08/07/25	LYZ
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	Water	1	378520	08/07/25	08/07/25	LYZ
Naphthalene	ND		ug/L	5.0	0.3	Water	1	378520	08/07/25	08/07/25	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	Water	1	378520	08/07/25	08/07/25	LYZ
Xylene (total)	ND		ug/L	5.0		Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Acetonitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Isobutyl Alcohol	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ
TIC:Propionitrile	ND		ug/L			Water	1	378520	08/07/25	08/07/25	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Surrogates				**Limits**							
Dibromofluoromethane	103%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
1,2-Dichloroethane-d4	101%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Toluene-d8	93%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Bromofluorobenzene	98%		%REC	70-130		Water	1	378520	08/07/25	08/07/25	LYZ
Method: EPA 8270C Prep Method: EPA 3510C											
N-Nitrosodimethylamine	ND		ug/L	9.4	2.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenol	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/L	23	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Chlorophenol	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzyl alcohol	ND		ug/L	9.4	4.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Methylphenol	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/L	9.4	4.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
3-,4-Methylphenol	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/L	9.4	3.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachloroethane	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Nitrobenzene	ND		ug/L	23	7.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Isophorone	ND		ug/L	9.4	3.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Nitrophenol	ND		ug/L	9.4	4.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dimethylphenol	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dichlorophenol	ND		ug/L	9.4	4.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chloroaniline	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorobutadiene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chloro-3-methylphenol	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Methylnaphthalene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorocyclopentadiene	ND		ug/L	23	9.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,6-Trichlorophenol	ND		ug/L	9.4	4.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,5-Trichlorophenol	ND		ug/L	9.4	3.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Chloronaphthalene	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Nitroaniline	ND		ug/L	47	3.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dimethylphthalate	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
Acenaphthylene	ND		ug/L	9.4	4.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,6-Dinitrotoluene	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
3-Nitroaniline	ND		ug/L	9.4	3.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Acenaphthene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dinitrophenol	ND		ug/L	47	7.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Nitrophenol	ND		ug/L	9.4	5.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dibenzofuran	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4-Dinitrotoluene	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Diethylphthalate	ND		ug/L	9.4	2.9	Water	0.94	378398	08/06/25	08/08/25	ZFA
Fluorene	ND		ug/L	9.4	3.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/L	9.4	3.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Nitroaniline	ND		ug/L	9.4	3.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/L	47	12	Water	0.94	378398	08/06/25	08/08/25	ZFA
N-Nitrosodiphenylamine	ND		ug/L	9.4	5.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	9.4	3.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
4-Bromophenyl-phenylether	ND		ug/L	9.4	3.7	Water	0.94	378398	08/06/25	08/08/25	ZFA
Hexachlorobenzene	ND		ug/L	9.4	3.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Pentachlorophenol	ND		ug/L	23	3.0	Water	0.94	378398	08/06/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Phenanthrene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Anthracene	ND		ug/L	9.4	2.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Di-n-butylphthalate	ND		ug/L	9.4	1.6	Water	0.94	378398	08/06/25	08/08/25	ZFA
Fluoranthene	ND		ug/L	9.4	1.5	Water	0.94	378398	08/06/25	08/08/25	ZFA
Pyrene	ND		ug/L	9.4	1.8	Water	0.94	378398	08/06/25	08/08/25	ZFA
Butylbenzylphthalate	ND		ug/L	9.4	2.0	Water	0.94	378398	08/06/25	08/08/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/L	23	3.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(a)anthracene	ND		ug/L	9.4	0.93	Water	0.94	378398	08/06/25	08/08/25	ZFA
Chrysene	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/L	9.4	3.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Di-n-octylphthalate	ND		ug/L	9.4	1.2	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(b)fluoranthene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(k)fluoranthene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(a)pyrene	ND		ug/L	9.4	1.3	Water	0.94	378398	08/06/25	08/08/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/L	9.4	1.1	Water	0.94	378398	08/06/25	08/08/25	ZFA
Dibenz(a,h)anthracene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
Benzo(g,h,i)perylene	ND		ug/L	9.4	1.4	Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,3,5-Trinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1,4-Naphthoquinone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:1-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2,6-Dichlorophenol	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2-Acetylaminofluorene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:2-Naphthylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:3,3'-Dimethylbenzidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:3-Methylcholanthrene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:4-Aminobiphenyl	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:5-Nitro-o-toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Acetophenone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Chlorobenzilate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Diallate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Dimethoate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Dinoseb	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Diphenylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Disulfoton	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Ethyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Famphur	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Hexachloropropene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Isodrin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Isosafrole	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Kepone	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methapyrilene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methyl methanesulfonate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Methyl parathion	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosodiethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosomethylethylamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosopiperidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:N-Nitrosopyrrolidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
TIC:Parathion ethyl	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pentachlorobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pentachloronitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Phenacetin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Phorate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Pronamide	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Safrole	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:Thionazin	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:m-Dinitrobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:o-Toluidine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
TIC:p-Phenylenediamine	ND		ug/L			Water	0.94	378398	08/06/25	08/08/25	ZFA
Surrogates				**Limits**							
2-Fluorophenol	45%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Phenol-d6	28%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
2,4,6-Tribromophenol	81%		%REC	15-140		Water	0.94	378398	08/06/25	08/08/25	ZFA
Nitrobenzene-d5	78%		%REC	15-123		Water	0.94	378398	08/06/25	08/08/25	ZFA
2-Fluorobiphenyl	73%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Terphenyl-d14	89%		%REC	15-120		Water	0.94	378398	08/06/25	08/08/25	ZFA
Method: Ion Balance											
Anions	**12**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Cations	**11**		meq/L	0.10		Water	1	379631	08/20/25	08/20/25	AXS
Method: SM 2340B Prep Method: EPA 3015A											
Hardness as CaCO3	**68**		mg/L	3.3		Water	1	378404	08/06/25	08/08/25	SMP
Method: SM 4500-CN-E Prep Method: METHOD											
Cyanide	ND		mg/L	0.0050	0.0021	Water	0.5	378730	08/08/25	08/11/25	CKN
Method: SM 4500-P-B2-E											
Total Phosphate as P	ND		mg/L	0.020	0.010	Water	1	378442	08/06/25	08/11/25	JAK
Total Phosphate as PO4	ND		mg/L	0.060	0.031	Water	1	378442	08/06/25	08/11/25	JAK
Method: SM 4500-P-B5-E											
Phosphorus	ND		mg/L	0.020	0.012	Water	1	378441	08/06/25	08/13/25	JAK
Method: SM 4500-S2-D Prep Method: METHOD											
Sulfide	ND		mg/L	0.10		Water	1	378661	08/07/25	08/07/25	TXC
Method: SM 5310B Prep Method: SM 5310B											
Total Organic Carbon	**0.79**	J	mg/L	1.0	0.24	Water	1	379401	08/15/25	08/18/25	CKN
Method: SM2320B Prep Method: METHOD											
Alkalinity, Total as CaCO3	**14**		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Bicarbonate	**9.1**		mg/L	3.0		Water	1.3	379366	08/15/25	08/15/25	WWC
Carbonate	**4.1**		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Hydroxide	ND		mg/L	2.5		Water	1.3	379366	08/15/25	08/15/25	WWC
Method: SM2510B Prep Method: METHOD											
Specific Conductance	**1,330**		umhos/cm	1.0		Water	1	378458	08/07/25	08/07/25	ARM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-005 Analyte	Result	Qual	Units	RL	MDL	Matrix	DF	Batch	Prepared	Analyzed	Chemist
Method: SM2540C Prep Method: METHOD											
Total Dissolved Solids	**720**		mg/L	20		Water	2	378824	08/11/25	08/12/25	CDR
Method: SM5220D Prep Method: METHOD											
Chemical Oxygen Demand	ND		mg/L	4.0	2.0	Water	1	378771	08/09/25	08/09/25	ARM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BH-11 TB	Lab ID: 539231-006	Collected: 08/04/25 08:50
	Matrix: Water	

539231-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
Chloroprene	ND		ug/L	200	2.7	1	379463	08/17/25	08/17/25	ZST
3-Chloropropene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Ethyl methacrylate	ND		ug/L	50	3.9	1	379463	08/17/25	08/17/25	ZST
Methyl acrylonitrile	ND		ug/L	35	4.2	1	379463	08/17/25	08/17/25	ZST
Methyl methacrylate	ND		ug/L	5.0	0.4	1	379463	08/17/25	08/17/25	ZST
Vinyl Acetate	ND		ug/L	50	3.2	1	379463	08/17/25	08/17/25	ZST
Acrolein	ND	H	ug/L	200	2.6	1	379463	08/17/25	08/17/25	ZST
Acrylonitrile	ND	H	ug/L	10	0.7	1	379463	08/17/25	08/17/25	ZST
Freon 12	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloromethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Vinyl Chloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichlorofluoromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Iodomethane	ND		ug/L	10		1	379463	08/17/25	08/17/25	ZST
Acetone	ND		ug/L	100	14	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Methylene Chloride	ND		ug/L	10	0.2	1	379463	08/17/25	08/17/25	ZST
Carbon Disulfide	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
2-Butanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2,2-Dichloropropane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloroform	ND		ug/L	5.0	0.08	1	379463	08/17/25	08/17/25	ZST
Bromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1,1-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Carbon Tetrachloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Benzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloropropane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Bromodichloromethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Dibromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
4-Methyl-2-Pentanone	ND		ug/L	10	1.0	1	379463	08/17/25	08/17/25	ZST
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Toluene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
1,1,2-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2-Hexanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichloropropane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Tetrachloroethene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Dibromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-006 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Ethylbenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
m,p-Xylenes	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
o-Xylene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Styrene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromoform	ND		ug/L	5.0	0.06	1	379463	08/17/25	08/17/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
1,2-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Naphthalene	ND		ug/L	5.0	0.6	1	379463	08/17/25	08/17/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Xylene (total)	ND		ug/L	5.0		1	379463	08/17/25	08/17/25	ZST
TIC:Acetonitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Isobutyl Alcohol	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Propionitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
Surrogates				**Limits**						
Dibromofluoromethane	105%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane-d4	103%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Toluene-d8	100%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Bromofluorobenzene	96%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BL-03 TB	Lab ID: 539231-007	Collected: 08/04/25 10:15
	Matrix: Water	

539231-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
Chloroprene	ND		ug/L	200	2.7	1	379463	08/17/25	08/17/25	ZST
3-Chloropropene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Ethyl methacrylate	ND		ug/L	50	3.9	1	379463	08/17/25	08/17/25	ZST
Methyl acrylonitrile	ND		ug/L	35	4.2	1	379463	08/17/25	08/17/25	ZST
Methyl methacrylate	ND		ug/L	5.0	0.4	1	379463	08/17/25	08/17/25	ZST
Vinyl Acetate	ND		ug/L	50	3.2	1	379463	08/17/25	08/17/25	ZST
Acrolein	ND	H	ug/L	200	2.6	1	379463	08/17/25	08/17/25	ZST
Acrylonitrile	ND	H	ug/L	10	0.7	1	379463	08/17/25	08/17/25	ZST
Freon 12	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloromethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Vinyl Chloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichlorofluoromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Iodomethane	ND		ug/L	10		1	379463	08/17/25	08/17/25	ZST
Acetone	ND		ug/L	100	14	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Methylene Chloride	ND		ug/L	10	0.2	1	379463	08/17/25	08/17/25	ZST
Carbon Disulfide	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
2-Butanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2,2-Dichloropropane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloroform	ND		ug/L	5.0	0.08	1	379463	08/17/25	08/17/25	ZST
Bromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1,1-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Carbon Tetrachloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Benzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloropropane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Bromodichloromethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Dibromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
4-Methyl-2-Pentanone	ND		ug/L	10	1.0	1	379463	08/17/25	08/17/25	ZST
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Toluene	**0.1**	J	ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
1,1,2-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2-Hexanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichloropropane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Tetrachloroethene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Dibromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 539231

539231-007 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Ethylbenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
m,p-Xylenes	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
o-Xylene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Styrene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromoform	ND		ug/L	5.0	0.06	1	379463	08/17/25	08/17/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
1,2-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Naphthalene	ND		ug/L	5.0	0.6	1	379463	08/17/25	08/17/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Xylene (total)	ND		ug/L	5.0		1	379463	08/17/25	08/17/25	ZST
TIC:Acetonitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Isobutyl Alcohol	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Propionitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
Surrogates				**Limits**						
Dibromofluoromethane	105%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane-d4	100%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Toluene-d8	98%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Bromofluorobenzene	97%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BD-04 TB	Lab ID: 539231-008	Collected: 08/04/25 12:00
	Matrix: Water	

539231-008 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
Chloroprene	ND		ug/L	200	2.7	1	379463	08/17/25	08/17/25	ZST
3-Chloropropene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Ethyl methacrylate	ND		ug/L	50	3.9	1	379463	08/17/25	08/17/25	ZST
Methyl acrylonitrile	ND		ug/L	35	4.2	1	379463	08/17/25	08/17/25	ZST
Methyl methacrylate	ND		ug/L	5.0	0.4	1	379463	08/17/25	08/17/25	ZST
Vinyl Acetate	ND		ug/L	50	3.2	1	379463	08/17/25	08/17/25	ZST
Acrolein	ND	H	ug/L	200	2.6	1	379463	08/17/25	08/17/25	ZST
Acrylonitrile	ND	H	ug/L	10	0.7	1	379463	08/17/25	08/17/25	ZST
Freon 12	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloromethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Vinyl Chloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichlorofluoromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Iodomethane	ND		ug/L	10		1	379463	08/17/25	08/17/25	ZST
Acetone	ND		ug/L	100	14	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Methylene Chloride	ND		ug/L	10	0.2	1	379463	08/17/25	08/17/25	ZST
Carbon Disulfide	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
2-Butanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2,2-Dichloropropane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloroform	ND		ug/L	5.0	0.08	1	379463	08/17/25	08/17/25	ZST
Bromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1,1-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Carbon Tetrachloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Benzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloropropane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Bromodichloromethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Dibromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
4-Methyl-2-Pentanone	ND		ug/L	10	1.0	1	379463	08/17/25	08/17/25	ZST
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Toluene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
1,1,2-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2-Hexanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichloropropane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Tetrachloroethene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Dibromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 539231

539231-008 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Ethylbenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
m,p-Xylenes	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
o-Xylene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Styrene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromoform	ND		ug/L	5.0	0.06	1	379463	08/17/25	08/17/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
1,2-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Naphthalene	ND		ug/L	5.0	0.6	1	379463	08/17/25	08/17/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Xylene (total)	ND		ug/L	5.0		1	379463	08/17/25	08/17/25	ZST
TIC:Acetonitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Isobutyl Alcohol	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Propionitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
Surrogates				**Limits**						
Dibromofluoromethane	105%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane-d4	101%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Toluene-d8	97%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Bromofluorobenzene	95%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

Sample ID: BH-22 TB	Lab ID: 539231-009	Collected: 08/04/25 15:00
	Matrix: Water	

539231-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
Chloroprene	ND		ug/L	200	2.7	1	379463	08/17/25	08/17/25	ZST
3-Chloropropene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Ethyl methacrylate	ND		ug/L	50	3.9	1	379463	08/17/25	08/17/25	ZST
Methyl acrylonitrile	ND		ug/L	35	4.2	1	379463	08/17/25	08/17/25	ZST
Methyl methacrylate	ND		ug/L	5.0	0.4	1	379463	08/17/25	08/17/25	ZST
Vinyl Acetate	ND		ug/L	50	3.2	1	379463	08/17/25	08/17/25	ZST
Acrolein	ND	H	ug/L	200	2.6	1	379463	08/17/25	08/17/25	ZST
Acrylonitrile	ND	H	ug/L	10	0.7	1	379463	08/17/25	08/17/25	ZST
Freon 12	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloromethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Vinyl Chloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichlorofluoromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Iodomethane	ND		ug/L	10		1	379463	08/17/25	08/17/25	ZST
Acetone	ND		ug/L	100	14	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Methylene Chloride	**0.5**	J	ug/L	10	0.2	1	379463	08/17/25	08/17/25	ZST
Carbon Disulfide	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloroethane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
2-Butanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2,2-Dichloropropane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Chloroform	ND		ug/L	5.0	0.08	1	379463	08/17/25	08/17/25	ZST
Bromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1,1-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,1-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Carbon Tetrachloride	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Benzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Trichloroethene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2-Dichloropropane	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
Bromodichloromethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Dibromomethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
4-Methyl-2-Pentanone	ND		ug/L	10	1.0	1	379463	08/17/25	08/17/25	ZST
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Toluene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.09	1	379463	08/17/25	08/17/25	ZST
1,1,2-Trichloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
2-Hexanone	ND		ug/L	10	1.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichloropropane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Tetrachloroethene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
Dibromochloromethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Chlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 539231

539231-009 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.07	1	379463	08/17/25	08/17/25	ZST
Ethylbenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
m,p-Xylenes	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
o-Xylene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Styrene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
Bromoform	ND		ug/L	5.0	0.06	1	379463	08/17/25	08/17/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
1,3-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	1	379463	08/17/25	08/17/25	ZST
1,2-Dichlorobenzene	ND		ug/L	5.0	0.1	1	379463	08/17/25	08/17/25	ZST
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Naphthalene	ND		ug/L	5.0	0.6	1	379463	08/17/25	08/17/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.3	1	379463	08/17/25	08/17/25	ZST
Xylene (total)	ND		ug/L	5.0		1	379463	08/17/25	08/17/25	ZST
TIC:Acetonitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Isobutyl Alcohol	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
TIC:Propionitrile	ND		ug/L			1	379463	08/17/25	08/17/25	ZST
Surrogates				**Limits**						
Dibromofluoromethane	106%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
1,2-Dichloroethane-d4	101%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Toluene-d8	100%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST
Bromofluorobenzene	97%		%REC	70-130		1	379463	08/17/25	08/17/25	ZST

H Holding time was exceeded
J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1285729** **Batch: 379606**
Matrix: Water **Method: EPA 218.6** **Prep Method: METHOD**

QC1285729 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Hexavalent Chromium	ND		ug/L	1.0	0.024	08/19/25 09:45	08/19/25 10:00

Type: Lab Control Sample **Lab ID: QC1285730** **Batch: 379606**
Matrix: Water **Method: EPA 218.6** **Prep Method: METHOD**

QC1285730 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Hexavalent Chromium	52.41	50.00	ug/L	105%		90-110

Type: Matrix Spike **Lab ID: QC1285731** **Batch: 379606**
Matrix (Source ID): Water (539231-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285731 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Hexavalent Chromium	51.86	1.065	50.00	ug/L	102%		85-115	1

Type: Matrix Spike Duplicate **Lab ID: QC1285732** **Batch: 379606**
Matrix (Source ID): Water (539231-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285732 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Hexavalent Chromium	51.62	1.065	50.00	ug/L	101%		85-115	0	20	1

Type: Matrix Spike **Lab ID: QC1285733** **Batch: 379606**
Matrix (Source ID): Water (539350-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285733 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Hexavalent Chromium	51.30	0.7327	50.00	ug/L	101%		85-115	1

Type: Matrix Spike Duplicate **Lab ID: QC1285734** **Batch: 379606**
Matrix (Source ID): Water (539350-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285734 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Hexavalent Chromium	51.57	0.7327	50.00	ug/L	102%		85-115	1	20	1

Type: Blank **Lab ID: QC1281402** **Batch: 378401**
Matrix: Water **Method: EPA 245.1** **Prep Method: EPA 245.1**

QC1281402 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.40	0.032	08/06/25	08/06/25

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1281403**	**Batch:**	**378401**
Matrix:	**Water**	**Method:**	**EPA 245.1**	**Prep Method:**	**EPA 245.1**

QC1281403 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	4.987	5.000	ug/L	100%		85-115

Type:	**Matrix Spike**	**Lab ID:**	**QC1281414**	**Batch:**	**378401**
Matrix (Source ID):	**Water (539271-008)**	**Method:**	**EPA 245.1**	**Prep Method:**	**EPA 245.1**

QC1281414 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	2.336	ND	5.000	ug/L	47%	*	75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1281415**	**Batch:**	**378401**
Matrix (Source ID):	**Water (539271-008)**	**Method:**	**EPA 245.1**	**Prep Method:**	**EPA 245.1**

QC1281415 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	2.367	ND	5.000	ug/L	47%	*	75-125	1	20	1

Type:	**Matrix Spike**	**Lab ID:**	**QC1281416**	**Batch:**	**378401**
Matrix (Source ID):	**Water (539231-002)**	**Method:**	**EPA 245.1**	**Prep Method:**	**EPA 245.1**

QC1281416 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	5.043	ND	5.000	ug/L	101%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1281417**	**Batch:**	**378401**
Matrix (Source ID):	**Water (539231-002)**	**Method:**	**EPA 245.1**	**Prep Method:**	**EPA 245.1**

QC1281417 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	4.998	ND	5.000	ug/L	100%		75-125	1	20	1

Type:	**Blank**	**Lab ID:**	**QC1281323**	**Batch:**	**378383**
Matrix:	**Water**	**Method:**	**EPA 300.0**	**Prep Method:**	**METHOD**

QC1281323 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloride	ND		mg/L	1.0	0.27	08/05/25 18:48	08/06/25 13:59
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/05/25 18:48	08/06/25 13:59
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/05/25 18:48	08/06/25 13:59
Sulfate	ND		mg/L	1.0	0.25	08/05/25 18:48	08/06/25 13:59

ENTHALPY ANALYTICAL

Batch QC

Type:	Lab Control Sample	Lab ID:	QC1281324	Batch:	378383
Matrix:	Water	Method:	EPA 300.0	Prep Method:	METHOD

QC1281324 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chloride	48.16	50.00	mg/L	96%		90-110
Nitrogen, Nitrite	4.514	4.567	mg/L	99%		90-110
Nitrogen, Nitrate	4.689	4.518	mg/L	104%		90-110
Sulfate	25.95	25.00	mg/L	104%		90-110

Type:	Matrix Spike	Lab ID:	QC1281325	Batch:	378383
Matrix (Source ID):	Water (539231-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC1281325 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chloride	209.1	117.2	100.0	mg/L	92%	E	80-123	1
Nitrogen, Nitrite	9.239	ND	9.134	mg/L	101%		80-122	1
Nitrogen, Nitrate	25.33	17.57	9.036	mg/L	86%	E	80-123	1
Sulfate	94.90	45.78	50.00	mg/L	98%		79-124	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1281326	Batch:	378383
Matrix (Source ID):	Water (539231-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC1281326 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chloride	208.4	117.2	100.0	mg/L	91%	E	80-123		20	1
Nitrogen, Nitrite	9.186	ND	9.134	mg/L	101%		80-122	1	21	1
Nitrogen, Nitrate	25.26	17.57	9.036	mg/L	85%	E	80-123		20	1
Sulfate	94.57	45.78	50.00	mg/L	98%		79-124	0	20	1

Type:	Blank	Lab ID:	QC1285480	Batch:	379542
Matrix:	Drinking Water	Method:	EPA 300.0	Prep Method:	METHOD

QC1285480 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.20	0.073	08/18/25 16:50	08/18/25 18:17
Chloride	ND		mg/L	1.0	0.27	08/18/25 16:50	08/18/25 18:17

Type:	Lab Control Sample	Lab ID:	QC1285481	Batch:	379542
Matrix:	Drinking Water	Method:	EPA 300.0	Prep Method:	METHOD

QC1285481 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	9.740	10.00	mg/L	97%		90-110
Chloride	46.11	50.00	mg/L	92%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1285482	Batch:	379542
Matrix (Source ID):	Water (539231-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC1285482 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	30.06	0.9534	20.00	mg/L	146%	*	80-129	1
Chloride	244.6	115.4	100.0	mg/L	129%	E,*	80-123	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1285483	Batch:	379542
Matrix (Source ID):	Water (539231-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC1285483 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	28.17	0.9534	20.00	mg/L	136%	*	80-129	7	21	1
Chloride	236.7	115.4	100.0	mg/L	121%	E	80-123		20	1

Type:	Blank	Lab ID:	QC1283409	Batch:	378976
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1283409 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Phenolics	ND		mg/L	0.010	0.0047	08/12/25	08/12/25

Type:	Lab Control Sample	Lab ID:	QC1283410	Batch:	378976
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1283410 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Phenolics	0.07500	0.08000	mg/L	94%		80-120

Type:	Lab Control Sample Duplicate	Lab ID:	QC1283411	Batch:	378976
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1283411 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Total Phenolics	0.07400	0.08000	mg/L	93%		80-120	1	20

Type:	Blank	Lab ID:	QC1285401	Batch:	379506
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1285401 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Phenolics	ND		mg/L	0.010	0.0047	08/18/25	08/18/25

Type:	Lab Control Sample	Lab ID:	QC1285402	Batch:	379506
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1285402 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Phenolics	0.07300	0.08000	mg/L	91%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1285403**	**Batch:**	**379506**
Matrix:	**Water**	**Method:**	**EPA 420.1**	**Prep Method:**	**METHOD**

QC1285403 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Total Phenolics	0.07500	0.08000	mg/L	94%		80-120	3	20

Type:	**Blank**	**Lab ID:**	**QC1281327**	**Batch:**	**378385**
Matrix:	**Filtrate**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3015A**

QC1281327 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.0062	08/05/25	08/05/25
Calcium	ND		mg/L	0.57	0.57	08/05/25	08/05/25
Iron	ND		mg/L	0.041	0.041	08/05/25	08/05/25
Magnesium	ND		mg/L	0.10	0.025	08/05/25	08/05/25
Potassium	ND		mg/L	0.50	0.42	08/05/25	08/05/25
Sodium	ND		mg/L	0.50	0.34	08/05/25	08/05/25

Type:	**Lab Control Sample**	**Lab ID:**	**QC1281328**	**Batch:**	**378385**
Matrix:	**Filtrate**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3015A**

QC1281328 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	0.3498	0.4000	mg/L	87%		80-120
Calcium	17.90	20.40	mg/L	88%		80-120
Iron	0.3799	0.4000	mg/L	95%		80-120
Magnesium	18.39	20.40	mg/L	90%		80-120
Potassium	20.61	24.00	mg/L	86%		80-120
Sodium	17.64	20.40	mg/L	86%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC1281329**	**Batch:**	**378385**
Matrix (Source ID):	**Filtrate (539231-002)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3015A**

QC1281329 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	0.4782	0.1310	0.4000	mg/L	87%		75-125	1
Calcium	33.08	16.33	20.40	mg/L	82%		75-125	1
Iron	0.3773	ND	0.4000	mg/L	94%		75-125	1
Magnesium	19.28	1.132	20.40	mg/L	89%		75-125	1
Potassium	22.72	1.244	24.00	mg/L	89%		75-125	1
Sodium	295.9	294.7	20.40	mg/L	6%	NM	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1281330	Batch:	378385
Matrix (Source ID):	Filtrate (539231-002)	Method:	EPA 6010B	Prep Method:	EPA 3015A

QC1281330 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Boron	0.4827	0.1310	0.4000	mg/L	88%		75-125	1	20	1
Calcium	33.47	16.33	20.40	mg/L	84%		75-125	1	20	1
Iron	0.3946	ND	0.4000	mg/L	99%		75-125	4	22	1
Magnesium	19.45	1.132	20.40	mg/L	90%		75-125	1	20	1
Potassium	23.53	1.244	24.00	mg/L	93%		75-125	4	20	1
Sodium	299.2	294.7	20.40	mg/L	22%	NM	75-125	1	20	1

Type:	Serial Dilution	Lab ID:	QC1281369	Batch:	378385
Matrix (Source ID):	Filtrate (539231-002)	Method:	EPA 6010B	Prep Method:	EPA 3015A

QC1281369 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Boron	0.1293	0.1310	mg/L	J			5
Calcium	16.59	16.33	mg/L				5
Iron	ND	ND	mg/L				5
Magnesium	1.108	1.132	mg/L				5
Potassium	ND	1.244	mg/L				5
Sodium	300.1	294.7	mg/L				5

Type:	Blank	Lab ID:	QC1285936	Batch:	379685
Matrix:	Filtrate	Method:	EPA 6010B	Prep Method:	200.7 DirectAnalysis

QC1285936 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Calcium	ND		mg/L	0.10	0.048	08/19/25	08/19/25
Sodium	ND		mg/L	0.50	0.21	08/19/25	08/19/25

Type:	Lab Control Sample	Lab ID:	QC1285937	Batch:	379685
Matrix:	Filtrate	Method:	EPA 6010B	Prep Method:	200.7 DirectAnalysis

QC1285937 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Calcium	20.03	20.40	mg/L	98%		80-120
Sodium	20.68	20.40	mg/L	101%		80-120

Type:	Matrix Spike	Lab ID:	QC1285938	Batch:	379685
Matrix (Source ID):	Filtrate (539231-005)	Method:	EPA 6010B	Prep Method:	200.7 DirectAnalysis

QC1285938 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Calcium	46.34	26.80	20.40	mg/L	96%		75-125	1
Sodium	241.7	223.6	20.40	mg/L	89%	NM	75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1285939**	**Batch:**	**379685**
Matrix (Source ID):	**Filtrate (539231-005)**	**Method:**	**EPA 6010B**	**Prep Method:**	**200.7 DirectAnalysis**

QC1285939 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Calcium	46.13	26.80	20.40	mg/L	95%		75-125	0	20	1
Sodium	239.9	223.6	20.40	mg/L	80%	NM	75-125	1	20	1

Type:	**Serial Dilution**	**Lab ID:**	**QC1285941**	**Batch:**	**379685**
Matrix (Source ID):	**Filtrate (539231-005)**	**Method:**	**EPA 6010B**	**Prep Method:**	**200.7 DirectAnalysis**

QC1285941 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Calcium	26.95	26.80	mg/L				5
Sodium	232.6	223.6	mg/L				5

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1281124	Batch: 378324
Matrix: Water		

QC1281124 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3510C							
alpha-BHC	ND		ug/L	0.05	0.02	08/05/25	08/06/25
beta-BHC	ND		ug/L	0.05	0.02	08/05/25	08/06/25
gamma-BHC	ND		ug/L	0.05	0.02	08/05/25	08/06/25
delta-BHC	ND		ug/L	0.05	0.02	08/05/25	08/06/25
Heptachlor	ND		ug/L	0.05	0.01	08/05/25	08/06/25
Aldrin	ND		ug/L	0.05	0.02	08/05/25	08/06/25
Heptachlor epoxide	ND		ug/L	0.05	0.02	08/05/25	08/06/25
Endosulfan I	ND		ug/L	0.05	0.02	08/05/25	08/06/25
Dieldrin	ND		ug/L	0.1	0.01	08/05/25	08/06/25
4,4'-DDE	ND		ug/L	0.1	0.02	08/05/25	08/06/25
Endrin	ND		ug/L	0.1	0.02	08/05/25	08/06/25
Endosulfan II	ND		ug/L	0.1	0.02	08/05/25	08/06/25
Endosulfan sulfate	ND		ug/L	0.1	0.02	08/05/25	08/06/25
4,4'-DDD	ND		ug/L	0.1	0.02	08/05/25	08/06/25
Endrin aldehyde	ND		ug/L	0.1	0.03	08/05/25	08/06/25
4,4'-DDT	ND		ug/L	0.1	0.04	08/05/25	08/06/25
Chlordane (Technical)	ND		ug/L	1.0	0.3	08/05/25	08/06/25
Methoxychlor	ND		ug/L	0.5	0.06	08/05/25	08/06/25
Toxaphene	ND		ug/L	1.0	0.8	08/05/25	08/06/25
Surrogates				**Limits**			
TCMX	60%		%REC	29-120		08/05/25	08/06/25
Decachlorobiphenyl	91%		%REC	33-132		08/05/25	08/06/25
Method: EPA 8082 Prep Method: EPA 3510C							
Aroclor-1016	ND		ug/L	0.50	0.30	08/05/25	08/06/25
Aroclor-1221	ND		ug/L	0.50	0.47	08/05/25	08/06/25
Aroclor-1232	ND		ug/L	0.50	0.27	08/05/25	08/06/25
Aroclor-1242	ND		ug/L	0.50	0.29	08/05/25	08/06/25
Aroclor-1248	ND		ug/L	0.50	0.24	08/05/25	08/06/25
Aroclor-1254	ND		ug/L	0.50	0.27	08/05/25	08/06/25
Aroclor-1260	ND		ug/L	0.50	0.33	08/05/25	08/06/25
Surrogates				**Limits**			
TCMX (PCB)	62%		%REC	28-120		08/05/25	08/06/25
Decachlorobiphenyl (PCB)	93%		%REC	28-138		08/05/25	08/06/25

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1281125**	**Batch:**	**378324**
Matrix:	**Water**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3510C**

QC1281125 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
gamma-BHC	0.5269	0.5000	ug/L	105%		68-125
Heptachlor	0.4669	0.5000	ug/L	93%		63-120
Aldrin	0.3991	0.5000	ug/L	80%	#	56-120
Dieldrin	0.5064	0.5000	ug/L	101%		66-124
Endrin	0.5325	0.5000	ug/L	107%		68-135
4,4'-DDT	0.5374	0.5000	ug/L	107%		65-136
Surrogates						
TCMX	0.3477	0.5000	ug/L	70%		29-120
Decachlorobiphenyl	0.4984	0.5000	ug/L	100%		33-132

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1281126**	**Batch:**	**378324**
Matrix:	**Water**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3510C**

QC1281126 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
gamma-BHC	0.4543	0.5000	ug/L	91%		68-125	15	20
Heptachlor	0.3963	0.5000	ug/L	79%		63-120	16	24
Aldrin	0.3332	0.5000	ug/L	67%	#	56-120	18	30
Dieldrin	0.4199	0.5000	ug/L	84%		66-124	19	22
Endrin	0.4414	0.5000	ug/L	88%		68-135	19	20
4,4'-DDT	0.4440	0.5000	ug/L	89%		65-136	19	23
Surrogates								
TCMX	0.3140	0.5000	ug/L	63%		29-120		
Decachlorobiphenyl	0.4239	0.5000	ug/L	85%		33-132		

Type:	**Lab Control Sample**	**Lab ID:**	**QC1281127**	**Batch:**	**378324**
Matrix:	**Water**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3510C**

QC1281127 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	5.469	5.000	ug/L	109%		69-120
Aroclor-1260	5.127	5.000	ug/L	103%		72-124
Surrogates						
TCMX (PCB)	0.4586	0.5000	ug/L	92%		28-120
Decachlorobiphenyl (PCB)	0.5289	0.5000	ug/L	106%		28-138

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1281128**	**Batch:**	**378324**
Matrix:	**Water**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3510C**

QC1281128 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Aroclor-1016	5.145	5.000	ug/L	103%		69-120	6	22
Aroclor-1260	5.000	5.000	ug/L	100%		72-124	3	25
Surrogates								
TCMX (PCB)	0.4326	0.5000	ug/L	87%		28-120		
Decachlorobiphenyl (PCB)	0.5128	0.5000	ug/L	103%		28-138		

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1281821	Batch:	378520
Matrix (Source ID):	Water (538513-001)	Method:	EPA 8260B	Prep Method:	EPA 5030B

QC1281821 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1,1-Dichloroethene	16.55	ND	20.00	ug/L	83%		62-131	1
Benzene	24.73	ND	20.00	ug/L	124%	*	70-123	1
Trichloroethene	22.07	ND	20.00	ug/L	110%		65-131	1
Toluene	22.00	ND	20.00	ug/L	110%		69-120	1
Chlorobenzene	22.79	ND	20.00	ug/L	114%		72-121	1
Surrogates								
Dibromofluoromethane	46.21		50.00	ug/L	92%		70-130	1
1,2-Dichloroethane-d4	44.98		50.00	ug/L	90%		70-130	1
Toluene-d8	48.02		50.00	ug/L	96%		70-130	1
Bromofluorobenzene	50.15		50.00	ug/L	100%		70-130	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1281822	Batch:	378520
Matrix (Source ID):	Water (538513-001)	Method:	EPA 8260B	Prep Method:	EPA 5030B

QC1281822 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1,1-Dichloroethene	13.93	ND	20.00	ug/L	70%		62-131	17	31	1
Benzene	23.58	ND	20.00	ug/L	118%		70-123	5	31	1
Trichloroethene	20.86	ND	20.00	ug/L	104%		65-131	6	31	1
Toluene	20.87	ND	20.00	ug/L	104%		69-120	5	29	1
Chlorobenzene	21.18	ND	20.00	ug/L	106%		72-121	7	29	1
Surrogates										
Dibromofluoromethane	46.60		50.00	ug/L	93%		70-130			1
1,2-Dichloroethane-d4	45.35		50.00	ug/L	91%		70-130			1
Toluene-d8	47.68		50.00	ug/L	95%		70-130			1
Bromofluorobenzene	50.24		50.00	ug/L	100%		70-130			1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC1281824**	**Batch: 378520**
Matrix: Water	**Method: EPA 8260B**	**Prep Method: EPA 5030B**

QC1281824 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloroprene	ND		ug/L	200	0.3	08/07/25	08/07/25
3-Chloropropene	ND		ug/L	5.0	0.2	08/07/25	08/07/25
Ethyl methacrylate	ND		ug/L	50	2.4	08/07/25	08/07/25
Methyl acrylonitrile	ND		ug/L	35	1.3	08/07/25	08/07/25
Methyl methacrylate	ND		ug/L	5.0	2.4	08/07/25	08/07/25
Vinyl Acetate	ND		ug/L	50	2.5	08/07/25	08/07/25
Acrolein	ND		ug/L	200	1.6	08/07/25	08/07/25
Acrylonitrile	ND		ug/L	10	0.4	08/07/25	08/07/25
Freon 12	ND		ug/L	5.0	0.2	08/07/25	08/07/25
Chloromethane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Vinyl Chloride	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Bromomethane	ND		ug/L	5.0	0.3	08/07/25	08/07/25
Chloroethane	ND		ug/L	5.0	0.05	08/07/25	08/07/25
Trichlorofluoromethane	ND		ug/L	5.0	0.08	08/07/25	08/07/25
Iodomethane	ND		ug/L	10		08/07/25	08/07/25
Acetone	ND		ug/L	100	8.8	08/07/25	08/07/25
1,1-Dichloroethene	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Methylene Chloride	ND		ug/L	10	0.2	08/07/25	08/07/25
Carbon Disulfide	ND		ug/L	5.0	0.3	08/07/25	08/07/25
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	08/07/25	08/07/25
1,1-Dichloroethane	ND		ug/L	5.0	0.07	08/07/25	08/07/25
2-Butanone	ND		ug/L	10	0.9	08/07/25	08/07/25
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	08/07/25	08/07/25
2,2-Dichloropropane	ND		ug/L	5.0	0.09	08/07/25	08/07/25
Chloroform	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Bromochloromethane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	08/07/25	08/07/25
1,1-Dichloropropene	ND		ug/L	5.0	0.08	08/07/25	08/07/25
Carbon Tetrachloride	ND		ug/L	5.0	0.07	08/07/25	08/07/25
1,2-Dichloroethane	ND		ug/L	5.0	0.09	08/07/25	08/07/25
Benzene	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Trichloroethene	ND		ug/L	5.0	0.05	08/07/25	08/07/25
1,2-Dichloropropane	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Bromodichloromethane	ND		ug/L	5.0	0.05	08/07/25	08/07/25
Dibromomethane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	08/07/25	08/07/25
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	08/07/25	08/07/25
Toluene	ND		ug/L	5.0	0.05	08/07/25	08/07/25
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	08/07/25	08/07/25
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	08/07/25	08/07/25
2-Hexanone	ND		ug/L	10	0.6	08/07/25	08/07/25
1,3-Dichloropropane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Tetrachloroethene	ND		ug/L	5.0	0.09	08/07/25	08/07/25
Dibromochloromethane	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Chlorobenzene	ND		ug/L	5.0	0.05	08/07/25	08/07/25
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	08/07/25	08/07/25
Ethylbenzene	ND		ug/L	5.0	0.04	08/07/25	08/07/25

ENTHALPY ANALYTICAL

Batch QC

QC1281824 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
m,p-Xylenes	ND		ug/L	5.0	0.1	08/07/25	08/07/25
o-Xylene	ND		ug/L	5.0	0.06	08/07/25	08/07/25
Styrene	ND		ug/L	5.0	0.06	08/07/25	08/07/25
Bromoform	ND		ug/L	5.0	0.08	08/07/25	08/07/25
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	08/07/25	08/07/25
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	08/07/25	08/07/25
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	08/07/25	08/07/25
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	08/07/25	08/07/25
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	08/07/25	08/07/25
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Naphthalene	ND		ug/L	5.0	0.3	08/07/25	08/07/25
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	08/07/25	08/07/25
Xylene (total)	ND		ug/L	5.0		08/07/25	08/07/25
TIC:Acetonitrile	ND		ug/L			08/07/25	08/07/25
TIC:Isobutyl Alcohol	ND		ug/L			08/07/25	08/07/25
TIC:Propionitrile	ND		ug/L			08/07/25	08/07/25
Surrogates				**Limits**			
Dibromofluoromethane	100%		%REC	70-130		08/07/25	08/07/25
1,2-Dichloroethane-d4	100%		%REC	70-130		08/07/25	08/07/25
Toluene-d8	95%		%REC	70-130		08/07/25	08/07/25
Bromofluorobenzene	98%		%REC	70-130		08/07/25	08/07/25

Type: Lab Control Sample **Lab ID:** QC1282075 **Batch:** 378520
Matrix: Water **Method:** EPA 8260B **Prep Method:** EPA 5030B

QC1282075 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	41.83	50.00	ug/L	84%		69-128
Benzene	56.30	50.00	ug/L	113%		76-121
Trichloroethene	48.62	50.00	ug/L	97%		76-124
Toluene	50.42	50.00	ug/L	101%		76-120
Chlorobenzene	49.91	50.00	ug/L	100%		78-120
Surrogates						
Dibromofluoromethane	47.55	50.00	ug/L	95%		70-130
1,2-Dichloroethane-d4	45.59	50.00	ug/L	91%		70-130
Toluene-d8	48.53	50.00	ug/L	97%		70-130
Bromofluorobenzene	50.64	50.00	ug/L	101%		70-130

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC1285156**	**Batch: 379463**
Matrix: Water	**Method: EPA 8260B**	**Prep Method: EPA 5030B**

QC1285156 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloroprene	ND		ug/L	200	2.7	08/17/25	08/17/25
3-Chloropropene	ND		ug/L	5.0	0.2	08/17/25	08/17/25
Ethyl methacrylate	ND		ug/L	50	3.9	08/17/25	08/17/25
Methyl acrylonitrile	ND		ug/L	35	4.2	08/17/25	08/17/25
Methyl methacrylate	ND		ug/L	5.0	0.4	08/17/25	08/17/25
Vinyl Acetate	ND		ug/L	50	3.2	08/17/25	08/17/25
Acrolein	ND		ug/L	200	2.6	08/17/25	08/17/25
Acrylonitrile	ND		ug/L	10	0.7	08/17/25	08/17/25
Freon 12	ND		ug/L	5.0	0.2	08/17/25	08/17/25
Chloromethane	ND		ug/L	5.0	0.09	08/17/25	08/17/25
Vinyl Chloride	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Bromomethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Chloroethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Trichlorofluoromethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Iodomethane	ND		ug/L	10		08/17/25	08/17/25
Acetone	ND		ug/L	100	14	08/17/25	08/17/25
1,1-Dichloroethene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Methylene Chloride	ND		ug/L	10	0.2	08/17/25	08/17/25
Carbon Disulfide	ND		ug/L	5.0	0.1	08/17/25	08/17/25
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,1-Dichloroethane	ND		ug/L	5.0	0.09	08/17/25	08/17/25
2-Butanone	ND		ug/L	10	1.3	08/17/25	08/17/25
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
2,2-Dichloropropane	ND		ug/L	5.0	0.2	08/17/25	08/17/25
Chloroform	ND		ug/L	5.0	0.08	08/17/25	08/17/25
Bromochloromethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,1,1-Trichloroethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,1-Dichloropropene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Carbon Tetrachloride	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,2-Dichloroethane	ND		ug/L	5.0	0.2	08/17/25	08/17/25
Benzene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Trichloroethene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,2-Dichloropropane	ND		ug/L	5.0	0.09	08/17/25	08/17/25
Bromodichloromethane	ND		ug/L	5.0	0.07	08/17/25	08/17/25
Dibromomethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
4-Methyl-2-Pentanone	ND		ug/L	10	1.0	08/17/25	08/17/25
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Toluene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.09	08/17/25	08/17/25
1,1,2-Trichloroethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
2-Hexanone	ND		ug/L	10	1.3	08/17/25	08/17/25
1,3-Dichloropropane	ND		ug/L	5.0	0.07	08/17/25	08/17/25
Tetrachloroethene	ND		ug/L	5.0	0.2	08/17/25	08/17/25
Dibromochloromethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Chlorobenzene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.07	08/17/25	08/17/25
Ethylbenzene	ND		ug/L	5.0	0.1	08/17/25	08/17/25

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Batch QC

QC1285156 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
m,p-Xylenes	ND		ug/L	5.0	0.2	08/17/25	08/17/25
o-Xylene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Styrene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
Bromoform	ND		ug/L	5.0	0.06	08/17/25	08/17/25
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	08/17/25	08/17/25
1,3-Dichlorobenzene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	08/17/25	08/17/25
1,2-Dichlorobenzene	ND		ug/L	5.0	0.1	08/17/25	08/17/25
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	08/17/25	08/17/25
Naphthalene	ND		ug/L	5.0	0.6	08/17/25	08/17/25
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.3	08/17/25	08/17/25
Xylene (total)	ND		ug/L	5.0		08/17/25	08/17/25
TIC:Acetonitrile	ND		ug/L			08/17/25	08/17/25
TIC:Isobutyl Alcohol	ND		ug/L			08/17/25	08/17/25
TIC:Propionitrile	ND		ug/L			08/17/25	08/17/25
Surrogates				**Limits**			
Dibromofluoromethane	104%		%REC	70-130		08/17/25	08/17/25
1,2-Dichloroethane-d4	100%		%REC	70-130		08/17/25	08/17/25
Toluene-d8	100%		%REC	70-130		08/17/25	08/17/25
Bromofluorobenzene	95%		%REC	70-130		08/17/25	08/17/25

Type: Lab Control Sample **Lab ID:** QC1285157 **Batch:** 379463
Matrix: Water **Method:** EPA 8260B **Prep Method:** EPA 5030B

QC1285157 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	48.84	50.00	ug/L	98%		69-128
Benzene	51.84	50.00	ug/L	104%		76-121
Trichloroethene	52.88	50.00	ug/L	106%		76-124
Toluene	52.68	50.00	ug/L	105%		76-120
Chlorobenzene	52.86	50.00	ug/L	106%		78-120
Surrogates						
Dibromofluoromethane	51.10	50.00	ug/L	102%		70-130
1,2-Dichloroethane-d4	48.58	50.00	ug/L	97%		70-130
Toluene-d8	50.99	50.00	ug/L	102%		70-130
Bromofluorobenzene	48.24	50.00	ug/L	96%		70-130

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1285158**	**Batch:**	**379463**
Matrix:	**Water**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1285158 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	51.57	50.00	ug/L	103%		69-128	5	23
Benzene	55.09	50.00	ug/L	110%		76-121	6	21
Trichloroethene	55.52	50.00	ug/L	111%		76-124	5	22
Toluene	54.62	50.00	ug/L	109%		76-120	4	21
Chlorobenzene	54.24	50.00	ug/L	108%		78-120	3	20
Surrogates								
Dibromofluoromethane	50.87	50.00	ug/L	102%		70-130		
1,2-Dichloroethane-d4	48.05	50.00	ug/L	96%		70-130		
Toluene-d8	49.95	50.00	ug/L	100%		70-130		
Bromofluorobenzene	47.11	50.00	ug/L	94%		70-130		

Type:	**Matrix Spike**	**Lab ID:**	**QC1285177**	**Batch:**	**379463**
Matrix (Source ID):	**Water (540103-001)**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1285177 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1,1-Dichloroethene	20.00	ND	20.00	ug/L	100%		62-131	1
Benzene	20.16	ND	20.00	ug/L	101%		70-123	1
Trichloroethene	22.18	ND	20.00	ug/L	111%		65-131	1
Toluene	20.36	ND	20.00	ug/L	102%		69-120	1
Chlorobenzene	20.27	ND	20.00	ug/L	101%		72-121	1
Surrogates								
Dibromofluoromethane	50.63		50.00	ug/L	101%		70-130	1
1,2-Dichloroethane-d4	49.07		50.00	ug/L	98%		70-130	1
Toluene-d8	49.99		50.00	ug/L	100%		70-130	1
Bromofluorobenzene	48.45		50.00	ug/L	97%		70-130	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1285178**	**Batch:**	**379463**
Matrix (Source ID):	**Water (540103-001)**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1285178 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1,1-Dichloroethene	20.11	ND	20.00	ug/L	101%		62-131	1	31	1
Benzene	20.14	ND	20.00	ug/L	101%		70-123	0	31	1
Trichloroethene	22.49	ND	20.00	ug/L	112%		65-131	1	31	1
Toluene	20.54	ND	20.00	ug/L	103%		69-120	1	29	1
Chlorobenzene	20.61	ND	20.00	ug/L	103%		72-121	2	29	1
Surrogates										
Dibromofluoromethane	49.94		50.00	ug/L	100%		70-130			1
1,2-Dichloroethane-d4	49.19		50.00	ug/L	98%		70-130			1
Toluene-d8	50.37		50.00	ug/L	101%		70-130			1
Bromofluorobenzene	48.59		50.00	ug/L	97%		70-130			1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1281395	**Batch:** 378398	
Matrix: Water	**Method:** EPA 8270C	**Prep Method:** EPA 3510C	

QC1281395 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
N-Nitrosodimethylamine	ND		ug/L	10	2.8	08/06/25	08/06/25
Phenol	ND		ug/L	10	1.7	08/06/25	08/06/25
bis(2-Chloroethyl)ether	ND		ug/L	25	3.9	08/06/25	08/06/25
2-Chlorophenol	ND		ug/L	10	3.8	08/06/25	08/06/25
Benzyl alcohol	ND		ug/L	10	5.2	08/06/25	08/06/25
2-Methylphenol	ND		ug/L	10	3.3	08/06/25	08/06/25
bis(2-Chloroisopropyl) ether	ND		ug/L	10	4.3	08/06/25	08/06/25
3-,4-Methylphenol	ND		ug/L	10	3.1	08/06/25	08/06/25
N-Nitroso-di-n-propylamine	ND		ug/L	10	4.2	08/06/25	08/06/25
Hexachloroethane	ND		ug/L	10	3.7	08/06/25	08/06/25
Nitrobenzene	ND		ug/L	25	8.4	08/06/25	08/06/25
Isophorone	ND		ug/L	10	4.2	08/06/25	08/06/25
2-Nitrophenol	ND		ug/L	10	4.6	08/06/25	08/06/25
2,4-Dimethylphenol	ND		ug/L	10	3.7	08/06/25	08/06/25
bis(2-Chloroethoxy)methane	ND		ug/L	10	3.9	08/06/25	08/06/25
2,4-Dichlorophenol	ND		ug/L	10	4.4	08/06/25	08/06/25
4-Chloroaniline	ND		ug/L	10	3.6	08/06/25	08/06/25
Hexachlorobutadiene	ND		ug/L	10	3.3	08/06/25	08/06/25
4-Chloro-3-methylphenol	ND		ug/L	10	3.9	08/06/25	08/06/25
2-Methylnaphthalene	ND		ug/L	10	3.6	08/06/25	08/06/25
Hexachlorocyclopentadiene	ND		ug/L	25	10	08/06/25	08/06/25
2,4,6-Trichlorophenol	ND		ug/L	10	4.4	08/06/25	08/06/25
2,4,5-Trichlorophenol	ND		ug/L	10	4.0	08/06/25	08/06/25
2-Chloronaphthalene	ND		ug/L	10	3.9	08/06/25	08/06/25
2-Nitroaniline	ND		ug/L	50	3.4	08/06/25	08/06/25
Dimethylphthalate	ND		ug/L	10	4.0	08/06/25	08/06/25
Acenaphthylene	ND		ug/L	10	4.7	08/06/25	08/06/25
2,6-Dinitrotoluene	ND		ug/L	10	3.9	08/06/25	08/06/25
3-Nitroaniline	ND		ug/L	10	3.6	08/06/25	08/06/25
Acenaphthene	ND		ug/L	10	3.6	08/06/25	08/06/25
2,4-Dinitrophenol	ND		ug/L	50	7.7	08/06/25	08/06/25
4-Nitrophenol	ND		ug/L	10	5.6	08/06/25	08/06/25
Dibenzofuran	ND		ug/L	10	3.6	08/06/25	08/06/25
2,4-Dinitrotoluene	ND		ug/L	10	3.3	08/06/25	08/06/25
Diethylphthalate	ND		ug/L	10	3.1	08/06/25	08/06/25
Fluorene	ND		ug/L	10	3.4	08/06/25	08/06/25
4-Chlorophenyl-phenylether	ND		ug/L	10	3.7	08/06/25	08/06/25
4-Nitroaniline	ND		ug/L	10	3.2	08/06/25	08/06/25
4,6-Dinitro-2-methylphenol	ND		ug/L	50	13	08/06/25	08/06/25
N-Nitrosodiphenylamine	ND		ug/L	10	5.8	08/06/25	08/06/25
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	10	3.8	08/06/25	08/06/25
4-Bromophenyl-phenylether	ND		ug/L	10	4.0	08/06/25	08/06/25
Hexachlorobenzene	ND		ug/L	10	3.6	08/06/25	08/06/25
Pentachlorophenol	ND		ug/L	25	3.2	08/06/25	08/06/25
Phenanthrene	ND		ug/L	10	2.7	08/06/25	08/06/25
Anthracene	ND		ug/L	10	2.6	08/06/25	08/06/25
Di-n-butylphthalate	ND		ug/L	10	1.7	08/06/25	08/06/25

ENTHALPY ANALYTICAL

Batch QC

QC1281395 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoranthene	ND		ug/L	10	1.6	08/06/25	08/06/25
Pyrene	ND		ug/L	10	1.9	08/06/25	08/06/25
Butylbenzylphthalate	ND		ug/L	10	2.2	08/06/25	08/06/25
3,3'-Dichlorobenzidine	ND		ug/L	25	3.5	08/06/25	08/06/25
Benzo(a)anthracene	ND		ug/L	10	0.99	08/06/25	08/06/25
Chrysene	ND		ug/L	10	1.2	08/06/25	08/06/25
bis(2-Ethylhexyl)phthalate	ND		ug/L	10	3.3	08/06/25	08/06/25
Di-n-octylphthalate	ND		ug/L	10	1.3	08/06/25	08/06/25
Benzo(b)fluoranthene	ND		ug/L	10	1.2	08/06/25	08/06/25
Benzo(k)fluoranthene	ND		ug/L	10	1.4	08/06/25	08/06/25
Benzo(a)pyrene	ND		ug/L	10	1.4	08/06/25	08/06/25
Indeno(1,2,3-cd)pyrene	ND		ug/L	10	1.2	08/06/25	08/06/25
Dibenz(a,h)anthracene	ND		ug/L	10	1.5	08/06/25	08/06/25
Benzo(g,h,i)perylene	ND		ug/L	10	1.5	08/06/25	08/06/25
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			08/06/25	08/06/25
TIC:1,3,5-Trinitrobenzene	ND		ug/L			08/06/25	08/06/25
TIC:1,4-Naphthoquinone	ND		ug/L			08/06/25	08/06/25
TIC:1-Naphthylamine	ND		ug/L			08/06/25	08/06/25
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			08/06/25	08/06/25
TIC:2,6-Dichlorophenol	ND		ug/L			08/06/25	08/06/25
TIC:2-Acetylaminofluorene	ND		ug/L			08/06/25	08/06/25
TIC:2-Naphthylamine	ND		ug/L			08/06/25	08/06/25
TIC:3,3'-Dimethylbenzidine	ND		ug/L			08/06/25	08/06/25
TIC:3-Methylcholanthrene	ND		ug/L			08/06/25	08/06/25
TIC:4-Aminobiphenyl	ND		ug/L			08/06/25	08/06/25
TIC:5-Nitro-o-toluidine	ND		ug/L			08/06/25	08/06/25
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			08/06/25	08/06/25
TIC:Acetophenone	ND		ug/L			08/06/25	08/06/25
TIC:Chlorobenzilate	ND		ug/L			08/06/25	08/06/25
TIC:Diallate	ND		ug/L			08/06/25	08/06/25
TIC:Dimethoate	ND		ug/L			08/06/25	08/06/25
TIC:Dinoseb	ND		ug/L			08/06/25	08/06/25
TIC:Diphenylamine	ND		ug/L			08/06/25	08/06/25
TIC:Disulfoton	ND		ug/L			08/06/25	08/06/25
TIC:Ethyl methanesulfonate	ND		ug/L			08/06/25	08/06/25
TIC:Famphur	ND		ug/L			08/06/25	08/06/25
TIC:Hexachloropropene	ND		ug/L			08/06/25	08/06/25
TIC:Isodrin	ND		ug/L			08/06/25	08/06/25
TIC:Isosafrole	ND		ug/L			08/06/25	08/06/25
TIC:Kepone	ND		ug/L			08/06/25	08/06/25
TIC:Methapyrilene	ND		ug/L			08/06/25	08/06/25
TIC:Methyl methanesulfonate	ND		ug/L			08/06/25	08/06/25
TIC:Methyl parathion	ND		ug/L			08/06/25	08/06/25
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			08/06/25	08/06/25
TIC:N-Nitrosodiethylamine	ND		ug/L			08/06/25	08/06/25
TIC:N-Nitrosomethylethylamine	ND		ug/L			08/06/25	08/06/25
TIC:N-Nitrosopiperidine	ND		ug/L			08/06/25	08/06/25
TIC:N-Nitrosopyrrolidine	ND		ug/L			08/06/25	08/06/25
TIC:Parathion ethyl	ND		ug/L			08/06/25	08/06/25
TIC:Pentachlorobenzene	ND		ug/L			08/06/25	08/06/25
TIC:Pentachloronitrobenzene	ND		ug/L			08/06/25	08/06/25
TIC:Phenacetin	ND		ug/L			08/06/25	08/06/25

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Batch QC

QC1281395 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
TIC:Phorate	ND		ug/L			08/06/25	08/06/25
TIC:Pronamide	ND		ug/L			08/06/25	08/06/25
TIC:Safrole	ND		ug/L			08/06/25	08/06/25
TIC:Thionazin	ND		ug/L			08/06/25	08/06/25
TIC:m-Dinitrobenzene	ND		ug/L			08/06/25	08/06/25
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			08/06/25	08/06/25
TIC:o-Toluidine	ND		ug/L			08/06/25	08/06/25
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			08/06/25	08/06/25
TIC:p-Phenylenediamine	ND		ug/L			08/06/25	08/06/25
Surrogates				**Limits**			
2-Fluorophenol	38%		%REC	15-120		08/06/25	08/06/25
Phenol-d6	26%		%REC	15-120		08/06/25	08/06/25
2,4,6-Tribromophenol	63%		%REC	15-140		08/06/25	08/06/25
Nitrobenzene-d5	60%		%REC	15-123		08/06/25	08/06/25
2-Fluorobiphenyl	58%		%REC	15-120		08/06/25	08/06/25
Terphenyl-d14	81%		%REC	15-120		08/06/25	08/06/25

Type: Lab Control Sample **Lab ID:** QC1281396 **Batch:** 378398
Matrix: Water **Method:** EPA 8270C **Prep Method:** EPA 3510C

QC1281396 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	23.86	75.00	ug/L	32%		14-120
2-Chlorophenol	51.38	75.00	ug/L	69%		46-120
1,4-Dichlorobenzene	45.55	75.00	ug/L	61%		42-120
3-,4-Methylphenol	49.48	75.00	ug/L	66%		40-120
N-Nitroso-di-n-propylamine	65.10	75.00	ug/L	87%		54-121
2,4-Dimethylphenol	58.27	75.00	ug/L	78%		48-120
1,2,4-Trichlorobenzene	52.45	75.00	ug/L	70%		45-120
4-Chloro-3-methylphenol	66.15	75.00	ug/L	88%		60-121
2,4,5-Trichlorophenol	65.24	75.00	ug/L	87%		62-124
Acenaphthene	55.83	75.00	ug/L	74%		56-120
4-Nitrophenol	29.12	75.00	ug/L	39%		17-120
2,4-Dinitrotoluene	64.43	75.00	ug/L	86%		69-127
Pentachlorophenol	52.47	75.00	ug/L	70%		51-120
Pyrene	64.21	75.00	ug/L	86%		68-123
Chrysene	59.74	75.00	ug/L	80%		66-120
Benzo(b)fluoranthene	66.41	75.00	ug/L	89%		67-120
Surrogates						
2-Fluorophenol	18.67	40.00	ug/L	47%		15-120
Phenol-d6	12.48	40.00	ug/L	31%		15-120
2,4,6-Tribromophenol	37.28	40.00	ug/L	93%		15-140
Nitrobenzene-d5	32.51	40.00	ug/L	81%		15-123
2-Fluorobiphenyl	29.78	40.00	ug/L	74%		15-120
Terphenyl-d14	35.06	40.00	ug/L	88%		15-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1281397**	**Batch:**	**378398**
Matrix:	**Water**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3510C**

QC1281397 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Phenol	25.54	75.00	ug/L	34%		14-120	7	52
2-Chlorophenol	54.65	75.00	ug/L	73%		46-120	6	52
1,4-Dichlorobenzene	46.34	75.00	ug/L	62%		42-120	2	53
3-,4-Methylphenol	50.95	75.00	ug/L	68%		40-120	3	51
N-Nitroso-di-n-propylamine	68.07	75.00	ug/L	91%		54-121	4	52
2,4-Dimethylphenol	62.66	75.00	ug/L	84%		48-120	7	52
1,2,4-Trichlorobenzene	54.31	75.00	ug/L	72%		45-120	3	54
4-Chloro-3-methylphenol	69.97	75.00	ug/L	93%		60-121	6	47
2,4,5-Trichlorophenol	69.29	75.00	ug/L	92%		62-124	6	46
Acenaphthene	57.77	75.00	ug/L	77%		56-120	3	46
4-Nitrophenol	28.08	75.00	ug/L	37%		17-120	4	44
2,4-Dinitrotoluene	65.87	75.00	ug/L	88%		69-127	2	40
Pentachlorophenol	54.18	75.00	ug/L	72%		51-120	3	42
Pyrene	67.77	75.00	ug/L	90%		68-123	5	39
Chrysene	63.52	75.00	ug/L	85%		66-120	6	38
Benzo(b)fluoranthene	70.48	75.00	ug/L	94%		67-120	6	39
Surrogates								
2-Fluorophenol	19.71	40.00	ug/L	49%		15-120		
Phenol-d6	13.60	40.00	ug/L	34%		15-120		
2,4,6-Tribromophenol	38.44	40.00	ug/L	96%		15-140		
Nitrobenzene-d5	34.44	40.00	ug/L	86%		15-123		
2-Fluorobiphenyl	30.80	40.00	ug/L	77%		15-120		
Terphenyl-d14	38.09	40.00	ug/L	95%		15-120		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1281418	Batch: 378404
Matrix: Water		

QC1281418 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 6020 Prep Method: EPA 3015A							
Antimony	ND		ug/L	2.0	0.31	08/06/25	08/06/25
Arsenic	ND		ug/L	2.0	0.38	08/06/25	08/06/25
Barium	ND		ug/L	5.0	0.46	08/06/25	08/06/25
Beryllium	ND		ug/L	1.0	0.062	08/06/25	08/07/25
Cadmium	ND		ug/L	1.0	0.095	08/06/25	08/06/25
Chromium	ND		ug/L	5.0	0.24	08/06/25	08/06/25
Cobalt	ND		ug/L	1.0	0.10	08/06/25	08/06/25
Copper	ND		ug/L	3.0	0.71	08/06/25	08/06/25
Lead	ND		ug/L	5.0	0.18	08/06/25	08/06/25
Manganese	ND		ug/L	10	3.4	08/06/25	08/06/25
Nickel	ND		ug/L	5.0	0.74	08/06/25	08/06/25
Selenium	ND		ug/L	2.0	1.6	08/06/25	08/06/25
Tin	ND		ug/L	5.00	0.328	08/06/25	08/07/25
Silver	ND		ug/L	5.0	0.63	08/06/25	08/06/25
Thallium	ND		ug/L	1.0	0.20	08/06/25	08/06/25
Vanadium	ND		ug/L	5.0	0.26	08/06/25	08/06/25
Zinc	ND		ug/L	10	7.4	08/06/25	08/06/25
Method: SM 2340B Prep Method: EPA 3015A							
Hardness as CaCO3	ND		mg/L	3.3		08/06/25	08/06/25

Type: Lab Control Sample	Lab ID: QC1281419	Batch: 378404
Matrix: Water	Method: EPA 6020	Prep Method: EPA 3015A

QC1281419 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	117.1	100.0	ug/L	117%		80-120
Arsenic	97.80	100.0	ug/L	98%		80-120
Barium	97.84	100.0	ug/L	98%		80-120
Beryllium	90.97	100.0	ug/L	91%		80-120
Cadmium	100.0	100.0	ug/L	100%		80-120
Chromium	96.36	100.0	ug/L	96%		80-120
Cobalt	98.41	100.0	ug/L	98%		80-120
Copper	97.37	100.0	ug/L	97%		80-120
Lead	98.45	100.0	ug/L	98%		80-120
Manganese	98.31	100.0	ug/L	98%		80-120
Nickel	100.3	100.0	ug/L	100%		80-120
Selenium	96.35	100.0	ug/L	96%		80-120
Tin	91.27	100.0	ug/L	91%		80-120
Silver	49.04	50.00	ug/L	98%		80-120
Thallium	98.69	100.0	ug/L	99%		80-120
Vanadium	97.31	100.0	ug/L	97%		80-120
Zinc	96.85	100.0	ug/L	97%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1281420	Batch:	378404
Matrix (Source ID):	Water (539271-003)	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1281420 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	1,198	ND	1000	ug/L	120%		75-125	10
Arsenic	994.4	3.970	1000	ug/L	99%		75-125	10
Barium	1,052	62.18	1000	ug/L	99%		75-125	10
Beryllium	1,052	ND	1000	ug/L	105%		75-125	10
Cadmium	979.3	ND	1000	ug/L	98%		75-125	10
Chromium	942.3	ND	1000	ug/L	94%		75-125	10
Cobalt	963.8	2.590	1000	ug/L	96%		75-125	10
Copper	950.8	ND	1000	ug/L	95%		75-125	10
Lead	1,006	ND	1000	ug/L	101%		75-125	10
Manganese	1,606	666.7	1000	ug/L	94%		75-125	10
Nickel	963.2	ND	1000	ug/L	96%		75-125	10
Selenium	969.7	ND	1000	ug/L	97%		75-125	10
Tin	961.0	24.73	1000	ug/L	94%		75-125	10
Silver	484.0	ND	500.0	ug/L	97%		75-125	10
Thallium	1,002	ND	1000	ug/L	100%		75-125	10
Vanadium	969.5	ND	1000	ug/L	97%		75-125	10
Zinc	956.3	ND	1000	ug/L	96%		75-125	10

Type:	Matrix Spike Duplicate	Lab ID:	QC1281421	Batch:	378404
Matrix (Source ID):	Water (539271-003)	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1281421 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	1,237	ND	1000	ug/L	124%		75-125	3	20	10
Arsenic	1,014	3.970	1000	ug/L	101%		75-125	2	20	10
Barium	1,087	62.18	1000	ug/L	102%		75-125	3	20	10
Beryllium	1,067	ND	1000	ug/L	107%		75-125	1	20	10
Cadmium	1,004	ND	1000	ug/L	100%		75-125	3	20	10
Chromium	973.2	ND	1000	ug/L	97%		75-125	3	20	10
Cobalt	998.8	2.590	1000	ug/L	100%		75-125	4	20	10
Copper	986.5	ND	1000	ug/L	99%		75-125	4	20	10
Lead	1,047	ND	1000	ug/L	105%		75-125	4	20	10
Manganese	1,653	666.7	1000	ug/L	99%		75-125	3	20	10
Nickel	998.2	ND	1000	ug/L	100%		75-125	4	20	10
Selenium	1,004	ND	1000	ug/L	100%		75-125	3	21	10
Tin	1,008	24.73	1000	ug/L	98%		75-125	5	20	10
Silver	495.3	ND	500.0	ug/L	99%		75-125	2	25	10
Thallium	1,039	ND	1000	ug/L	104%		75-125	4	20	10
Vanadium	1,017	ND	1000	ug/L	102%		75-125	5	20	10
Zinc	972.6	ND	1000	ug/L	97%		75-125	2	20	10

ENTHALPY ANALYTICAL

Batch QC

Type:	Serial Dilution	Lab ID:	QC1281771	Batch:	378404
Matrix (Source ID):	Water (539271-003)	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1281771 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Antimony	ND	ND	ug/L				50
Arsenic	ND	3.970	ug/L				50
Barium	73.05	62.18	ug/L	J			50
Beryllium	ND	ND	ug/L				50
Cadmium	ND	ND	ug/L				50
Chromium	ND	ND	ug/L				50
Cobalt	ND	2.590	ug/L				50
Copper	ND	ND	ug/L				50
Lead	ND	ND	ug/L				50
Manganese	719.6	666.7	ug/L				50
Nickel	ND	ND	ug/L				50
Selenium	ND	ND	ug/L				50
Tin	ND	5.570	ug/L				50
Silver	ND	ND	ug/L				50
Thallium	ND	ND	ug/L				50
Vanadium	ND	ND	ug/L				50
Zinc	ND	ND	ug/L				50

Type:	Blank	Lab ID:	QC1282505	Batch:	378730
Matrix:	Water	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282505 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.0050	0.0021	08/08/25	08/11/25

Type:	Lab Control Sample	Lab ID:	QC1282506	Batch:	378730
Matrix:	Water	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282506 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.09750	0.1000	mg/L	97%		85-115

Type:	Matrix Spike	Lab ID:	QC1282507	Batch:	378730
Matrix (Source ID):	Water (538986-002)	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282507 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.09879	ND	0.1000	mg/L	99%		80-120	0.5

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1282508	Batch:	378730
Matrix (Source ID):	Water (538986-002)	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282508 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.09488	ND	0.1000	mg/L	95%		80-120	4	20	0.5

Type:	Matrix Spike	Lab ID:	QC1282509	Batch:	378730
Matrix (Source ID):	Water (539231-002)	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282509 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.09947	ND	0.1000	mg/L	99%		80-120	0.5

Type:	Matrix Spike Duplicate	Lab ID:	QC1282510	Batch:	378730
Matrix (Source ID):	Water (539231-002)	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282510 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.09848	ND	0.1000	mg/L	98%		80-120	1	20	0.5

Type:	Blank	Lab ID:	QC1281542	Batch:	378442
Matrix:	Water	Method:	SM 4500-P-B2-E		

QC1281542 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Phosphate as P	ND		mg/L	0.020	0.010	08/06/25	08/11/25
Total Phosphate as PO4	ND		mg/L	0.060	0.031	08/06/25	08/11/25

Type:	Lab Control Sample	Lab ID:	QC1281543	Batch:	378442
Matrix:	Water	Method:	SM 4500-P-B2-E		

QC1281543 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Phosphate as P	0.4060	0.4000	mg/L	102%		80-120
Total Phosphate as PO4	1.245	1.230	mg/L	101%		80-120

Type:	Matrix Spike	Lab ID:	QC1281544	Batch:	378442
Matrix (Source ID):	Water (539203-001)	Method:	SM 4500-P-B2-E		

QC1281544 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Phosphate as P	0.8320	0.4990	0.4000	mg/L	83%		75-125	1
Total Phosphate as PO4	2.551	1.530	1.230	mg/L	83%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	**Lab ID:**	QC1281545
Matrix (Source ID):	Water (539203-001)	**Method:**	SM 4500-P-B2-E

Batch: 378442

QC1281545 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Phosphate as P	0.8210	0.4990	0.4000	mg/L	81%		75-125	1	20	1
Total Phosphate as PO4	2.517	1.530	1.230	mg/L	80%		75-125	1	20	1

Type:	Blank	**Lab ID:**	QC1281535
Matrix:	Water	**Method:**	SM 4500-P-B5-E

Batch: 378441

QC1281535 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.012	08/06/25	08/13/25

Type:	Lab Control Sample	**Lab ID:**	QC1281536
Matrix:	Water	**Method:**	SM 4500-P-B5-E

Batch: 378441

QC1281536 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.4210	0.4000	mg/L	105%		80-120

Type:	Matrix Spike	**Lab ID:**	QC1281537
Matrix (Source ID):	Water (539247-001)	**Method:**	SM 4500-P-B5-E

Batch: 378441

QC1281537 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.6540	0.2390	0.4000	mg/L	104%		75-125	1

Type:	Matrix Spike Duplicate	**Lab ID:**	QC1281538
Matrix (Source ID):	Water (539247-001)	**Method:**	SM 4500-P-B5-E

Batch: 378441

QC1281538 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.6600	0.2390	0.4000	mg/L	105%		75-125	1	20	1

Type:	Blank	**Lab ID:**	QC1282253	**Batch:**	378661
Matrix:	Water	**Method:**	SM 4500-S2-D	**Prep Method:**	METHOD

QC1282253 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Sulfide	ND		mg/L	0.10		08/07/25	08/07/25

Type:	Lab Control Sample	**Lab ID:**	QC1282254	**Batch:**	378661
Matrix:	Water	**Method:**	SM 4500-S2-D	**Prep Method:**	METHOD

QC1282254 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfide	0.9000	1.000	mg/L	90%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1282255	Batch:	378661
Matrix (Source ID):	Water (539423-004)	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282255 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1282256	Batch:	378661
Matrix (Source ID):	Water (539423-004)	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282256 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	0	20	1

Type:	Blank	Lab ID:	QC1282257	Batch:	378662
Matrix:	Water	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282257 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Sulfide	ND		mg/L	0.10		08/07/25	08/07/25

Type:	Lab Control Sample	Lab ID:	QC1282258	Batch:	378662
Matrix:	Water	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282258 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfide	0.9000	1.000	mg/L	90%		90-110

Type:	Matrix Spike	Lab ID:	QC1282259	Batch:	378662
Matrix (Source ID):	Water (539231-004)	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282259 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1282260	Batch:	378662
Matrix (Source ID):	Water (539231-004)	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282260 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	0	20	1

Type:	Blank	Lab ID:	QC1284911	Batch:	379401
Matrix:	Water	Method:	SM 5310B	Prep Method:	SM 5310B

QC1284911 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.24	08/15/25	08/18/25

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1284912	Batch: 379401
Matrix: Water	Method: SM 5310B	Prep Method: SM 5310B

QC1284912 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	23.71	25.00	mg/L	95%		85-115

Type: Matrix Spike	Lab ID: QC1284913	Batch: 379401
Matrix (Source ID): Water (539136-003)	Method: SM 5310B	Prep Method: SM 5310B

QC1284913 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	31.56	5.920	25.00	mg/L	103%		75-125	1

Type: Matrix Spike Duplicate	Lab ID: QC1284914	Batch: 379401
Matrix (Source ID): Water (539136-003)	Method: SM 5310B	Prep Method: SM 5310B

QC1284914 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	29.78	5.920	25.00	mg/L	95%		75-125	6	25	1

Type: Blank	Lab ID: QC1284773	Batch: 379366
Matrix: Water	Method: SM2320B	Prep Method: METHOD

QC1284773 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Alkalinity, Total as CaCO3	ND		mg/L	2.0		08/15/25	08/15/25
Bicarbonate	ND		mg/L	2.4		08/15/25	08/15/25
Carbonate	ND		mg/L	2.0		08/15/25	08/15/25
Hydroxide	ND		mg/L	2.0		08/15/25	08/15/25

Type: Lab Control Sample	Lab ID: QC1284774	Batch: 379366
Matrix: Water	Method: SM2320B	Prep Method: METHOD

QC1284774 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	930.8	1000	mg/L	93%		90-110

Type: Sample Duplicate	Lab ID: QC1285760	Batch: 379366
Matrix (Source ID): Water (539713-008)	Method: SM2320B	Prep Method: METHOD

QC1285760 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Alkalinity, Total as CaCO3	970.4	950.6	mg/L		2	20	10
Bicarbonate	1,184	1160	mg/L		2	20	10
Carbonate	ND	ND	mg/L			20	10
Hydroxide	ND	ND	mg/L			20	10

ENTHALPY ANALYTICAL

Batch QC

Type:	Sample Duplicate	Lab ID:	QC1281582	Batch:	378458
Matrix (Source ID):	Water (539247-004)	Method:	SM2510B	Prep Method:	METHOD

QC1281582 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Specific Conductance	3,485	3466	umhos/cm		1	20	1

Type:	Sample Duplicate	Lab ID:	QC1281973	Batch:	378458
Matrix (Source ID):	Water (539365-004)	Method:	SM2510B	Prep Method:	METHOD

QC1281973 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Specific Conductance	1.510	1.540	umhos/cm		2	20	1

Type:	Blank	Lab ID:	QC1282992	Batch:	378824
Matrix:	Water	Method:	SM2540C	Prep Method:	METHOD

QC1282992 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/11/25	08/12/25

Type:	Lab Control Sample	Lab ID:	QC1282993	Batch:	378824
Matrix:	Water	Method:	SM2540C	Prep Method:	METHOD

QC1282993 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	1,025	1000	mg/L	103%		90-110

Type:	Sample Duplicate	Lab ID:	QC1282995	Batch:	378824
Matrix (Source ID):	Water (539373-006)	Method:	SM2540C	Prep Method:	METHOD

QC1282995 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	100.0	103.0	mg/L		3	5	1

Type:	Blank	Lab ID:	QC1282655	Batch:	378771
Matrix:	Water	Method:	SM5220D	Prep Method:	METHOD

QC1282655 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	2.0	08/09/25	08/09/25

Type:	Lab Control Sample	Lab ID:	QC1282656	Batch:	378771
Matrix:	Water	Method:	SM5220D	Prep Method:	METHOD

QC1282656 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	90.00	100.0	mg/L	90%		90-110

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Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1282657**	**Batch:**	**378771**
Matrix (Source ID):	**Water (539322-001)**	**Method:**	**SM5220D**	**Prep Method:**	**METHOD**

QC1282657 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	60.00	ND	100.0	mg/L	60%	*	75-125	2

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1282658**	**Batch:**	**378771**
Matrix (Source ID):	**Water (539322-001)**	**Method:**	**SM5220D**	**Prep Method:**	**METHOD**

QC1282658 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chemical Oxygen Demand	62.00	ND	100.0	mg/L	62%	*	75-125	3	20	2

#	CCV drift outside limits; average CCV drift within limits per method requirements
*	Value is outside QC limits
E	Response exceeds instrument's linear range
J	Estimated value
ND	Not Detected
NM	Not Meaningful

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 539350
Report Level : II
Report Date : 08/20/2025

Analytical Report *prepared for:*

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Project: SANTA ANA - Badlands

Authorized for release by:

Zach Barker, Project Manager
zach.barker@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

ENTHALPY ANALYTICAL

Sample Summary

Panda Workman Riverside County 14310 Frederick Street Moreno Valley, CA 92553		Lab Job #: Project No: Location: Date Received:	539350 SANTA ANA Badlands 08/06/25

Sample ID	Lab ID	Collected	Matrix
BL-TB	539350-001	08/05/25 07:00	Water
BH-25	539350-002	08/05/25 10:00	Water

ENTHALPY ANALYTICAL

Case Narrative

Riverside County 14310 Frederick Street Moreno Valley, CA 92553 Panda Workman	Lab Job Number: 539350 Project No: SANTA ANA Location: Badlands Date Received: 08/06/25

This data package contains sample and QC results for two water samples, requested for the above referenced project on 08/06/25. The samples were received in good condition.

Volatile Organics by GC/MS (EPA 8260B):

- Low recoveries were observed for toluene and chlorobenzene in the MSD for batch 378539; the parent sample was not a project sample, and the BS/BSD were within limits. High RPD was observed for toluene in the MS/MSD for batch 378539; the RPD was acceptable in the BS/BSD, and this analyte was not detected at or above the RL in the associated samples.
- Toluene was detected between the MDL and the RL in the method blank for batch 378539; this analyte was not detected in samples at or above the RL.
- BL-TB (lab # 539350-001) and BH-25 (lab # 539350-002) had pH greater than 2.
- No other analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):
No analytical problems were encountered.

Pesticides (EPA 8081A):

- High surrogate recovery was observed for decachlorobiphenyl in the method blank for batch 378740; the corresponding TCMX surrogate recovery was within limits, and no target analytes were detected in the sample.
- No other analytical problems were encountered.

Total Organic Carbon by IR (SM 5310B):
No analytical problems were encountered.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6020 and SM 2340B) Water:

- High recoveries were observed for antimony in the MS/MSD for batch 378614; the parent sample was not a project sample, the LCS was within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample.
- Tin was detected between the MDL and the RL in the method blank for batch 378614; this analyte was not detected in the sample at or above the RL.
- No other analytical problems were encountered.

Metals (EPA 6010B) Filtrate:
No analytical problems were encountered.

Metals (EPA 245.1 and SM 2340B):

- The sample was filtered outside the 40CFR136 recommended 15 minute holding time.
- No other analytical problems were encountered.

Ion Chromatography (EPA 300.0):

- Responses exceeding the instrument's linear range were observed for sulfate in the MS/MSD of BH-25 (lab # 539350-002); affected data was qualified with "E".
- No other analytical problems were encountered.

Hexavalent Chromium by Ion Chromatograph (EPA 218.6):
No analytical problems were encountered.

Total Phosphate as P (SM 4500-P-B2-E):
No analytical problems were encountered.

Total Phosphorus as P (SM 4500-P-B5-E):
No analytical problems were encountered.

Conductivity (SM2510B):
No analytical problems were encountered.

Total Phenolics (EPA 420.1):
No analytical problems were encountered.

Alkalinity (SM2320B):
No analytical problems were encountered.

Sulfide (SM 4500-S2-D):
No analytical problems were encountered.

Ion Balance (Ion Balance):
No analytical problems were encountered.

Total Dissolved Solids (TDS) (SM2540C):
No analytical problems were encountered.

Chemical Oxygen Demand (SM5220D):
No analytical problems were encountered.

Cyanide - Semi-Automated Method (SM 4500-CN-E and SM 4500-CN-E):

- High RPD was observed for cyanide in the MS/MSD for batch 378777; the parent sample was not a project sample, and this analyte was not detected at or above the RL in the associated sample.
- No other analytical problems were encountered.

8151A Chlorinated Herbicides (EPA 8151A):
Weck Laboratories, Inc. in City of Industry, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

9020-TOX-OUT (EPA 9020):
Weck Laboratories, Inc. in City of Industry, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

EPA 524.3 (EPA 524.3):
Weck Laboratories, Inc. in City of Industry, CA performed the analysis (see sublab report section for certifications). Please see the Weck Laboratories, Inc. case narrative.

ENTHALPY ANALYTICAL

Login 539350

Phone 714-771-6900

Chain of Custody Record

Lab No: 539350

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Riverside County Waste Resources	Quote #:	
Report To:	Panda Workman/Simon Chang	Proj. Name:	Badlands
Email:	WasteLabSumittals@rivco.org	Proj. #:	
Address:	14310 Frederick Street	P.O. #:	
	Moreno Valley, CA	Address:	
Phone:	951.486.3200	Global ID:	L10003146754
Fax:		Sampled By:	Mauricio G. Gonzalez

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Please See Attachment	EPA 8260	Test Instructions / Comments
1	BL-TB	08/05/25	7:00 AM	W	1 / Large			X	2 Travel Blank Bottles
2									
3	BH-25	08/05/25	10:00 AM	W	1 / Large		X		23 Sample Bottle
4									
5									
6									
7									
8									
9									
10									

1R13
2.212.2

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Mauricio G. Gonzalez	RCDWR / Engineering Tech. I	08-05-25 / 04:30 PM
[1] Received By:		Vicente Ozaeta	EA	8/6/25 1304
[2] Relinquished By:		Vicente Ozaeta	EA	8/6/25 1544
[2] Received By:	MSK 8/6/25	Michael Kaynes	EA	8/6/25 1544
[3] Relinquished By:				
[3] Received By:				

Constituents of Concern Analysis Request Sheet

Sample Date: 8-5-25

Ciricle Site:

(Badlands) Hemet

Corona Idyllwild

Elsinore Mead Valley

EPA 200.8 Parameters (mg/l)
Mercury (Hg), total

EPA 300.0 Parameters (mg/l)
Chloride (Cl)
Nitrate (NO3-N)
Sulfate (SO4)

EPA 420.2 Parameters (mg/l)
Phenols

EPA 4500S D Parameters (mg/l)
Total Sulfide

EPA 6010B Parameters (mg/l)
Boron (B), Dissolved
Calcium (Ca), Dissolved
Iron (Fe), Dissolved
Magnesium (Mg), Dissolved
Potassium (K), Dissolved
Sodium (Na), Dissolved
Total Hardness

EPA 6020 Parameters (mg/l)
Antimony (Sb), total
Arsenic (As), total
Barium (Ba), total
Beryllium (Be), total
Cadmium (Cd), total
Chromium (Cr), total
Cobalt (Co), total
Copper (Cu), total
Lead (Pb), total
Manganese (Mn), total
Nickel (Ni), total
Selenium (Se), total
Silver (Ag), total
Thallium (Tl), total
Tin (Sn), total
Vanadium (V), total
Zinc (Zn), total

SM 2320 B Parameter (mg/l)
Bicarbonate(HCO3)
Carbonate (CO3)
Hydroxide (OH)
Total Alkalinity

SM 2510 Parameter (umho/cm)
Specific Conductance

SM 2540 C Parameter (mg/l)
Total Dissolved Solids (TDS)

EPA 218.6 Parameter (mg/l)
Chromium, hexavalent

SM 4500CN Parameter (mg/l)
Cyanide (CN)

SM 4500P B Parameter (mg/l)
Total Phosphorus (P)

SM 4500P E Parameter (mg/l)
Phosphate (PO4)

SM4500F C Parameter (mg/l)
Fluoride (F)

SM 5220D Parameter (mg/l)
Chemical Oxygen Demand (COD)

SM5310B Parameter (mg/l)
Total Organic Carbon (TOC)

SM 5320B Parameter (mg/l)
Total Organic Halogens (TOX)

Calculated Parameters (me/l)
Total Anions
Total Cations

EPA 524.3 Parameters (ug/l)
Dibromochloropropane (DBCP)
Ethylene dibromide (EDB)

EPA 8081A Parameters (ug/l)
&-BHC (delta-BHC)
@-BHC (alpha-BHC)
4,4'-DDD
4,4'-DDE
4,4'-DDT
Aldrin
b-BHC (beta-BHC)
Chlordane
Dieldrin
Endosulfan sulfate
Endosulfan-I
Endosulfan-II
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
Methoxychlor
Toxaphene
y-BHC (Lindane)

EPA 8082 Parameters (ug/l)
PCB-1016
PCB-1221
PCB-1232
PCB-1242
PCB-1248
PCB-1254
PCB-1260

EPA 8151B Parameters (ug/l)
2,4,5-T
2,4,5-TP (Silvex)
2,4-D

EPA 8260 and EPA 8270 Parameters are located on page 2

EPA 8260B Parameters (ug/l)			
1,1,1,2-Tetrachloroethane	2-Butanone (MEK)	Chloroform	Naphthalene
1,1,1-Trichloroethane	2-Hexanone	Chloromethane	Propionitrile
1,1,2,2-Tetrachloroethane	Acetone	Chloroprene	Styrene
1,1,2-Trichloroethane	Acetonitrile	cis-1,2-Dichloroethene	Tetrachloroethene
1,1-Dichloroethane	**Acrolein**	cis-1,3-Dichloropropene	Toluene
1,1-Dichloroethene	**Acrylonitrile**	Dibromochloromethane	Total Xylenes
1,1-Dichloropropene	Allyl Chloride	Dibromomethane	m-Xylene
1,2,3-Trichloropropane	Benzene	Dichlorodifluoromethane	o-Xylene
1,2,4-Trichlorobenzene	Bromochloromethane	Ethyl Methacrylate	p-Xylene
1,2-Dichlorobenzene	Bromodichloromethane	Ethylbenzene	trans-1,2-Dichloroethene
1,2-Dichloroethane	Bromoform	Iodomethane	trans-1,3-Dichloropropene
1,2-Dichloropropane	Bromomethane	Isobutyl Alcohol	trans-1,4-Dichloro-2-butene
1,3-Dichlorobenzene	Carbon Disulfide	Methacrylonitrile	Trichloroethene
1,3-Dichloropropane	Carbon Tetrachloride	Methyl isobutyl ketone (MIBK)	Trichlorofluoromethane
1,4-Dichlorobenzene	Chlorobenzene	Methyl Methacrylate	Vinyl Acetate
2,2-Dichloropropane	Chloroethane	Methylene Chloride	Vinyl Chloride

EPA 8270C Parameters (ug/l)			
1,2,4,5-Tetrachlorobenzene	Acenaphthene	Hexachlorocyclopentadiene	Phorate
1,3,5-Trinitrobenzene	Acenaphthylene	Hexachloroethane	p-Phenylenediamine
1,4-Naphthoquinone	Acetophenone	Hexachloropropene	Pronamide
1-Naphthylamine	Anthracene	Indeno(1,2,3-cd)pyrene	Pyrene
2,3,4,6-Tetrachlorophenol	Benzo(a)anthracene	Methapyrilene	Safrole
2,4,5-Trichlorophenol	Benzo(a)pyrene	Methyl Methanesulfonate	Thionazin
2,4,6-Trichlorophenol	Benzo(b)fluoranthene	Methyl Parathion	
2,4-Dichlorophenol	Benzo(ghi)perylene	Nitrobenzene	
2,4-Dimethylphenol	Benzo(k)fluoranthene	N-Nitrosodiethylamine	
2,4-Dinitrophenol	Benzyl Alcohol	N-Nitrosodimethylamine	
2,4-Dinitrotoluene	Bis(2-chloroethoxy)methane	Isodrin	
2,6-Dichlorophenol	Bis(2-chloroethyl) ether	Isophorone	
2,6-Dinitrotoluene	Bis(2-chloroisopropyl) ether	Isosafrole	
2-Acetylaminofluorene	Bis(2-ethylhexyl) Phthalate	Kepone	
2-Chloronaphthalene	Butyl benzyl Phthalate	m-Cresol	
2-Chlorophenol	Chlorobenzilate	m-Dinitrobenzene	
2-Methylnaphthalene	Chrysene	N-Nitrosodi-n-butylamine	
2-Napthylamine	Diallate	N-Nitrosodi-n-propylamine	
2-Nitroaniline	Dibenzo(a,h)anthracene	N-Nitrosodiphenylamine	
2-Nitrophenol	Dibenzofuran	N-Nitrosomethylethylamine	
3,3'-Dichlorobenzidine	Diethyl Phthalate	N-Nitrosopiperidine	
3,3'-Dimethylbenzidine	Dimethoate	N-Nitrosopyrrolidine	
3-Methylchlolanthrene	Dimethyl Phthalate	o,o,o-Triethyl Phosphorothioate	
3-Nitroaniline	Di-n-butyl Phthalate	O-Cresol	
4,6-Dinitro-2-methylphenol	Di-n-octyl Phthalate	O-Toluidine	
4-Aminobiphenyl	Dinoseb	p-(Dimethylamino) Azobenzene	
4-Bromophenyl phenyl ether	Diphenylamine	Parathion (Ethyl)	
4-Chloro-3-methylphenol	Disulfoton	p-Cresol	
4-Chloroaniline	Ethyl Methanesulfonate	Pentachlorobenzene	
4-Chlorophenyl phenyl ether	Famphur	Pentachloronitrobenzene	
4-Nitroaniline	Fluoranthene	Pentachlorophenol	
4-Nitrophenol	Fluorene	Phenacetin	
5-Nitro-o-toluidine	Hexachlorobenzene	Phenanthrene	
7,12-Dimethylbenz(a)anthracene	Hexachlorobutadiene	Phenol	

Bottle List is located on page 3

Analysis	Bottle Type	Volume	# of Bottles
EPA 8260	VOA w/ HCL	20 mL	3
EPA 8260 - Acetonitrile/Acrolein	VOA	20 mL	2
EDB/DBCP (524.3)	VOA - Malic/Acetic Acid	20 mL	3
Total Metals	Poly w/ HCL - **NOT** Field Filter	250 mL	1
Dissolved Metals	Poly w/ HCL - Field Filter	250 mL	1
8270C/8081/8082/8151	Amber	1 Liter	5
Chloride,Nitrate, Sulfate	Poly	125 mL	1
TOC	Amber w/ H2SO4	125 mL	1
Phosphorous, Phosphate, COD	Poly w/ H2SO4	250 mL	1
Cyanide	Poly w/ NaOh	250 mL	1
Hexavalent Chromium	Poly w/ Buffer	125 mL	1
TOX, Phenols	Amber w/ H2SO4	500 mL	2
Alkalinity, Conductivity, TDS	Poly	500 mL	1
Sulfide	Poly w/ NaOH+ZnAC	250 mL	1
		Total:	24

8-5-25

1. Relinquished By and Date

1. Recieived By and Date

2. Relinquished By and Date

2. Recieived By and Date

Badlands			
1. BH-24	3. BH-11	5. BD-04	7. BH-25
2. BH-21	4. BL-03	6. BH-22	

Corona			
1. CG-05	3. CG-04	5. CG-08	7. CG-07
2. CG-03	4. CG-01	6. CG-06A	8. CG-02

Elsinore			
1. E-01	2. E-05	3. E-02	4. E-03

Hemet		
1. HE-05	3. HE-04	5. HE-03
2. HE-01	4. HE-02	

Idyllwild			
1. I-05	2. I-03	3. I-01	4. I-02

Mead Valley			
1. MV-14	4. MV-08	7. MV-03	10. MV-05
2. MV-13	5. MV-12	8. MV-04	11. MV-11
3. MV-01	6. MV-10	9. MV-07	12. MV-09
			13. MV-06

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 8/6/25 WO# 539350 Client: RIVERSIDE COUNTY

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☐ No

Custody seals intact on arrival? ■ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

■ Courier ☐ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened 8/6/25 By (initials) RRS Type of ice used: ■ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR 13 CF: 0.0

Cooler Temp (°C) #1: 2.2 / 2.2 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ■ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ■ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	X		
2) Is the sampler's name present on the CoC?	X		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			X
5) Were all of, and only, the correct samples received?	X		
6) Are sample labels present, legible, and in agreement with the CoC?	X		
7) Does the container count match the CoC?	X		
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	X		
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			X
13) Are VOA vials free from headspace/bubbles > 6mm?	X		

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

☐ **No additional discrepancies**

Date Logged 8/6/25 **By (print)** NCM **(sign)** _____

Date Labeled 8/6/25 **By (print)** EA - GILA NEC **(sign)** EA - GILA NEC

ENTHALPY ANALYTICAL

WAaInRrRyeRsIcR.CM539352

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Lab Job #: 539350
Project No: SANTA ANA
Location: Badlands
Date Received: 08/06/25

Sample ID: BL-TB **Lab ID: 539352-221** **0 Clleocet : 2d8258 5 24:22**
7 adMi : x aceM

539352-221 WAaInce	yeRsIc	usal	QArcR	yL	7 DL	DU	BacoF	hMepaMet	WAaInPet	0 FemrRc
Method: EPA 8260B Prep Method: EPA 5030B										
Chloroprene	ND		ug/L	200	0.3	1	378539	08/08/25	08/08/25	ZST
3-Chloropropene	ND		ug/L	5.0	0.2	1	378539	08/08/25	08/08/25	ZST
Ethyl methacrylate	ND		ug/L	50	2.4	1	378539	08/08/25	08/08/25	ZST
Methyl acrylonitrile	ND		ug/L	35	1.3	1	378539	08/08/25	08/08/25	ZST
Methyl methacrylate	ND		ug/L	5.0	2.4	1	378539	08/08/25	08/08/25	ZST
Vinyl Acetate	ND		ug/L	50	2.5	1	378539	08/08/25	08/08/25	ZST
Acrolein	ND		ug/L	200	1.6	1	378539	08/08/25	08/08/25	ZST
Acrylonitrile	ND		ug/L	10	0.4	1	378539	08/08/25	08/08/25	ZST
Freon 12	ND		ug/L	5.0	0.2	1	378539	08/08/25	08/08/25	ZST
Chloromethane	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
Vinyl Chloride	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
Bromomethane	ND		ug/L	5.0	0.3	1	378539	08/08/25	08/08/25	ZST
Chloroethane	ND		ug/L	5.0	0.05	1	378539	08/08/25	08/08/25	ZST
Trichlorofluoromethane	ND		ug/L	5.0	0.08	1	378539	08/08/25	08/08/25	ZST
Iodomethane	ND		ug/L	10		1	378539	08/08/25	08/08/25	ZST
Acetone	ND		ug/L	100	8.8	1	378539	08/08/25	08/08/25	ZST
1,1-Dichloroethene	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
Methylene Chloride	ND		ug/L	10	0.2	1	378539	08/08/25	08/08/25	ZST
Carbon Disulfide	ND		ug/L	5.0	0.3	1	378539	08/08/25	08/08/25	ZST
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
1,1-Dichloroethane	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
2-Butanone	ND		ug/L	10	0.9	1	378539	08/08/25	08/08/25	ZST
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	1	378539	08/08/25	08/08/25	ZST
2,2-Dichloropropane	ND		ug/L	5.0	0.09	1	378539	08/08/25	08/08/25	ZST
Chloroform	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
Bromochloromethane	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	1	378539	08/08/25	08/08/25	ZST
1,1-Dichloropropene	ND		ug/L	5.0	0.08	1	378539	08/08/25	08/08/25	ZST
Carbon Tetrachloride	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
1,2-Dichloroethane	ND		ug/L	5.0	0.09	1	378539	08/08/25	08/08/25	ZST
Benzene	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
Trichloroethene	ND		ug/L	5.0	0.05	1	378539	08/08/25	08/08/25	ZST
1,2-Dichloropropane	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
Bromodichloromethane	ND		ug/L	5.0	0.05	1	378539	08/08/25	08/08/25	ZST
Dibromomethane	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	1	378539	08/08/25	08/08/25	ZST
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	1	378539	08/08/25	08/08/25	ZST
Toluene	2225	B,J	ug/L	5.0	0.05	1	378539	08/08/25	08/08/25	ZST
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	1	378539	08/08/25	08/08/25	ZST
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	1	378539	08/08/25	08/08/25	ZST
2-Hexanone	ND		ug/L	10	0.6	1	378539	08/08/25	08/08/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAaInRrR yeRsIcR . CM539352

539352-221 WAaInce	yeRsIc	usaI	QArdR	yL	7 DL	DU	BaccF	hMepaMet	WAaInPet	0 FemrRc
1,3-Dichloropropane	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
Tetrachloroethene	ND		ug/L	5.0	0.09	1	378539	08/08/25	08/08/25	ZST
Dibromochloromethane	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
Chlorobenzene	ND		ug/L	5.0	0.05	1	378539	08/08/25	08/08/25	ZST
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	1	378539	08/08/25	08/08/25	ZST
Ethylbenzene	ND		ug/L	5.0	0.04	1	378539	08/08/25	08/08/25	ZST
m,p-Xylenes	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
o-Xylene	ND		ug/L	5.0	0.06	1	378539	08/08/25	08/08/25	ZST
Styrene	ND		ug/L	5.0	0.06	1	378539	08/08/25	08/08/25	ZST
Bromoform	ND		ug/L	5.0	0.08	1	378539	08/08/25	08/08/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	1	378539	08/08/25	08/08/25	ZST
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	1	378539	08/08/25	08/08/25	ZST
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	1	378539	08/08/25	08/08/25	ZST
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	1	378539	08/08/25	08/08/25	ZST
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	1	378539	08/08/25	08/08/25	ZST
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	1	378539	08/08/25	08/08/25	ZST
Naphthalene	ND		ug/L	5.0	0.3	1	378539	08/08/25	08/08/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	1	378539	08/08/25	08/08/25	ZST
Xylene (total)	ND		ug/L	5.0		1	378539	08/08/25	08/08/25	ZST
TIC:Acetonitrile	ND		ug/L			1	378539	08/08/25	08/08/25	ZST
TIC:Isobutyl Alcohol	ND		ug/L			1	378539	08/08/25	08/08/25	ZST
TIC:Propionitrile	ND		ug/L			1	378539	08/08/25	08/08/25	ZST
SsMCf aceR				**LrmrcR**						
Dibromofluoromethane	108%		%REC	70-130		1	378539	08/08/25	08/08/25	ZST
1,2-Dichloroethane-d4	111%		%REC	70-130		1	378539	08/08/25	08/08/25	ZST
Toluene-d8	92%		%REC	70-130		1	378539	08/08/25	08/08/25	ZST
Bromofluorobenzene	97%		%REC	70-130		1	378539	08/08/25	08/08/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAalnRnR yeRslcR.CM539352

Sample ID: Bg-/ 5	Lab ID: 539352-22/	0 Clleocet : 2d8258/ 5 12:22

539352-22/ WAalnce	yeRslc	usal	QArcR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAalnPet	0 FemrRc
Method: EPA 218.6 Prep Method: METHOD											
Hexavalent Chromium	2z43	J	ug/L	1.0	0.024	Water	1	379606	08/19/25 09:45	08/19/25 11:03	BPH
Method: EPA 245.1 Prep Method: EPA 245.1											
Mercury	ND		ug/L	0.40	0.032	Water	1	378702	08/08/25	08/08/25	SMP
Method: EPA 300.0 Prep Method: METHOD											
Fluoride	Hz/		mg/L	0.20	0.073	Water	1	378517	08/06/25 19:30	08/06/25 20:27	AJL
Chloride	H42		mg/L	10	2.7	Water	10	378517	08/06/25 19:30	08/06/25 22:08	AJL
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	Water	1	378517	08/06/25 19:30	08/06/25 20:27	AJL
Nitrogen, Nitrate	3z9		mg/L	0.10	0.05	Water	1	378517	08/06/25 19:30	08/06/25 20:27	AJL
Sulfate	4H		mg/L	1.0	0.18	Water	1	378517	08/06/25 19:30	08/06/25 20:27	AJL
Method: EPA 420.1 Prep Method: METHOD											
Total Phenolics	ND		mg/L	0.010	0.0047	Water	1	379506	08/18/25	08/18/25	LVL
Method: EPA 6010B Prep Method: EPA 3015A											
Boron	2zH4		mg/L	0.050	0.0055	Filtrate	1	378693	08/08/25	08/08/25	DXC
Calcium	HH		mg/L	1.0	0.57	Filtrate	1	378693	08/08/25	08/08/25	DXC
Iron	ND		mg/L	0.10	0.046	Filtrate	1	378693	08/08/25	08/08/25	DXC
Magnesium	2z32		mg/L	0.10	0.025	Filtrate	1	378693	08/08/25	08/08/25	DXC
Potassium	1z4		mg/L	0.50	0.40	Filtrate	1	378693	08/08/25	08/08/25	DXC
Sodium	/ d2		mg/L	0.60	0.35	Filtrate	1	378693	08/08/25	08/08/25	DXC
Method: EPA 6020 Prep Method: EPA 3015A											
Antimony	ND		ug/L	2.0	0.31	Water	1	378614	08/07/25	08/12/25	MLL
Arsenic	dz2		ug/L	2.0	0.21	Water	1	378614	08/07/25	08/08/25	MLL
Barium	11		ug/L	5.0	0.33	Water	1	378614	08/07/25	08/08/25	MLL
Beryllium	ND		ug/L	1.0	0.21	Water	1	378614	08/07/25	08/12/25	MLL
Cadmium	ND		ug/L	1.0	0.11	Water	1	378614	08/07/25	08/08/25	MLL
Chromium	2z36	J	ug/L	5.0	0.34	Water	1	378614	08/07/25	08/08/25	MLL
Cobalt	ND		ug/L	1.0	0.068	Water	1	378614	08/07/25	08/08/25	MLL
Copper	ND		ug/L	3.0	0.71	Water	1	378614	08/07/25	08/08/25	MLL
Lead	ND		ug/L	5.0	0.16	Water	1	378614	08/07/25	08/08/25	MLL
Manganese	ND		ug/L	10	1.7	Water	1	378614	08/07/25	08/08/25	MLL
Nickel	ND		ug/L	5.0	1.3	Water	1	378614	08/07/25	08/08/25	MLL
Selenium	9z/		ug/L	4.0	1.6	Water	1	378614	08/07/25	08/08/25	MLL
Tin	ND		ug/L	5.00	0.504	Water	1	378614	08/07/25	08/12/25	MLL
Silver	ND		ug/L	5.0	0.50	Water	1	378614	08/07/25	08/08/25	MLL
Thallium	ND		ug/L	1.0	0.42	Water	1	378614	08/07/25	08/08/25	MLL
Vanadium	19		ug/L	5.0	0.26	Water	1	378614	08/07/25	08/08/25	MLL
Zinc	ND		ug/L	10	7.6	Water	1	378614	08/07/25	08/08/25	MLL

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAaInRrR yeRsIcR.CM539352

539352-22/ WAaInce	yeRsIc	usal	QArdR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAaInPet	0 FemrRc
Method: EPA 8081A Prep Method: EPA 3510C											
alpha-BHC	ND		ug/L	0.05	0.009	Water	0.93	378740	08/08/25	08/11/25	MES
beta-BHC	ND		ug/L	0.05	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
gamma-BHC	ND		ug/L	0.05	0.008	Water	0.93	378740	08/08/25	08/11/25	MES
delta-BHC	ND		ug/L	0.05	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Heptachlor	ND		ug/L	0.05	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Aldrin	ND		ug/L	0.05	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Heptachlor epoxide	ND		ug/L	0.05	0.009	Water	0.93	378740	08/08/25	08/11/25	MES
Endosulfan I	ND		ug/L	0.05	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Dieldrin	ND		ug/L	0.09	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
4,4'-DDE	ND		ug/L	0.09	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Endrin	ND		ug/L	0.09	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Endosulfan II	ND		ug/L	0.09	0.02	Water	0.93	378740	08/08/25	08/11/25	MES
Endosulfan sulfate	ND		ug/L	0.09	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
4,4'-DDD	ND		ug/L	0.09	0.01	Water	0.93	378740	08/08/25	08/11/25	MES
Endrin aldehyde	ND		ug/L	0.09	0.02	Water	0.93	378740	08/08/25	08/11/25	MES
4,4'-DDT	ND		ug/L	0.09	0.03	Water	0.93	378740	08/08/25	08/11/25	MES
Chlordane (Technical)	ND		ug/L	0.9	0.2	Water	0.93	378740	08/08/25	08/11/25	MES
Methoxychlor	ND		ug/L	0.5	0.03	Water	0.93	378740	08/08/25	08/11/25	MES
Toxaphene	ND		ug/L	0.9	0.4	Water	0.93	378740	08/08/25	08/11/25	MES
SsMCf aceR				**LrmrcR**							
TCMX	62%		%REC	29-120		Water	0.93	378740	08/08/25	08/11/25	MES
Decachlorobiphenyl	120%		%REC	33-132		Water	0.93	378740	08/08/25	08/11/25	MES
Method: EPA 8082 Prep Method: EPA 3510C											
Aroclor-1016	ND		ug/L	0.47	0.28	Water	0.93	378740	08/08/25	08/11/25	MES
Aroclor-1221	ND		ug/L	0.47	0.44	Water	0.93	378740	08/08/25	08/11/25	MES
Aroclor-1232	ND		ug/L	0.47	0.25	Water	0.93	378740	08/08/25	08/11/25	MES
Aroclor-1242	ND		ug/L	0.47	0.27	Water	0.93	378740	08/08/25	08/11/25	MES
Aroclor-1248	ND		ug/L	0.47	0.22	Water	0.93	378740	08/08/25	08/11/25	MES
Aroclor-1254	ND		ug/L	0.47	0.25	Water	0.93	378740	08/08/25	08/11/25	MES
Aroclor-1260	ND		ug/L	0.47	0.30	Water	0.93	378740	08/08/25	08/11/25	MES
SsMCf aceR				**LrmrcR**							
TCMX (PCB)	63%		%REC	28-120		Water	0.93	378740	08/08/25	08/11/25	MES
Decachlorobiphenyl (PCB)	113%		%REC	28-138		Water	0.93	378740	08/08/25	08/11/25	MES
Method: EPA 8260B Prep Method: EPA 5030B											
Chloroprene	ND		ug/L	200	0.3	Water	1	378539	08/08/25	08/08/25	ZST
3-Chloropropene	ND		ug/L	5.0	0.2	Water	1	378539	08/08/25	08/08/25	ZST
Ethyl methacrylate	ND		ug/L	50	2.4	Water	1	378539	08/08/25	08/08/25	ZST
Methyl acrylonitrile	ND		ug/L	35	1.3	Water	1	378539	08/08/25	08/08/25	ZST
Methyl methacrylate	ND		ug/L	5.0	2.4	Water	1	378539	08/08/25	08/08/25	ZST
Vinyl Acetate	ND		ug/L	50	2.5	Water	1	378539	08/08/25	08/08/25	ZST
Acrolein	ND		ug/L	200	1.6	Water	1	378539	08/08/25	08/08/25	ZST
Acrylonitrile	ND		ug/L	10	0.4	Water	1	378539	08/08/25	08/08/25	ZST
Freon 12	ND		ug/L	5.0	0.2	Water	1	378539	08/08/25	08/08/25	ZST
Chloromethane	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
Vinyl Chloride	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
Bromomethane	ND		ug/L	5.0	0.3	Water	1	378539	08/08/25	08/08/25	ZST
Chloroethane	ND		ug/L	5.0	0.05	Water	1	378539	08/08/25	08/08/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAaInRnR yeRsIcR.CM539352

539352-22/ WAaInce	yeRsIc	usal	QArdR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAaInPet	0 FemrRc
Trichlorofluoromethane	ND		ug/L	5.0	0.08	Water	1	378539	08/08/25	08/08/25	ZST
Iodomethane	ND		ug/L	10		Water	1	378539	08/08/25	08/08/25	ZST
Acetone	ND		ug/L	100	8.8	Water	1	378539	08/08/25	08/08/25	ZST
1,1-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
Methylene Chloride	ND		ug/L	10	0.2	Water	1	378539	08/08/25	08/08/25	ZST
Carbon Disulfide	ND		ug/L	5.0	0.3	Water	1	378539	08/08/25	08/08/25	ZST
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
1,1-Dichloroethane	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
2-Butanone	ND		ug/L	10	0.9	Water	1	378539	08/08/25	08/08/25	ZST
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	Water	1	378539	08/08/25	08/08/25	ZST
2,2-Dichloropropane	ND		ug/L	5.0	0.09	Water	1	378539	08/08/25	08/08/25	ZST
Chloroform	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
Bromochloromethane	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	Water	1	378539	08/08/25	08/08/25	ZST
1,1-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378539	08/08/25	08/08/25	ZST
Carbon Tetrachloride	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
1,2-Dichloroethane	ND		ug/L	5.0	0.09	Water	1	378539	08/08/25	08/08/25	ZST
Benzene	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
Trichloroethene	ND		ug/L	5.0	0.05	Water	1	378539	08/08/25	08/08/25	ZST
1,2-Dichloropropane	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
Bromodichloromethane	ND		ug/L	5.0	0.05	Water	1	378539	08/08/25	08/08/25	ZST
Dibromomethane	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	Water	1	378539	08/08/25	08/08/25	ZST
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	Water	1	378539	08/08/25	08/08/25	ZST
Toluene	ND		ug/L	5.0	0.05	Water	1	378539	08/08/25	08/08/25	ZST
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	Water	1	378539	08/08/25	08/08/25	ZST
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	Water	1	378539	08/08/25	08/08/25	ZST
2-Hexanone	ND		ug/L	10	0.6	Water	1	378539	08/08/25	08/08/25	ZST
1,3-Dichloropropane	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
Tetrachloroethene	ND		ug/L	5.0	0.09	Water	1	378539	08/08/25	08/08/25	ZST
Dibromochloromethane	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
Chlorobenzene	ND		ug/L	5.0	0.05	Water	1	378539	08/08/25	08/08/25	ZST
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378539	08/08/25	08/08/25	ZST
Ethylbenzene	ND		ug/L	5.0	0.04	Water	1	378539	08/08/25	08/08/25	ZST
m,p-Xylenes	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
o-Xylene	ND		ug/L	5.0	0.06	Water	1	378539	08/08/25	08/08/25	ZST
Styrene	ND		ug/L	5.0	0.06	Water	1	378539	08/08/25	08/08/25	ZST
Bromoform	ND		ug/L	5.0	0.08	Water	1	378539	08/08/25	08/08/25	ZST
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	Water	1	378539	08/08/25	08/08/25	ZST
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	Water	1	378539	08/08/25	08/08/25	ZST
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	Water	1	378539	08/08/25	08/08/25	ZST
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	Water	1	378539	08/08/25	08/08/25	ZST
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	Water	1	378539	08/08/25	08/08/25	ZST
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	Water	1	378539	08/08/25	08/08/25	ZST
Naphthalene	ND		ug/L	5.0	0.3	Water	1	378539	08/08/25	08/08/25	ZST
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	Water	1	378539	08/08/25	08/08/25	ZST
Xylene (total)	ND		ug/L	5.0		Water	1	378539	08/08/25	08/08/25	ZST
TIC:Acetonitrile	ND		ug/L			Water	1	378539	08/08/25	08/08/25	ZST
TIC:Isobutyl Alcohol	ND		ug/L			Water	1	378539	08/08/25	08/08/25	ZST
TIC:Propionitrile	ND		ug/L			Water	1	378539	08/08/25	08/08/25	ZST
SsMCf aceR				**LrmrcR**							
Dibromofluoromethane	107%		%REC	70-130		Water	1	378539	08/08/25	08/08/25	ZST

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAaInRnR yeRsIcR.CM539352

539352-22/ WAaInce	yeRsIc	usal	QArdR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAaInPet	0 FemrRc
1,2-Dichloroethane-d4	109%		%REC	70-130		Water	1	378539	08/08/25	08/08/25	ZST
Toluene-d8	91%		%REC	70-130		Water	1	378539	08/08/25	08/08/25	ZST
Bromofluorobenzene	96%		%REC	70-130		Water	1	378539	08/08/25	08/08/25	ZST
Method: EPA 8270C Prep Method: EPA 3510C											
N-Nitrosodimethylamine	ND		ug/L	9.4	2.6	Water	0.94	378673	08/08/25	08/08/25	ZFA
Phenol	ND		ug/L	9.4	1.6	Water	0.94	378673	08/08/25	08/08/25	ZFA
bis(2-Chloroethyl)ether	ND		ug/L	24	3.7	Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Chlorophenol	ND		ug/L	9.4	3.6	Water	0.94	378673	08/08/25	08/08/25	ZFA
Benzyl alcohol	ND		ug/L	9.4	4.9	Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Methylphenol	ND		ug/L	9.4	3.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
bis(2-Chloroisopropyl) ether	ND		ug/L	9.4	4.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
3-,4-Methylphenol	ND		ug/L	9.4	2.9	Water	0.94	378673	08/08/25	08/08/25	ZFA
N-Nitroso-di-n-propylamine	ND		ug/L	9.4	3.9	Water	0.94	378673	08/08/25	08/08/25	ZFA
Hexachloroethane	ND		ug/L	9.4	3.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
Nitrobenzene	ND		ug/L	24	7.9	Water	0.94	378673	08/08/25	08/08/25	ZFA
Isophorone	ND		ug/L	9.4	4.0	Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Nitrophenol	ND		ug/L	9.4	4.3	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4-Dimethylphenol	ND		ug/L	9.4	3.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
bis(2-Chloroethoxy)methane	ND		ug/L	9.4	3.7	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4-Dichlorophenol	ND		ug/L	9.4	4.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
4-Chloroaniline	ND		ug/L	9.4	3.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
Hexachlorobutadiene	ND		ug/L	9.4	3.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
4-Chloro-3-methylphenol	ND		ug/L	9.4	3.7	Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Methylnaphthalene	ND		ug/L	9.4	3.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
Hexachlorocyclopentadiene	ND		ug/L	24	9.7	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4,6-Trichlorophenol	ND		ug/L	9.4	4.2	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4,5-Trichlorophenol	ND		ug/L	9.4	3.8	Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Chloronaphthalene	ND		ug/L	9.4	3.7	Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Nitroaniline	ND		ug/L	47	3.2	Water	0.94	378673	08/08/25	08/08/25	ZFA
Dimethylphthalate	ND		ug/L	9.4	3.8	Water	0.94	378673	08/08/25	08/08/25	ZFA
Acenaphthylene	ND		ug/L	9.4	4.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,6-Dinitrotoluene	ND		ug/L	9.4	3.7	Water	0.94	378673	08/08/25	08/08/25	ZFA
3-Nitroaniline	ND		ug/L	9.4	3.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
Acenaphthene	ND		ug/L	9.4	3.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4-Dinitrophenol	ND		ug/L	47	7.2	Water	0.94	378673	08/08/25	08/08/25	ZFA
4-Nitrophenol	ND		ug/L	9.4	5.3	Water	0.94	378673	08/08/25	08/08/25	ZFA
Dibenzofuran	ND		ug/L	9.4	3.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4-Dinitrotoluene	ND		ug/L	9.4	3.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
Diethylphthalate	ND		ug/L	9.4	2.9	Water	0.94	378673	08/08/25	08/08/25	ZFA
Fluorene	ND		ug/L	9.4	3.2	Water	0.94	378673	08/08/25	08/08/25	ZFA
4-Chlorophenyl-phenylether	ND		ug/L	9.4	3.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
4-Nitroaniline	ND		ug/L	9.4	3.0	Water	0.94	378673	08/08/25	08/08/25	ZFA
4,6-Dinitro-2-methylphenol	ND		ug/L	47	12	Water	0.94	378673	08/08/25	08/08/25	ZFA
N-Nitrosodiphenylamine	ND		ug/L	9.4	5.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	9.4	3.6	Water	0.94	378673	08/08/25	08/08/25	ZFA
4-Bromophenyl-phenylether	ND		ug/L	9.4	3.8	Water	0.94	378673	08/08/25	08/08/25	ZFA
Hexachlorobenzene	ND		ug/L	9.4	3.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
Pentachlorophenol	ND		ug/L	24	3.0	Water	0.94	378673	08/08/25	08/08/25	ZFA
Phenanthrene	ND		ug/L	9.4	2.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
Anthracene	ND		ug/L	9.4	2.5	Water	0.94	378673	08/08/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAalnRnR yeRslcR.CM539352

539352-22/ WAalnce	yeRslc	usal	QArdR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAalnPet	0 FemrRc
Di-n-butylphthalate	ND		ug/L	9.4	1.6	Water	0.94	378673	08/08/25	08/08/25	ZFA
Fluoranthene	ND		ug/L	9.4	1.5	Water	0.94	378673	08/08/25	08/08/25	ZFA
Pyrene	ND		ug/L	9.4	1.8	Water	0.94	378673	08/08/25	08/08/25	ZFA
Butylbenzylphthalate	ND		ug/L	9.4	2.0	Water	0.94	378673	08/08/25	08/08/25	ZFA
3,3'-Dichlorobenzidine	ND		ug/L	24	3.3	Water	0.94	378673	08/08/25	08/08/25	ZFA
Benzo(a)anthracene	ND		ug/L	9.4	0.93	Water	0.94	378673	08/08/25	08/08/25	ZFA
Chrysene	ND		ug/L	9.4	1.2	Water	0.94	378673	08/08/25	08/08/25	ZFA
bis(2-Ethylhexyl)phthalate	ND		ug/L	9.4	3.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
Di-n-octylphthalate	ND		ug/L	9.4	1.2	Water	0.94	378673	08/08/25	08/08/25	ZFA
Benzo(b)fluoranthene	ND		ug/L	9.4	1.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
Benzo(k)fluoranthene	ND		ug/L	9.4	1.3	Water	0.94	378673	08/08/25	08/08/25	ZFA
Benzo(a)pyrene	ND		ug/L	9.4	1.3	Water	0.94	378673	08/08/25	08/08/25	ZFA
Indeno(1,2,3-cd)pyrene	ND		ug/L	9.4	1.1	Water	0.94	378673	08/08/25	08/08/25	ZFA
Dibenz(a,h)anthracene	ND		ug/L	9.4	1.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
Benzo(g,h,i)perylene	ND		ug/L	9.4	1.4	Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:1,3,5-Trinitrobenzene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:1,4-Naphthoquinone	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:1-Naphthylamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:2,6-Dichlorophenol	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:2-Acetylaminofluorene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:2-Naphthylamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:3,3'-Dimethylbenzidine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:3-Methylcholanthrene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:4-Aminobiphenyl	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:5-Nitro-o-toluidine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Acetophenone	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Chlorobenzilate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Diallate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Dimethoate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Dinoseb	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Diphenylamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Disulfoton	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Ethyl methanesulfonate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Famphur	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Hexachloropropene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Isodrin	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Isosafrole	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Kepone	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Methapyrilene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Methyl methanesulfonate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Methyl parathion	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:N-Nitrosodiethylamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:N-Nitrosomethylethylamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:N-Nitrosopiperidine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:N-Nitrosopyrrolidine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Parathion ethyl	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Pentachlorobenzene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAaInRrR yeRsIcR.CM539352

539352-22/ WAaInce	yeRsIc	usal	QArdR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAaInPet	0 FemrRc
TIC:Pentachloronitrobenzene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Phenacetin	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Phorate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Pronamide	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Safrole	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:Thionazin	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:m-Dinitrobenzene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:o-Toluidine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
TIC:p-Phenylenediamine	ND		ug/L			Water	0.94	378673	08/08/25	08/08/25	ZFA
SsMCf aceR				**LrmrcR**							
2-Fluorophenol	51%		%REC	15-120		Water	0.94	378673	08/08/25	08/08/25	ZFA
Phenol-d6	31%		%REC	15-120		Water	0.94	378673	08/08/25	08/08/25	ZFA
2,4,6-Tribromophenol	96%		%REC	15-140		Water	0.94	378673	08/08/25	08/08/25	ZFA
Nitrobenzene-d5	78%		%REC	15-123		Water	0.94	378673	08/08/25	08/08/25	ZFA
2-Fluorobiphenyl	75%		%REC	15-120		Water	0.94	378673	08/08/25	08/08/25	ZFA
Terphenyl-d14	98%		%REC	15-120		Water	0.94	378673	08/08/25	08/08/25	ZFA
Method: Ion Balance											
Anions	**15**		meq/L	0.10		Water	1	379688	08/20/25	08/20/25	AXS
Cations	**1H**		meq/L	0.10		Water	1	379688	08/20/25	08/20/25	AXS
Method: SM 2340B Prep Method: EPA 3015A											
Hardness as CaCO3	**1/ 2**		mg/L	3.3		Water	1	378614	08/07/25	08/08/25	SMP
Method: SM 4500-CN-E Prep Method: METHOD											
Cyanide	ND		mg/L	0.0050	0.0021	Water	0.5	378777	08/09/25	08/11/25	CKN
Method: SM 4500-P-B2-E											
Total Phosphate as P	**2z2H/**		mg/L	0.020	0.010	Water	1	378874	08/11/25	08/13/25	JAK
Total Phosphate as PO4	**2z13**		mg/L	0.060	0.031	Water	1	378874	08/11/25	08/13/25	JAK
Method: SM 4500-P-B5-E											
Phosphorus	**2z239**		mg/L	0.020	0.012	Water	1	378873	08/11/25	08/19/25	JAK
Method: SM 4500-S2-D Prep Method: METHOD											
Sulfide	ND		mg/L	0.10		Water	1	378661	08/07/25	08/07/25	TXC
Method: SM 5310B Prep Method: SM 5310B											
Total Organic Carbon	**2z62**	J	mg/L	1.0	0.24	Water	1	379402	08/15/25	08/19/25	CKN
Method: SM2320B Prep Method: METHOD											
Alkalinity, Total as CaCO3	**1d**		mg/L	2.0		Water	1	379643	08/19/25	08/19/25	ARM
Bicarbonate	/ /		mg/L	2.4		Water	1	379643	08/19/25	08/19/25	ARM
Carbonate	ND		mg/L	2.0		Water	1	379643	08/19/25	08/19/25	ARM
Hydroxide	ND		mg/L	2.0		Water	1	379643	08/19/25	08/19/25	ARM
Method: SM2510B Prep Method: METHOD											
Specific Conductance	**1,d62**		umhos/cm	1.0		Water	1	378768	08/09/25	08/09/25	ARM
Method: SM2540C Prep Method: METHOD											

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

WAalnRnR yeRslcR.CM539352

539352-22/ WAalnce	yeRslc	usal	QArdR	yL	7 DL	7 adMi	DU	BacoF	hMepaMet	WAalnPet	0 FemrRc
Total Dissolved Solids	**1,222**		mg/L	20		Water	2	378814	08/11/25	08/12/25	CDR
Method: SM5220D Prep Method: METHOD											
Chemical Oxygen Demand	**522**		mg/L	4.0	2.0	Water	1	379604	08/19/25	08/19/25	ARM

B Contamination found in associated Method Blank
J Estimated value
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1285729** **Batch: 379606**
Matrix: Water **Method: EPA 218.6** **Prep Method: METHOD**

QC1285729 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Hexavalent Chromium	ND		ug/L	1.0	0.024	08/19/25 09:45	08/19/25 10:00

Type: Lab Control Sample **Lab ID: QC1285730** **Batch: 379606**
Matrix: Water **Method: EPA 218.6** **Prep Method: METHOD**

QC1285730 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Hexavalent Chromium	52.41	50.00	ug/L	105%		90-110

Type: Matrix Spike **Lab ID: QC1285731** **Batch: 379606**
Matrix (Source ID): Water (539231-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285731 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Hexavalent Chromium	51.86	1.065	50.00	ug/L	102%		85-115	1

Type: Matrix Spike Duplicate **Lab ID: QC1285732** **Batch: 379606**
Matrix (Source ID): Water (539231-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285732 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Hexavalent Chromium	51.62	1.065	50.00	ug/L	101%		85-115	0	20	1

Type: Matrix Spike **Lab ID: QC1285733** **Batch: 379606**
Matrix (Source ID): Water (539350-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285733 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Hexavalent Chromium	51.30	0.7327	50.00	ug/L	101%		85-115	1

Type: Matrix Spike Duplicate **Lab ID: QC1285734** **Batch: 379606**
Matrix (Source ID): Water (539350-002) **Method: EPA 218.6** **Prep Method: METHOD**

QC1285734 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Hexavalent Chromium	51.57	0.7327	50.00	ug/L	102%		85-115	1	20	1

Type: Blank **Lab ID: QC1282416** **Batch: 378702**
Matrix: Water **Method: EPA 245.1** **Prep Method: EPA 245.1**

QC1282416 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Mercury	ND		ug/L	0.40	0.032	08/08/25	08/08/25

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID:** QC1282417	**Batch:** 378702
Matrix: Water	**Method:** EPA 245.1	**Prep Method:** EPA 245.1

QC1282417 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	5.263	5.000	ug/L	105%		85-115

Type: Matrix Spike	**Lab ID:** QC1282418	**Batch:** 378702
Matrix (Source ID): Water (539325-001)	**Method:** EPA 245.1	**Prep Method:** EPA 245.1

QC1282418 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	5.090	ND	5.000	ug/L	102%		75-125	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1282419	**Batch:** 378702
Matrix (Source ID): Water (539325-001)	**Method:** EPA 245.1	**Prep Method:** EPA 245.1

QC1282419 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	5.350	ND	5.000	ug/L	107%		75-125	5	20	1

Type: Blank	**Lab ID:** QC1281797	**Batch:** 378517
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1281797 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoride	ND		mg/L	0.20	0.073	08/06/25 19:30	08/06/25 19:54
Chloride	ND		mg/L	1.0	0.27	08/06/25 19:30	08/06/25 19:54
Nitrogen, Nitrite	ND		mg/L	0.10	0.02	08/06/25 19:30	08/06/25 19:54
Nitrogen, Nitrate	ND		mg/L	0.10	0.05	08/06/25 19:30	08/06/25 19:54
Sulfate	ND		mg/L	1.0	0.18	08/06/25 19:30	08/06/25 19:54

Type: Lab Control Sample	**Lab ID:** QC1281798	**Batch:** 378517
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1281798 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Fluoride	10.80	10.00	mg/L	108%		90-110
Chloride	48.23	50.00	mg/L	96%		90-110
Nitrogen, Nitrite	4.480	4.567	mg/L	98%		90-110
Nitrogen, Nitrate	4.752	4.518	mg/L	105%		90-110
Sulfate	25.39	25.00	mg/L	102%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1281801	Batch:	378517
Matrix (Source ID):	Water (539350-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC1281801 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Fluoride	25.75	4.190	20.00	mg/L	108%		80-129	1
Chloride	503.5	474.7	100.0	mg/L	29%	E,NM	80-123	1
Nitrogen, Nitrite	7.978	ND	9.134	mg/L	87%		80-122	1
Nitrogen, Nitrate	12.85	3.866	9.036	mg/L	99%		80-123	1
Sulfate	120.2	74.49	50.00	mg/L	91%	E	79-124	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1281802	Batch:	378517
Matrix (Source ID):	Water (539350-002)	Method:	EPA 300.0	Prep Method:	METHOD

QC1281802 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Fluoride	25.94	4.190	20.00	mg/L	109%		80-129	1	21	1
Chloride	503.0	474.7	100.0	mg/L	28%	E,NM	80-123		20	1
Nitrogen, Nitrite	8.047	ND	9.134	mg/L	88%		80-122	1	21	1
Nitrogen, Nitrate	12.88	3.866	9.036	mg/L	100%		80-123	0	20	1
Sulfate	120.3	74.49	50.00	mg/L	92%	E	79-124		20	1

Type:	Blank	Lab ID:	QC1285401	Batch:	379506
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1285401 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Phenolics	ND		mg/L	0.010	0.0047	08/18/25	08/18/25

Type:	Lab Control Sample	Lab ID:	QC1285402	Batch:	379506
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1285402 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Phenolics	0.07300	0.08000	mg/L	91%		80-120

Type:	Lab Control Sample Duplicate	Lab ID:	QC1285403	Batch:	379506
Matrix:	Water	Method:	EPA 420.1	Prep Method:	METHOD

QC1285403 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Total Phenolics	0.07500	0.08000	mg/L	94%		80-120	3	20

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1282392	Batch: 378693
Matrix: Water	Method: EPA 6010B	Prep Method: EPA 3015A

QC1282392 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.0055	08/08/25	08/08/25
Calcium	ND		mg/L	0.57	0.57	08/08/25	08/08/25
Iron	ND		mg/L	0.046	0.046	08/08/25	08/08/25
Magnesium	ND		mg/L	0.10	0.025	08/08/25	08/08/25
Potassium	ND		mg/L	0.50	0.40	08/08/25	08/08/25
Sodium	ND		mg/L	0.50	0.35	08/08/25	08/08/25

Type: Lab Control Sample	Lab ID: QC1282393	Batch: 378693
Matrix: Water	Method: EPA 6010B	Prep Method: EPA 3015A

QC1282393 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Boron	0.4010	0.4000	mg/L	100%		80-120
Calcium	20.21	20.40	mg/L	99%		80-120
Iron	0.3931	0.4000	mg/L	98%		80-120
Magnesium	20.50	20.40	mg/L	101%		80-120
Potassium	24.06	24.00	mg/L	100%		80-120
Sodium	20.10	20.40	mg/L	99%		80-120

Type: Blank	Lab ID: QC1282404	Batch: 378693
Matrix: Water	Method: EPA 6010B	Prep Method: EPA 3015A

QC1282404 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Boron	ND		mg/L	0.050	0.0055	08/08/25	08/08/25
Calcium	ND		mg/L	0.57	0.57	08/08/25	08/08/25
Iron	ND		mg/L	0.046	0.046	08/08/25	08/08/25
Magnesium	ND		mg/L	0.10	0.025	08/08/25	08/08/25
Potassium	ND		mg/L	0.50	0.40	08/08/25	08/08/25
Sodium	ND		mg/L	0.50	0.35	08/08/25	08/08/25

Type: Matrix Spike	Lab ID: QC1282405	Batch: 378693
Matrix (Source ID): Water (539501-012)	Method: EPA 6010B	Prep Method: EPA 3015A

QC1282405 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Boron	0.3937	ND	0.4000	mg/L	98%		75-125	1
Calcium	19.69	ND	20.40	mg/L	97%		75-125	1
Iron	0.3902	ND	0.4000	mg/L	98%		75-125	1
Magnesium	20.01	ND	20.40	mg/L	98%		75-125	1
Potassium	23.45	ND	24.00	mg/L	98%		75-125	1
Sodium	19.60	ND	20.40	mg/L	96%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1282406	Batch:	378693
Matrix (Source ID):	Water (539501-012)	Method:	EPA 6010B	Prep Method:	EPA 3015A

QC1282406 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Boron	0.3944	ND	0.4000	mg/L	99%		75-125	0	20	1
Calcium	19.75	ND	20.40	mg/L	97%		75-125	0	20	1
Iron	0.3907	ND	0.4000	mg/L	98%		75-125	0	22	1
Magnesium	20.06	ND	20.40	mg/L	98%		75-125	0	20	1
Potassium	23.39	ND	24.00	mg/L	97%		75-125	0	20	1
Sodium	19.58	ND	20.40	mg/L	96%		75-125	0	20	1

Type:	Serial Dilution	Lab ID:	QC1282440	Batch:	378693
Matrix (Source ID):	Water (539539-001)	Method:	EPA 6010B	Prep Method:	EPA 3015A

QC1282440 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Boron	84.08	82.11	mg/L				50
Calcium	6,369	5949	mg/L				50
Iron	836.5	776.6	mg/L				50
Magnesium	785.5	749.4	mg/L				50
Potassium	1,556	1632	mg/L				50
Sodium	4,884	4836	mg/L				50

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1282545	Batch: 378740
Matrix: Water		

QC1282545 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3510C							
alpha-BHC	ND		ug/L	0.05	0.01	08/08/25	08/10/25
beta-BHC	ND		ug/L	0.05	0.01	08/08/25	08/10/25
gamma-BHC	ND		ug/L	0.05	0.009	08/08/25	08/10/25
delta-BHC	ND		ug/L	0.05	0.01	08/08/25	08/10/25
Heptachlor	ND		ug/L	0.05	0.01	08/08/25	08/10/25
Aldrin	ND		ug/L	0.05	0.01	08/08/25	08/10/25
Heptachlor epoxide	ND		ug/L	0.05	0.01	08/08/25	08/10/25
Endosulfan I	ND		ug/L	0.05	0.01	08/08/25	08/10/25
Dieldrin	ND		ug/L	0.1	0.01	08/08/25	08/10/25
4,4'-DDE	ND		ug/L	0.1	0.01	08/08/25	08/10/25
Endrin	ND		ug/L	0.1	0.01	08/08/25	08/10/25
Endosulfan II	ND		ug/L	0.1	0.02	08/08/25	08/10/25
Endosulfan sulfate	ND		ug/L	0.1	0.01	08/08/25	08/10/25
4,4'-DDD	ND		ug/L	0.1	0.01	08/08/25	08/10/25
Endrin aldehyde	ND		ug/L	0.1	0.02	08/08/25	08/10/25
4,4'-DDT	ND		ug/L	0.1	0.04	08/08/25	08/10/25
Chlordane (Technical)	ND		ug/L	1.0	0.2	08/08/25	08/10/25
Methoxychlor	ND		ug/L	0.5	0.03	08/08/25	08/10/25
Toxaphene	ND		ug/L	1.0	0.4	08/08/25	08/10/25
Surrogates				**Limits**			
TCMX	57%		%REC	29-120		08/08/25	08/10/25
Decachlorobiphenyl	131%		%REC	33-132		08/08/25	08/10/25
Method: EPA 8082 Prep Method: EPA 3510C							
Aroclor-1016	ND		ug/L	0.50	0.30	08/08/25	08/10/25
Aroclor-1221	ND		ug/L	0.50	0.47	08/08/25	08/10/25
Aroclor-1232	ND		ug/L	0.50	0.27	08/08/25	08/10/25
Aroclor-1242	ND		ug/L	0.50	0.29	08/08/25	08/10/25
Aroclor-1248	ND		ug/L	0.50	0.24	08/08/25	08/10/25
Aroclor-1254	ND		ug/L	0.50	0.27	08/08/25	08/10/25
Aroclor-1260	ND		ug/L	0.50	0.33	08/08/25	08/10/25
Surrogates				**Limits**			
TCMX (PCB)	58%		%REC	28-120		08/08/25	08/10/25
Decachlorobiphenyl (PCB)	121%		%REC	28-138		08/08/25	08/10/25

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1282546**	**Batch:**	**378740**
Matrix:	**Water**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3510C**

QC1282546 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
gamma-BHC	0.4588	0.5000	ug/L	92%		68-125
Heptachlor	0.4164	0.5000	ug/L	83%		63-120
Aldrin	0.3918	0.5000	ug/L	78%		56-120
Dieldrin	0.4508	0.5000	ug/L	90%		66-124
Endrin	0.4827	0.5000	ug/L	97%		68-135
4,4'-DDT	0.4634	0.5000	ug/L	93%		65-136
Surrogates						
TCMX	0.3058	0.5000	ug/L	61%		29-120
Decachlorobiphenyl	0.5957	0.5000	ug/L	119%		33-132

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1282547**	**Batch:**	**378740**
Matrix:	**Water**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3510C**

QC1282547 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
gamma-BHC	0.4955	0.5000	ug/L	99%		68-125	8	20
Heptachlor	0.4403	0.5000	ug/L	88%		63-120	6	24
Aldrin	0.4002	0.5000	ug/L	80%		56-120	2	30
Dieldrin	0.5107	0.5000	ug/L	102%		66-124	12	22
Endrin	0.5440	0.5000	ug/L	109%		68-135	12	20
4,4'-DDT	0.5296	0.5000	ug/L	106%		65-136	13	23
Surrogates								
TCMX	0.2719	0.5000	ug/L	54%		29-120		
Decachlorobiphenyl	0.6516	0.5000	ug/L	130%		33-132		

Type:	**Lab Control Sample**	**Lab ID:**	**QC1282548**	**Batch:**	**378740**
Matrix:	**Water**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3510C**

QC1282548 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	4.193	5.000	ug/L	84%		69-120
Aroclor-1260	5.050	5.000	ug/L	101%		72-124
Surrogates						
TCMX (PCB)	0.3315	0.5000	ug/L	66%		28-120
Decachlorobiphenyl (PCB)	0.6217	0.5000	ug/L	124%		28-138

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1282549**	**Batch:**	**378740**
Matrix:	**Water**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3510C**

QC1282549 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Aroclor-1016	4.040	5.000	ug/L	81%		69-120	4	22
Aroclor-1260	4.779	5.000	ug/L	96%		72-124	6	25
Surrogates								
TCMX (PCB)	0.3204	0.5000	ug/L	64%		28-120		
Decachlorobiphenyl (PCB)	0.5846	0.5000	ug/L	117%		28-138		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1282550** **Batch: 378740**
Matrix: WET Leachate

QC1282550 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3510C							
alpha-BHC	ND		ug/L	0.10	0.020	08/08/25	08/10/25
beta-BHC	ND		ug/L	0.10	0.024	08/08/25	08/10/25
gamma-BHC	ND		ug/L	0.10	0.018	08/08/25	08/10/25
delta-BHC	ND		ug/L	0.10	0.028	08/08/25	08/10/25
Heptachlor	ND		ug/L	0.10	0.026	08/08/25	08/10/25
Aldrin	ND		ug/L	0.10	0.026	08/08/25	08/10/25
Heptachlor epoxide	ND		ug/L	0.10	0.020	08/08/25	08/10/25
Endosulfan I	ND		ug/L	0.10	0.024	08/08/25	08/10/25
Dieldrin	ND		ug/L	0.20	0.023	08/08/25	08/10/25
4,4'-DDE	ND		ug/L	0.20	0.026	08/08/25	08/10/25
Endrin	ND		ug/L	0.20	0.023	08/08/25	08/10/25
Endosulfan II	ND		ug/L	0.20	0.044	08/08/25	08/10/25
Endosulfan sulfate	ND		ug/L	0.20	0.022	08/08/25	08/10/25
4,4'-DDD	ND		ug/L	0.20	0.024	08/08/25	08/10/25
Endrin aldehyde	ND		ug/L	0.20	0.034	08/08/25	08/10/25
4,4'-DDT	ND		ug/L	0.20	0.073	08/08/25	08/10/25
Chlordane (Technical)	ND		ug/L	2.0	0.45	08/08/25	08/10/25
Methoxychlor	ND		ug/L	1.0	0.058	08/08/25	08/10/25
Toxaphene	ND		ug/L	2.0	0.90	08/08/25	08/10/25
Surrogates				**Limits**			
TCMX	84%		%REC	29-120		08/08/25	08/10/25
Decachlorobiphenyl	137%	*	%REC	33-132		08/08/25	08/10/25
Method: EPA 8082 Prep Method: EPA 3510C							
Aroclor-1016	ND		ug/L	1.0	0.60	08/08/25	08/10/25
Aroclor-1221	ND		ug/L	1.0	0.93	08/08/25	08/10/25
Aroclor-1232	ND		ug/L	1.0	0.54	08/08/25	08/10/25
Aroclor-1242	ND		ug/L	1.0	0.57	08/08/25	08/10/25
Aroclor-1248	ND		ug/L	1.0	0.47	08/08/25	08/10/25
Aroclor-1254	ND		ug/L	1.0	0.53	08/08/25	08/10/25
Aroclor-1260	ND		ug/L	1.0	0.65	08/08/25	08/10/25
Surrogates				**Limits**			
TCMX (PCB)	84%		%REC	28-120		08/08/25	08/10/25
Decachlorobiphenyl (PCB)	125%		%REC	28-138		08/08/25	08/10/25

ENTHALPY ANALYTICAL

Batch QC

Type: Blank **Lab ID: QC1282551** **Batch: 378740**
Matrix: TCLP Leachate

QC1282551 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3510C							
alpha-BHC	ND		ug/L	0.10	0.020	08/08/25	08/10/25
beta-BHC	ND		ug/L	0.10	0.024	08/08/25	08/10/25
gamma-BHC	ND		ug/L	0.10	0.018	08/08/25	08/10/25
delta-BHC	ND		ug/L	0.10	0.028	08/08/25	08/10/25
Heptachlor	ND		ug/L	0.10	0.026	08/08/25	08/10/25
Aldrin	ND		ug/L	0.10	0.026	08/08/25	08/10/25
Heptachlor epoxide	ND		ug/L	0.10	0.020	08/08/25	08/10/25
Endosulfan I	ND		ug/L	0.10	0.024	08/08/25	08/10/25
Dieldrin	ND		ug/L	0.20	0.023	08/08/25	08/10/25
4,4'-DDE	ND		ug/L	0.20	0.026	08/08/25	08/10/25
Endrin	ND		ug/L	0.20	0.023	08/08/25	08/10/25
Endosulfan II	ND		ug/L	0.20	0.044	08/08/25	08/10/25
Endosulfan sulfate	ND		ug/L	0.20	0.022	08/08/25	08/10/25
4,4'-DDD	ND		ug/L	0.20	0.024	08/08/25	08/10/25
Endrin aldehyde	ND		ug/L	0.20	0.034	08/08/25	08/10/25
4,4'-DDT	ND		ug/L	0.20	0.073	08/08/25	08/10/25
Chlordane (Technical)	ND		ug/L	2.0	0.45	08/08/25	08/10/25
Methoxychlor	ND		ug/L	1.0	0.058	08/08/25	08/10/25
Toxaphene	ND		ug/L	2.0	0.90	08/08/25	08/10/25
Surrogates				**Limits**			
TCMX	57%		%REC	29-120		08/08/25	08/10/25
Decachlorobiphenyl	126%		%REC	33-132		08/08/25	08/10/25
Method: EPA 8082 Prep Method: EPA 3510C							
Aroclor-1016	ND		ug/L	1.0	0.60	08/08/25	08/10/25
Aroclor-1221	ND		ug/L	1.0	0.93	08/08/25	08/10/25
Aroclor-1232	ND		ug/L	1.0	0.54	08/08/25	08/10/25
Aroclor-1242	ND		ug/L	1.0	0.57	08/08/25	08/10/25
Aroclor-1248	ND		ug/L	1.0	0.47	08/08/25	08/10/25
Aroclor-1254	ND		ug/L	1.0	0.53	08/08/25	08/10/25
Aroclor-1260	ND		ug/L	1.0	0.65	08/08/25	08/10/25
Surrogates				**Limits**			
TCMX (PCB)	58%		%REC	28-120		08/08/25	08/10/25
Decachlorobiphenyl (PCB)	118%		%REC	28-138		08/08/25	08/10/25

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Batch QC

Type:	Lab Control Sample	Lab ID:	QC1282552	Batch:	378740
Matrix:	TCLP Leachate	Method:	EPA 8081A	Prep Method:	EPA 3510C

QC1282552 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
gamma-BHC	0.9480	1.000	ug/L	95%		68-125
Heptachlor	0.9008	1.000	ug/L	90%		63-120
Aldrin	0.8395	1.000	ug/L	84%		56-120
Dieldrin	0.9986	1.000	ug/L	100%		66-124
Endrin	1.060	1.000	ug/L	106%		68-135
4,4'-DDT	1.075	1.000	ug/L	108%		65-136
Surrogates						
TCMX	0.5697	1.000	ug/L	57%		29-120
Decachlorobiphenyl	1.037	1.000	ug/L	104%		33-132

Type:	Sample Spike	Lab ID:	QC1282553	Batch:	378740
Matrix (Source ID):	TCLP Leachate (537977-004)	Method:	EPA 8081A	Prep Method:	EPA 3510C

QC1282553 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
gamma-BHC	0.8826	ND	1.000	ug/L	88%		41-133	2
Heptachlor	0.8243	ND	1.000	ug/L	82%		34-135	2
Aldrin	0.7590	ND	1.000	ug/L	76%		42-125	2
Dieldrin	0.8873	ND	1.000	ug/L	89%		39-140	2
Endrin	0.9397	ND	1.000	ug/L	94%		41-147	2
4,4'-DDT	0.9369	ND	1.000	ug/L	94%		43-140	2
Surrogates								
TCMX	0.5368		1.000	ug/L	54%		29-120	2
Decachlorobiphenyl	1.174		1.000	ug/L	117%		33-132	2

Type:	Lab Control Sample	Lab ID:	QC1281901	Batch:	378539
Matrix:	Water	Method:	EPA 8260B	Prep Method:	EPA 5030B

QC1281901 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	42.74	50.00	ug/L	85%		69-128
Benzene	54.40	50.00	ug/L	109%		76-121
Trichloroethene	44.54	50.00	ug/L	89%		76-124
Toluene	46.34	50.00	ug/L	93%		76-120
Chlorobenzene	47.85	50.00	ug/L	96%		78-120
Surrogates						
Dibromofluoromethane	50.22	50.00	ug/L	100%		70-130
1,2-Dichloroethane-d4	50.54	50.00	ug/L	101%		70-130
Toluene-d8	46.91	50.00	ug/L	94%		70-130
Bromofluorobenzene	49.57	50.00	ug/L	99%		70-130

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Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1281902**	**Batch:**	**378539**
Matrix:	**Water**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1281902 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	49.29	50.00	ug/L	99%		69-128	14	23
Benzene	55.90	50.00	ug/L	112%		76-121	3	21
Trichloroethene	46.07	50.00	ug/L	92%		76-124	3	22
Toluene	47.91	50.00	ug/L	96%		76-120	3	21
Chlorobenzene	48.58	50.00	ug/L	97%		78-120	2	20
Surrogates								
Dibromofluoromethane	52.77	50.00	ug/L	106%		70-130		
1,2-Dichloroethane-d4	49.54	50.00	ug/L	99%		70-130		
Toluene-d8	46.90	50.00	ug/L	94%		70-130		
Bromofluorobenzene	50.68	50.00	ug/L	101%		70-130		

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Batch QC

Type: Blank	**Lab ID: QC1281906**	**Batch: 378539**
Matrix: Water	**Method: EPA 8260B**	**Prep Method: EPA 5030B**

QC1281906 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chloroprene	ND		ug/L	200	0.3	08/07/25	08/07/25
3-Chloropropene	ND		ug/L	5.0	0.2	08/07/25	08/07/25
Ethyl methacrylate	ND		ug/L	50	2.4	08/07/25	08/07/25
Methyl acrylonitrile	ND		ug/L	35	1.3	08/07/25	08/07/25
Methyl methacrylate	ND		ug/L	5.0	2.4	08/07/25	08/07/25
Vinyl Acetate	ND		ug/L	50	2.5	08/07/25	08/07/25
Acrolein	ND		ug/L	200	1.6	08/07/25	08/07/25
Acrylonitrile	ND		ug/L	10	0.4	08/07/25	08/07/25
Freon 12	ND		ug/L	5.0	0.2	08/07/25	08/07/25
Chloromethane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Vinyl Chloride	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Bromomethane	ND		ug/L	5.0	0.3	08/07/25	08/07/25
Chloroethane	ND		ug/L	5.0	0.05	08/07/25	08/07/25
Trichlorofluoromethane	ND		ug/L	5.0	0.08	08/07/25	08/07/25
Iodomethane	ND		ug/L	10		08/07/25	08/07/25
Acetone	ND		ug/L	100	8.8	08/07/25	08/07/25
1,1-Dichloroethene	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Methylene Chloride	ND		ug/L	10	0.2	08/07/25	08/07/25
Carbon Disulfide	ND		ug/L	5.0	0.3	08/07/25	08/07/25
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.1	08/07/25	08/07/25
1,1-Dichloroethane	ND		ug/L	5.0	0.07	08/07/25	08/07/25
2-Butanone	ND		ug/L	10	0.9	08/07/25	08/07/25
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.09	08/07/25	08/07/25
2,2-Dichloropropane	ND		ug/L	5.0	0.09	08/07/25	08/07/25
Chloroform	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Bromochloromethane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
1,1,1-Trichloroethane	ND		ug/L	5.0	0.03	08/07/25	08/07/25
1,1-Dichloropropene	ND		ug/L	5.0	0.08	08/07/25	08/07/25
Carbon Tetrachloride	ND		ug/L	5.0	0.07	08/07/25	08/07/25
1,2-Dichloroethane	ND		ug/L	5.0	0.09	08/07/25	08/07/25
Benzene	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Trichloroethene	ND		ug/L	5.0	0.05	08/07/25	08/07/25
1,2-Dichloropropane	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Bromodichloromethane	ND		ug/L	5.0	0.05	08/07/25	08/07/25
Dibromomethane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
4-Methyl-2-Pentanone	ND		ug/L	10	0.5	08/07/25	08/07/25
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.08	08/07/25	08/07/25
Toluene	0.06	J	ug/L	5.0	0.05	08/07/25	08/07/25
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.03	08/07/25	08/07/25
1,1,2-Trichloroethane	ND		ug/L	5.0	0.06	08/07/25	08/07/25
2-Hexanone	ND		ug/L	10	0.6	08/07/25	08/07/25
1,3-Dichloropropane	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Tetrachloroethene	ND		ug/L	5.0	0.09	08/07/25	08/07/25
Dibromochloromethane	ND		ug/L	5.0	0.07	08/07/25	08/07/25
Chlorobenzene	ND		ug/L	5.0	0.05	08/07/25	08/07/25
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.06	08/07/25	08/07/25
Ethylbenzene	ND		ug/L	5.0	0.04	08/07/25	08/07/25

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Batch QC

QC1281906 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
m,p-Xylenes	ND		ug/L	5.0	0.1	08/07/25	08/07/25
o-Xylene	ND		ug/L	5.0	0.06	08/07/25	08/07/25
Styrene	ND		ug/L	5.0	0.06	08/07/25	08/07/25
Bromoform	ND		ug/L	5.0	0.08	08/07/25	08/07/25
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.06	08/07/25	08/07/25
1,2,3-Trichloropropane	ND		ug/L	5.0	0.09	08/07/25	08/07/25
1,3-Dichlorobenzene	ND		ug/L	5.0	0.06	08/07/25	08/07/25
1,4-Dichlorobenzene	ND		ug/L	5.0	0.07	08/07/25	08/07/25
1,2-Dichlorobenzene	ND		ug/L	5.0	0.04	08/07/25	08/07/25
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.1	08/07/25	08/07/25
Naphthalene	ND		ug/L	5.0	0.3	08/07/25	08/07/25
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	08/07/25	08/07/25
Xylene (total)	ND		ug/L	5.0		08/07/25	08/07/25
TIC:Acetonitrile	ND		ug/L			08/07/25	08/07/25
TIC:Isobutyl Alcohol	ND		ug/L			08/07/25	08/07/25
TIC:Propionitrile	ND		ug/L			08/07/25	08/07/25
Surrogates				**Limits**			
Dibromofluoromethane	100%		%REC	70-130		08/07/25	08/07/25
1,2-Dichloroethane-d4	92%		%REC	70-130		08/07/25	08/07/25
Toluene-d8	92%		%REC	70-130		08/07/25	08/07/25
Bromofluorobenzene	98%		%REC	70-130		08/07/25	08/07/25

Type: Matrix Spike **Lab ID:** QC1282065 **Batch:** 378539
Matrix (Source ID): Water (538761-002) **Method:** EPA 8260B **Prep Method:** EPA 5030B

QC1282065 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1,1-Dichloroethene	1,087	62.79	1000	ug/L	102%		62-131	50
Benzene	1,073	ND	1000	ug/L	107%		70-123	50
Trichloroethene	925.0	7.585	1000	ug/L	92%		65-131	50
Toluene	921.7	ND	1000	ug/L	92%		69-120	50
Chlorobenzene	946.5	ND	1000	ug/L	95%		72-121	50
Surrogates								
Dibromofluoromethane	2,497		2500	ug/L	100%		70-130	50
1,2-Dichloroethane-d4	2,494		2500	ug/L	100%		70-130	50
Toluene-d8	2,317		2500	ug/L	93%		70-130	50
Bromofluorobenzene	2,478		2500	ug/L	99%		70-130	50

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1282066**	**Batch:**	**378539**
Matrix (Source ID):	**Water (538761-002)**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1282066 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1,1-Dichloroethene	817.5	62.79	1000	ug/L	75%		62-131	28	31	50
Benzene	790.5	ND	1000	ug/L	79%		70-123	30	31	50
Trichloroethene	695.1	7.585	1000	ug/L	69%		65-131	28	31	50
Toluene	682.3	ND	1000	ug/L	68%	*	69-120	30*	29	50
Chlorobenzene	705.0	ND	1000	ug/L	71%	*	72-121	29	29	50
Surrogates										
Dibromofluoromethane	2,458		2500	ug/L	98%		70-130			50
1,2-Dichloroethane-d4	2,497		2500	ug/L	100%		70-130			50
Toluene-d8	2,310		2500	ug/L	92%		70-130			50
Bromofluorobenzene	2,520		2500	ug/L	101%		70-130			50

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1282302	**Batch:** 378673	
Matrix: Water	**Method:** EPA 8270C	**Prep Method:** EPA 3510C	

QC1282302 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
N-Nitrosodimethylamine	ND		ug/L	10	2.8	08/08/25	08/08/25
Phenol	ND		ug/L	10	1.7	08/08/25	08/08/25
bis(2-Chloroethyl)ether	ND		ug/L	25	3.9	08/08/25	08/08/25
2-Chlorophenol	ND		ug/L	10	3.8	08/08/25	08/08/25
Benzyl alcohol	ND		ug/L	10	5.2	08/08/25	08/08/25
2-Methylphenol	ND		ug/L	10	3.3	08/08/25	08/08/25
bis(2-Chloroisopropyl) ether	ND		ug/L	10	4.3	08/08/25	08/08/25
3-,4-Methylphenol	ND		ug/L	10	3.1	08/08/25	08/08/25
N-Nitroso-di-n-propylamine	ND		ug/L	10	4.2	08/08/25	08/08/25
Hexachloroethane	ND		ug/L	10	3.7	08/08/25	08/08/25
Nitrobenzene	ND		ug/L	25	8.4	08/08/25	08/08/25
Isophorone	ND		ug/L	10	4.2	08/08/25	08/08/25
2-Nitrophenol	ND		ug/L	10	4.6	08/08/25	08/08/25
2,4-Dimethylphenol	ND		ug/L	10	3.7	08/08/25	08/08/25
bis(2-Chloroethoxy)methane	ND		ug/L	10	3.9	08/08/25	08/08/25
2,4-Dichlorophenol	ND		ug/L	10	4.4	08/08/25	08/08/25
4-Chloroaniline	ND		ug/L	10	3.6	08/08/25	08/08/25
Hexachlorobutadiene	ND		ug/L	10	3.3	08/08/25	08/08/25
4-Chloro-3-methylphenol	ND		ug/L	10	3.9	08/08/25	08/08/25
2-Methylnaphthalene	ND		ug/L	10	3.6	08/08/25	08/08/25
Hexachlorocyclopentadiene	ND		ug/L	25	10	08/08/25	08/08/25
2,4,6-Trichlorophenol	ND		ug/L	10	4.4	08/08/25	08/08/25
2,4,5-Trichlorophenol	ND		ug/L	10	4.0	08/08/25	08/08/25
2-Chloronaphthalene	ND		ug/L	10	3.9	08/08/25	08/08/25
2-Nitroaniline	ND		ug/L	50	3.4	08/08/25	08/08/25
Dimethylphthalate	ND		ug/L	10	4.0	08/08/25	08/08/25
Acenaphthylene	ND		ug/L	10	4.7	08/08/25	08/08/25
2,6-Dinitrotoluene	ND		ug/L	10	3.9	08/08/25	08/08/25
3-Nitroaniline	ND		ug/L	10	3.6	08/08/25	08/08/25
Acenaphthene	ND		ug/L	10	3.6	08/08/25	08/08/25
2,4-Dinitrophenol	ND		ug/L	50	7.7	08/08/25	08/08/25
4-Nitrophenol	ND		ug/L	10	5.6	08/08/25	08/08/25
Dibenzofuran	ND		ug/L	10	3.6	08/08/25	08/08/25
2,4-Dinitrotoluene	ND		ug/L	10	3.3	08/08/25	08/08/25
Diethylphthalate	ND		ug/L	10	3.1	08/08/25	08/08/25
Fluorene	ND		ug/L	10	3.4	08/08/25	08/08/25
4-Chlorophenyl-phenylether	ND		ug/L	10	3.7	08/08/25	08/08/25
4-Nitroaniline	ND		ug/L	10	3.2	08/08/25	08/08/25
4,6-Dinitro-2-methylphenol	ND		ug/L	50	13	08/08/25	08/08/25
N-Nitrosodiphenylamine	ND		ug/L	10	5.8	08/08/25	08/08/25
1,2-diphenylhydrazine (as azobenzene)	ND		ug/L	10	3.8	08/08/25	08/08/25
4-Bromophenyl-phenylether	ND		ug/L	10	4.0	08/08/25	08/08/25
Hexachlorobenzene	ND		ug/L	10	3.6	08/08/25	08/08/25
Pentachlorophenol	ND		ug/L	25	3.2	08/08/25	08/08/25
Phenanthrene	ND		ug/L	10	2.7	08/08/25	08/08/25
Anthracene	ND		ug/L	10	2.6	08/08/25	08/08/25
Di-n-butylphthalate	ND		ug/L	10	1.7	08/08/25	08/08/25

ENTHALPY ANALYTICAL

Batch QC

QC1282302 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Fluoranthene	ND		ug/L	10	1.6	08/08/25	08/08/25
Pyrene	ND		ug/L	10	1.9	08/08/25	08/08/25
Butylbenzylphthalate	ND		ug/L	10	2.2	08/08/25	08/08/25
3,3'-Dichlorobenzidine	ND		ug/L	25	3.5	08/08/25	08/08/25
Benzo(a)anthracene	ND		ug/L	10	0.99	08/08/25	08/08/25
Chrysene	ND		ug/L	10	1.2	08/08/25	08/08/25
bis(2-Ethylhexyl)phthalate	ND		ug/L	10	3.3	08/08/25	08/08/25
Di-n-octylphthalate	ND		ug/L	10	1.3	08/08/25	08/08/25
Benzo(b)fluoranthene	ND		ug/L	10	1.2	08/08/25	08/08/25
Benzo(k)fluoranthene	ND		ug/L	10	1.4	08/08/25	08/08/25
Benzo(a)pyrene	ND		ug/L	10	1.4	08/08/25	08/08/25
Indeno(1,2,3-cd)pyrene	ND		ug/L	10	1.2	08/08/25	08/08/25
Dibenz(a,h)anthracene	ND		ug/L	10	1.5	08/08/25	08/08/25
Benzo(g,h,i)perylene	ND		ug/L	10	1.5	08/08/25	08/08/25
TIC:1,2,4,5-Tetrachlorobenzene	ND		ug/L			08/08/25	08/08/25
TIC:1,3,5-Trinitrobenzene	ND		ug/L			08/08/25	08/08/25
TIC:1,4-Naphthoquinone	ND		ug/L			08/08/25	08/08/25
TIC:1-Naphthylamine	ND		ug/L			08/08/25	08/08/25
TIC:2,3,4,6-Tetrachlorophenol	ND		ug/L			08/08/25	08/08/25
TIC:2,6-Dichlorophenol	ND		ug/L			08/08/25	08/08/25
TIC:2-Acetylaminofluorene	ND		ug/L			08/08/25	08/08/25
TIC:2-Naphthylamine	ND		ug/L			08/08/25	08/08/25
TIC:3,3'-Dimethylbenzidine	ND		ug/L			08/08/25	08/08/25
TIC:3-Methylcholanthrene	ND		ug/L			08/08/25	08/08/25
TIC:4-Aminobiphenyl	ND		ug/L			08/08/25	08/08/25
TIC:5-Nitro-o-toluidine	ND		ug/L			08/08/25	08/08/25
TIC:7,12-Dimethylbenz[a]anthracene	ND		ug/L			08/08/25	08/08/25
TIC:Acetophenone	ND		ug/L			08/08/25	08/08/25
TIC:Chlorobenzilate	ND		ug/L			08/08/25	08/08/25
TIC:Diallate	ND		ug/L			08/08/25	08/08/25
TIC:Dimethoate	ND		ug/L			08/08/25	08/08/25
TIC:Dinoseb	ND		ug/L			08/08/25	08/08/25
TIC:Diphenylamine	ND		ug/L			08/08/25	08/08/25
TIC:Disulfoton	ND		ug/L			08/08/25	08/08/25
TIC:Ethyl methanesulfonate	ND		ug/L			08/08/25	08/08/25
TIC:Famphur	ND		ug/L			08/08/25	08/08/25
TIC:Hexachloropropene	ND		ug/L			08/08/25	08/08/25
TIC:Isodrin	ND		ug/L			08/08/25	08/08/25
TIC:Isosafrole	ND		ug/L			08/08/25	08/08/25
TIC:Kepone	ND		ug/L			08/08/25	08/08/25
TIC:Methapyrilene	ND		ug/L			08/08/25	08/08/25
TIC:Methyl methanesulfonate	ND		ug/L			08/08/25	08/08/25
TIC:Methyl parathion	ND		ug/L			08/08/25	08/08/25
TIC:N-Nitrosodi-n-butylamine	ND		ug/L			08/08/25	08/08/25
TIC:N-Nitrosodiethylamine	ND		ug/L			08/08/25	08/08/25
TIC:N-Nitrosomethylethylamine	ND		ug/L			08/08/25	08/08/25
TIC:N-Nitrosopiperidine	ND		ug/L			08/08/25	08/08/25
TIC:N-Nitrosopyrrolidine	ND		ug/L			08/08/25	08/08/25
TIC:Parathion ethyl	ND		ug/L			08/08/25	08/08/25
TIC:Pentachlorobenzene	ND		ug/L			08/08/25	08/08/25
TIC:Pentachloronitrobenzene	ND		ug/L			08/08/25	08/08/25
TIC:Phenacetin	ND		ug/L			08/08/25	08/08/25

ENTHALPY ANALYTICAL

Batch QC

QC1282302 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
TIC:Phorate	ND		ug/L			08/08/25	08/08/25
TIC:Pronamide	ND		ug/L			08/08/25	08/08/25
TIC:Safrole	ND		ug/L			08/08/25	08/08/25
TIC:Thionazin	ND		ug/L			08/08/25	08/08/25
TIC:m-Dinitrobenzene	ND		ug/L			08/08/25	08/08/25
TIC:o,o,o-Triethyl phosphorothioate	ND		ug/L			08/08/25	08/08/25
TIC:o-Toluidine	ND		ug/L			08/08/25	08/08/25
TIC:p-(Dimethylamino) azobenzene	ND		ug/L			08/08/25	08/08/25
TIC:p-Phenylenediamine	ND		ug/L			08/08/25	08/08/25
Surrogates				**Limits**			
2-Fluorophenol	56%		%REC	15-120		08/08/25	08/08/25
Phenol-d6	34%		%REC	15-120		08/08/25	08/08/25
2,4,6-Tribromophenol	90%		%REC	15-140		08/08/25	08/08/25
Nitrobenzene-d5	84%		%REC	15-123		08/08/25	08/08/25
2-Fluorobiphenyl	83%		%REC	15-120		08/08/25	08/08/25
Terphenyl-d14	98%		%REC	15-120		08/08/25	08/08/25

Type: Lab Control Sample **Lab ID:** QC1282303 **Batch:** 378673
Matrix: Water **Method:** EPA 8270C **Prep Method:** EPA 3510C

QC1282303 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	31.14	75.00	ug/L	42%		14-120
2-Chlorophenol	64.02	75.00	ug/L	85%		46-120
1,4-Dichlorobenzene	56.32	75.00	ug/L	75%		42-120
3-,4-Methylphenol	62.73	75.00	ug/L	84%		40-120
N-Nitroso-di-n-propylamine	75.47	75.00	ug/L	101%		54-121
2,4-Dimethylphenol	69.42	75.00	ug/L	93%		48-120
1,2,4-Trichlorobenzene	58.53	75.00	ug/L	78%		45-120
4-Chloro-3-methylphenol	75.45	75.00	ug/L	101%		60-121
2,4,5-Trichlorophenol	72.11	75.00	ug/L	96%		62-124
Acenaphthene	66.38	75.00	ug/L	89%		56-120
4-Nitrophenol	32.64	75.00	ug/L	44%		17-120
2,4-Dinitrotoluene	74.40	75.00	ug/L	99%		69-127
Pentachlorophenol	63.62	75.00	ug/L	85%		51-120
Pyrene	69.17	75.00	ug/L	92%		68-123
Chrysene	71.21	75.00	ug/L	95%		66-120
Benzo(b)fluoranthene	74.39	75.00	ug/L	99%		67-120
Surrogates						
2-Fluorophenol	22.62	40.00	ug/L	57%		15-120
Phenol-d6	15.14	40.00	ug/L	38%		15-120
2,4,6-Tribromophenol	40.04	40.00	ug/L	100%		15-140
Nitrobenzene-d5	35.75	40.00	ug/L	89%		15-123
2-Fluorobiphenyl	33.21	40.00	ug/L	83%		15-120
Terphenyl-d14	36.90	40.00	ug/L	92%		15-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1282304**	**Batch:**	**378673**
Matrix:	**Water**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3510C**

QC1282304 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Phenol	30.80	75.00	ug/L	41%		14-120	1	52
2-Chlorophenol	64.91	75.00	ug/L	87%		46-120	1	52
1,4-Dichlorobenzene	59.90	75.00	ug/L	80%		42-120	6	53
3-,4-Methylphenol	62.60	75.00	ug/L	83%		40-120	0	51
N-Nitroso-di-n-propylamine	76.70	75.00	ug/L	102%		54-121	2	52
2,4-Dimethylphenol	69.63	75.00	ug/L	93%		48-120	0	52
1,2,4-Trichlorobenzene	60.73	75.00	ug/L	81%		45-120	4	54
4-Chloro-3-methylphenol	79.96	75.00	ug/L	107%		60-121	6	47
2,4,5-Trichlorophenol	76.30	75.00	ug/L	102%		62-124	6	46
Acenaphthene	71.08	75.00	ug/L	95%		56-120	7	46
4-Nitrophenol	36.46	75.00	ug/L	49%		17-120	11	44
2,4-Dinitrotoluene	83.30	75.00	ug/L	111%		69-127	11	40
Pentachlorophenol	70.89	75.00	ug/L	95%		51-120	11	42
Pyrene	79.18	75.00	ug/L	106%		68-123	13	39
Chrysene	76.73	75.00	ug/L	102%		66-120	7	38
Benzo(b)fluoranthene	81.67	75.00	ug/L	109%		67-120	9	39
Surrogates								
2-Fluorophenol	23.27	40.00	ug/L	58%		15-120		
Phenol-d6	15.19	40.00	ug/L	38%		15-120		
2,4,6-Tribromophenol	42.80	40.00	ug/L	107%		15-140		
Nitrobenzene-d5	35.94	40.00	ug/L	90%		15-123		
2-Fluorobiphenyl	34.46	40.00	ug/L	86%		15-120		
Terphenyl-d14	42.27	40.00	ug/L	106%		15-120		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1282107	Batch: 378614
Matrix: Water		

QC1282107 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 6020 Prep Method: EPA 3015A							
Antimony	ND		ug/L	2.0	0.31	08/07/25	08/07/25
Arsenic	ND		ug/L	2.0	0.21	08/07/25	08/07/25
Barium	ND		ug/L	5.0	0.33	08/07/25	08/07/25
Beryllium	ND		ug/L	1.0	0.062	08/07/25	08/07/25
Cadmium	ND		ug/L	1.0	0.11	08/07/25	08/07/25
Chromium	ND		ug/L	5.0	0.34	08/07/25	08/07/25
Cobalt	ND		ug/L	1.0	0.068	08/07/25	08/07/25
Copper	ND		ug/L	3.0	0.71	08/07/25	08/07/25
Lead	ND		ug/L	5.0	0.16	08/07/25	08/07/25
Manganese	ND		ug/L	10	1.7	08/07/25	08/07/25
Nickel	ND		ug/L	5.0	1.3	08/07/25	08/07/25
Selenium	ND		ug/L	2.0	1.6	08/07/25	08/07/25
Tin	0.411	J	ug/L	5.00	0.328	08/07/25	08/07/25
Silver	ND		ug/L	5.0	0.50	08/07/25	08/07/25
Thallium	ND		ug/L	1.0	0.42	08/07/25	08/07/25
Vanadium	ND		ug/L	5.0	0.26	08/07/25	08/07/25
Zinc	ND		ug/L	10	7.6	08/07/25	08/07/25
Method: SM 2340B Prep Method: EPA 3015A							
Hardness as CaCO3	ND		mg/L	3.3		08/07/25	08/07/25

Type: Lab Control Sample	Lab ID: QC1282108	Batch: 378614
Matrix: Water	Method: EPA 6020	Prep Method: EPA 3015A

QC1282108 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	116.9	100.0	ug/L	117%		80-120
Arsenic	100.3	100.0	ug/L	100%		80-120
Barium	98.74	100.0	ug/L	99%		80-120
Beryllium	90.65	100.0	ug/L	91%		80-120
Cadmium	100.3	100.0	ug/L	100%		80-120
Chromium	99.36	100.0	ug/L	99%		80-120
Cobalt	102.8	100.0	ug/L	103%		80-120
Copper	101.7	100.0	ug/L	102%		80-120
Lead	97.27	100.0	ug/L	97%		80-120
Manganese	101.1	100.0	ug/L	101%		80-120
Nickel	101.2	100.0	ug/L	101%		80-120
Selenium	104.7	100.0	ug/L	105%		80-120
Tin	105.3	100.0	ug/L	105%		80-120
Silver	49.30	50.00	ug/L	99%		80-120
Thallium	94.86	100.0	ug/L	95%		80-120
Vanadium	99.40	100.0	ug/L	99%		80-120
Zinc	99.10	100.0	ug/L	99%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1282109	Batch:	378614
Matrix (Source ID):	Water (539405-011)	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1282109 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	1,296	ND	1000	ug/L	130%	*	75-125	10
Arsenic	1,029	7.370	1000	ug/L	102%		75-125	10
Barium	1,063	93.79	1000	ug/L	97%		75-125	10
Beryllium	1,084	ND	1000	ug/L	108%		75-125	10
Cadmium	945.2	ND	1000	ug/L	95%		75-125	10
Chromium	908.8	ND	1000	ug/L	91%		75-125	10
Cobalt	923.0	2.740	1000	ug/L	92%		75-125	10
Copper	896.3	ND	1000	ug/L	90%		75-125	10
Lead	959.3	ND	1000	ug/L	96%		75-125	10
Manganese	2,841	2028	1000	ug/L	81%		75-125	10
Nickel	895.4	ND	1000	ug/L	90%		75-125	10
Selenium	1,047	ND	1000	ug/L	105%		75-125	10
Tin	957.3	3.770	1000	ug/L	95%		75-125	10
Silver	462.8	ND	500.0	ug/L	93%		75-125	10
Thallium	943.6	ND	1000	ug/L	94%		75-125	10
Vanadium	962.8	4.600	1000	ug/L	96%		75-125	10
Zinc	949.4	ND	1000	ug/L	95%		75-125	10

Type:	Matrix Spike Duplicate	Lab ID:	QC1282110	Batch:	378614
Matrix (Source ID):	Water (539405-011)	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1282110 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	1,307	ND	1000	ug/L	131%	*	75-125	1	20	10
Arsenic	1,026	7.370	1000	ug/L	102%		75-125	0	20	10
Barium	1,078	93.79	1000	ug/L	98%		75-125	1	20	10
Beryllium	1,072	ND	1000	ug/L	107%		75-125	1	20	10
Cadmium	952.2	ND	1000	ug/L	95%		75-125	1	20	10
Chromium	913.5	ND	1000	ug/L	91%		75-125	1	20	10
Cobalt	921.8	2.740	1000	ug/L	92%		75-125	0	20	10
Copper	891.2	ND	1000	ug/L	89%		75-125	1	20	10
Lead	977.2	ND	1000	ug/L	98%		75-125	2	20	10
Manganese	2,849	2028	1000	ug/L	82%		75-125	0	20	10
Nickel	883.7	ND	1000	ug/L	88%		75-125	1	20	10
Selenium	1,054	ND	1000	ug/L	105%		75-125	1	21	10
Tin	971.7	3.770	1000	ug/L	97%		75-125	1	20	10
Silver	461.5	ND	500.0	ug/L	92%		75-125	0	25	10
Thallium	943.6	ND	1000	ug/L	94%		75-125	0	20	10
Vanadium	959.6	4.600	1000	ug/L	96%		75-125	0	20	10
Zinc	944.5	ND	1000	ug/L	94%		75-125	1	20	10

ENTHALPY ANALYTICAL

Batch QC

Type:	Serial Dilution	Lab ID:	QC1282135	Batch:	378614
Matrix (Source ID):	Water (539405-011)	Method:	EPA 6020	Prep Method:	EPA 3015A

QC1282135 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Antimony	ND	ND	ug/L				50
Arsenic	ND	7.370	ug/L				50
Barium	96.95	93.79	ug/L	J			50
Beryllium	ND	ND	ug/L				50
Cadmium	ND	ND	ug/L				50
Chromium	ND	ND	ug/L				50
Cobalt	ND	2.740	ug/L				50
Copper	ND	ND	ug/L				50
Lead	ND	ND	ug/L				50
Manganese	2,077	2028	ug/L				50
Nickel	ND	ND	ug/L				50
Selenium	ND	ND	ug/L				50
Tin	ND	3.770	ug/L				50
Silver	ND	ND	ug/L				50
Thallium	ND	ND	ug/L				50
Vanadium	ND	4.600	ug/L				50
Zinc	ND	ND	ug/L				50

Type:	Blank	Lab ID:	QC1282701	Batch:	378777
Matrix:	Water	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282701 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Cyanide	ND		mg/L	0.0050	0.0021	08/09/25	08/11/25

Type:	Lab Control Sample	Lab ID:	QC1282702	Batch:	378777
Matrix:	Water	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282702 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Cyanide	0.1005	0.1000	mg/L	101%		85-115

Type:	Matrix Spike	Lab ID:	QC1282703	Batch:	378777
Matrix (Source ID):	Water (539212-001)	Method:	SM 4500-CN-E	Prep Method:	METHOD

QC1282703 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	-0.0004176	ND	0.1000	mg/L	0%	ND,NM	80-120	0.5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1282704**	**Batch:**	**378777**
Matrix (Source ID):	**Water (539212-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1282704 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	-0.0001973	ND	0.1000	mg/L	0%	ND,NM	80-120	72*	20	0.5

Type:	**Matrix Spike**	**Lab ID:**	**QC1282705**	**Batch:**	**378777**
Matrix (Source ID):	**Water (539214-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1282705 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Cyanide	0.09481	ND	0.1000	mg/L	95%		80-120	0.5

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1282706**	**Batch:**	**378777**
Matrix (Source ID):	**Water (539214-001)**	**Method:**	**SM 4500-CN-E**	**Prep Method:**	**METHOD**

QC1282706 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Cyanide	0.09649	ND	0.1000	mg/L	96%		80-120	2	20	0.5

Type:	**Blank**	**Lab ID:**	**QC1283036**	**Batch:**	**378874**
Matrix:	**Water**	**Method:**	**SM 4500-P-B2-E**		

QC1283036 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Phosphate as P	ND		mg/L	0.020	0.010	08/11/25	08/13/25
Total Phosphate as PO4	ND		mg/L	0.060	0.031	08/11/25	08/13/25

Type:	**Lab Control Sample**	**Lab ID:**	**QC1283037**	**Batch:**	**378874**
Matrix:	**Water**	**Method:**	**SM 4500-P-B2-E**		

QC1283037 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Phosphate as P	0.4000	0.4000	mg/L	100%		80-120
Total Phosphate as PO4	1.226	1.230	mg/L	100%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC1283038**	**Batch:**	**378874**
Matrix (Source ID):	**Drinking Water (539378-008)**	**Method:**	**SM 4500-P-B2-E**		

QC1283038 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Phosphate as P	0.5270	0.1350	0.4000	mg/L	98%		75-125	1
Total Phosphate as PO4	1.616	0.4140	1.230	mg/L	98%		75-125	1

ENTHALPY ANALYTICAL

Batch QC

Type: Matrix Spike Duplicate **Lab ID:** QC1283039 **Batch:** 378874
Matrix (Source ID): Drinking Water (539378-008) **Method:** SM 4500-P-B2-E

QC1283039 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Phosphate as P	0.5250	0.1350	0.4000	mg/L	98%		75-125	0	20	1
Total Phosphate as PO4	1.610	0.4140	1.230	mg/L	97%		75-125	0	20	1

Type: Blank **Lab ID:** QC1283032 **Batch:** 378873
Matrix: Water **Method:** SM 4500-P-B5-E

QC1283032 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Phosphorus	ND		mg/L	0.020	0.012	08/11/25	08/19/25

Type: Lab Control Sample **Lab ID:** QC1283033 **Batch:** 378873
Matrix: Water **Method:** SM 4500-P-B5-E

QC1283033 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phosphorus	0.3990	0.4000	mg/L	100%		80-120

Type: Matrix Spike **Lab ID:** QC1283034 **Batch:** 378873
Matrix (Source ID): Water (539373-004) **Method:** SM 4500-P-B5-E

QC1283034 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phosphorus	0.4140	ND	0.4000	mg/L	104%		75-125	1

Type: Matrix Spike Duplicate **Lab ID:** QC1283035 **Batch:** 378873
Matrix (Source ID): Water (539373-004) **Method:** SM 4500-P-B5-E

QC1283035 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phosphorus	0.4040	ND	0.4000	mg/L	101%		75-125	2	20	1

Type: Blank **Lab ID:** QC1282253 **Batch:** 378661
Matrix: Water **Method:** SM 4500-S2-D **Prep Method:** METHOD

QC1282253 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Sulfide	ND		mg/L	0.10		08/07/25	08/07/25

Type: Lab Control Sample **Lab ID:** QC1282254 **Batch:** 378661
Matrix: Water **Method:** SM 4500-S2-D **Prep Method:** METHOD

QC1282254 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfide	0.9000	1.000	mg/L	90%		90-110

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1282255	Batch:	378661
Matrix (Source ID):	Water (539423-004)	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282255 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1282256	Batch:	378661
Matrix (Source ID):	Water (539423-004)	Method:	SM 4500-S2-D	Prep Method:	METHOD

QC1282256 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfide	0.9000	ND	1.000	mg/L	90%		80-120	0	20	1

Type:	Blank	Lab ID:	QC1284915	Batch:	379402
Matrix:	Water	Method:	SM 5310B	Prep Method:	SM 5310B

QC1284915 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Organic Carbon	ND		mg/L	1.0	0.24	08/15/25	08/18/25

Type:	Lab Control Sample	Lab ID:	QC1284916	Batch:	379402
Matrix:	Water	Method:	SM 5310B	Prep Method:	SM 5310B

QC1284916 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Organic Carbon	24.13	25.00	mg/L	97%		85-115

Type:	Matrix Spike	Lab ID:	QC1284917	Batch:	379402
Matrix (Source ID):	Water (539271-003)	Method:	SM 5310B	Prep Method:	SM 5310B

QC1284917 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Total Organic Carbon	27.63	1.762	25.00	mg/L	103%		75-125	1

Type:	Matrix Spike Duplicate	Lab ID:	QC1284918	Batch:	379402
Matrix (Source ID):	Water (539271-003)	Method:	SM 5310B	Prep Method:	SM 5310B

QC1284918 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Total Organic Carbon	27.35	1.762	25.00	mg/L	102%		75-125	1	25	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1285790	Batch: 379643
Matrix: Water	Method: SM2320B	Prep Method: METHOD

QC1285790 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Alkalinity, Total as CaCO3	ND		mg/L	2.0		08/19/25	08/19/25
Bicarbonate	ND		mg/L	2.0		08/19/25	08/19/25
Carbonate	ND		mg/L	2.0		08/19/25	08/19/25
Hydroxide	ND		mg/L	2.0		08/19/25	08/19/25

Type: Lab Control Sample	Lab ID: QC1285791	Batch: 379643
Matrix: Water	Method: SM2320B	Prep Method: METHOD

QC1285791 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Alkalinity, Total as CaCO3	974.2	1000	mg/L	97%		90-110

Type: Sample Duplicate	Lab ID: QC1285792	Batch: 379643
Matrix (Source ID): Water (539350-002)	Method: SM2320B	Prep Method: METHOD

QC1285792 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Alkalinity, Total as CaCO3	17.52	18.10	mg/L		3	20	1
Bicarbonate	21.37	22.08	mg/L		3	20	1
Carbonate	ND	ND	mg/L			20	1
Hydroxide	ND	ND	mg/L			20	1

Type: Sample Duplicate	Lab ID: QC1282648	Batch: 378768
Matrix (Source ID): Water (539350-002)	Method: SM2510B	Prep Method: METHOD

QC1282648 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Specific Conductance	1,874	1864	umhos/cm		1	20	1

Type: Sample Duplicate	Lab ID: QC1282649	Batch: 378768
Matrix (Source ID): Water (539474-001)	Method: SM2510B	Prep Method: METHOD

QC1282649 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Specific Conductance	42,880	42790	umhos/cm		0	20	1

Type: Blank	Lab ID: QC1282849	Batch: 378814
Matrix: Water	Method: SM2540C	Prep Method: METHOD

QC1282849 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Total Dissolved Solids	ND		mg/L	10		08/11/25	08/12/25

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1282850**	**Batch:**	**378814**
Matrix:	**Water**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1282850 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Total Dissolved Solids	1,018	1000	mg/L	102%		90-110

Type:	**Sample Duplicate**	**Lab ID:**	**QC1282851**	**Batch:**	**378814**
Matrix (Source ID):	**Water (539083-001)**	**Method:**	**SM2540C**	**Prep Method:**	**METHOD**

QC1282851 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Total Dissolved Solids	2,656	2688	mg/L		1	5	2

Type:	**Blank**	**Lab ID:**	**QC1285682**	**Batch:**	**379604**
Matrix:	**Water**	**Method:**	**SM5220D**	**Prep Method:**	**METHOD**

QC1285682 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Chemical Oxygen Demand	ND		mg/L	4.0	2.0	08/19/25	08/19/25

Type:	**Lab Control Sample**	**Lab ID:**	**QC1285683**	**Batch:**	**379604**
Matrix:	**Water**	**Method:**	**SM5220D**	**Prep Method:**	**METHOD**

QC1285683 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Chemical Oxygen Demand	102.0	100.0	mg/L	102%		90-110

Type:	**Matrix Spike**	**Lab ID:**	**QC1285885**	**Batch:**	**379604**
Matrix (Source ID):	**Water (539689-002)**	**Method:**	**SM5220D**	**Prep Method:**	**METHOD**

QC1285885 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Chemical Oxygen Demand	104.0	ND	100.0	mg/L	104%		75-125	2

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1285886**	**Batch:**	**379604**
Matrix (Source ID):	**Water (539689-002)**	**Method:**	**SM5220D**	**Prep Method:**	**METHOD**

QC1285886 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Chemical Oxygen Demand	100.0	ND	100.0	mg/L	100%		75-125	4	20	2

* Value is outside QC limits

E Response exceeds instrument's linear range

J Estimated value

ND Not Detected

NM Not Meaningful

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 543880
Report Level : II
Report Date : 10/22/2025

Analytical Report *prepared for:*

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Project: BADLANDS - Badlands

Authorized for release by:



Zach Barker, Project Manager
zach.barker@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

ENTHALPY ANALYTICAL

Sample Summary

Panda Workman Riverside County 14310 Frederick Street Moreno Valley, CA 92553		Lab Job #: Project No: Location: Date Received:	543880 BADLANDS Badlands 10/08/25

Sample ID	Lab ID	Collected	Matrix
BD-04	543880-001	10/07/25 10:20	Water

ENTHALPY ANALYTICAL

Case Narrative

Riverside County 14310 Frederick Street Moreno Valley, CA 92553 Panda Workman	Lab Job Number: 543880 Project No: BADLANDS Location: Badlands Date Received: 10/08/25

This data package contains sample and QC results for one water sample, requested for the above referenced project on 10/08/25. The sample was received in good condition.

Ion Chromatography (EPA 300.0):
No analytical problems were encountered.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 543880

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Riverside County Waste Resources	Quote #:	
Report To:	Panda Workman/Simon Chang	Proj. Name:	Badlands
Email:	WasteLabSumittals@rivco.org	Proj. #:	
Address:	14310 Frederick Street	P.O. #:	
	Moreno Valley, CA	Address:	
Phone:	951.486.3200	Global ID:	L10003146754
Fax:		Sampled By:	Mauricio G. Gonzalez

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Sulfate	Test Instructions / Comments
1	BD-04	10/07/25	10:20 AM	W	1 / Large		X	1 Sample Bottles
2								
3								
4								
5								
6								
7								
8								
9								
10								

1218
2.4 1.4

Login 543880

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Mauricio G. Gonzalez	RCDWR / Engineering Tech. I	10-07-25 / 04:30 PM
[1] Received By:			EA	10/8/25 1400
[2] Relinquished By:			EA	10/8/25 1603
[2] Received By:	AdDj	Adam Dinkmeyer	EA	10/8/25 1603
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 10/8/25 WO# 543880 Client: RIVERSIDE COUNTY

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☒ No

Custody seals intact on arrival? ■ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

■ Courier ☐ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened 10/8/25 By (initials) RRS Type of ice used: ■ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR 18 CF: -0.7

Cooler Temp (°C) #1: 2.4 / 1.7 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ■ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ■ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	X		
2) Is the sampler's name present on the CoC?	X		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			X
5) Were all of, and only, the correct samples received?	X		
6) Are sample labels present, legible, and in agreement with the CoC?	X		
7) Does the container count match the CoC?	X		
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	X		
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			X
13) Are VOA vials free from headspace/bubbles > 6mm?			X

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

☐ **No additional discrepancies**

Date Logged 10/8/25 **By (print)** NCM **(sign)** _____

Date Labeled 10/8/25 **By (print)** RRS **(sign)** Adaj for RRS

ENTHALPY ANALYTICAL

Analysis Results for 543880

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Lab Job #: 543880
Project No: BADLANDS
Location: Badlands
Date Received: 10/08/25

Sample ID: BD-04 **Lab ID: 543880-001** **Collected: 10/07/25 10:20**
Matrix: Water

543880-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 300.0 Prep Method: METHOD										
Sulfate	**22**		mg/L	1.0	0.18	1	384014	10/08/25 15:33	10/09/25 04:34	KUM

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1301285	**Batch:** 384014
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1301285 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Sulfate	ND		mg/L	1.0	0.18	10/08/25 15:33	10/08/25 15:53

Type: Lab Control Sample	**Lab ID:** QC1301286	**Batch:** 384014
Matrix: Water	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1301286 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Sulfate	24.71	25.00	mg/L	99%		90-110

Type: Matrix Spike	**Lab ID:** QC1301287	**Batch:** 384014
Matrix (Source ID): Water (543855-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1301287 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfate	970.7	1753	50.00	mg/L	-1565%	E,NM	79-124	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1301288	**Batch:** 384014
Matrix (Source ID): Water (543855-001)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1301288 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfate	970.8	1753	50.00	mg/L	-1564%	E,NM	79-124		20	1

Type: Matrix Spike	**Lab ID:** QC1301349	**Batch:** 384014
Matrix (Source ID): Water (543801-015)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1301349 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Sulfate	962.0	1718	50.00	mg/L	-1513%	E,NM	79-124	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1301350	**Batch:** 384014
Matrix (Source ID): Water (543801-015)	**Method:** EPA 300.0	**Prep Method:** METHOD

QC1301350 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Sulfate	961.9	1718	50.00	mg/L	-1513%	E,NM	79-124		20	1

E	Response exceeds instrument's linear range
ND	Not Detected
NM	Not Meaningful

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number : 544058
Report Level : II
Report Date : 10/24/2025

Analytical Report *prepared for:*

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Project: BADLANDS - Badlands

Authorized for release by:

Zach Barker, Project Manager
zach.barker@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

ENTHALPY ANALYTICAL

Sample Summary

Panda Workman Riverside County 14310 Frederick Street Moreno Valley, CA 92553		Lab Job #: Project No: Location: Date Received:	544058 BADLANDS Badlands 10/10/25

Sample ID	Lab ID	Collected	Matrix
BL-03	544058-001	10/09/25 10:50	Water

ENTHALPY ANALYTICAL

Case Narrative

Riverside County 14310 Frederick Street Moreno Valley, CA 92553 Panda Workman	Lab Job Number: 544058 Project No: BADLANDS Location: Badlands Date Received: 10/10/25

This data package contains sample and QC results for one water sample, requested for the above referenced project on 10/10/25. The sample was received in good condition.

Metals (EPA 6010B):
No analytical problems were encountered.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 544058

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Riverside County Waste Resources	Quote #:	
Report To:	Panda Workman/Simon Chang	Proj. Name:	Badlands
Email:	WasteLabSumittals@rivco.org	Proj. #:	
Address:	14310 Frederick Street	P.O. #:	
	Moreno Valley, CA	Address:	
Phone:	951.486.3200	Global ID:	L10003146754
Fax:		Sampled By:	Mauricio G. Gonzalez

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Potassium	Test Instructions / Comments
1	BL-03	10/09/25	10:50 AM	W	1 / Large		X	1 Sample Bottles / Field Filtered
2								
3								
4								
5								
6								
7								
8								
9								
10								

IRIS 2.012.0

Login 544058

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Mauricio G. Gonzalez	RCDWR / Engineering Tech. I	10-09-25 / 04:30 PM
[1] Received By:		Ricardo Gonzalez	EA	10/10/25 1108
[2] Relinquished By:		Ricardo Gonzalez	EA	10/10/25 1501
[2] Received By:	Ada J	Adam Dinkmeyer	EA	10/10/25 1501
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: General Info

Date Received: 10/10/25 WO# 544058 Client: RIVERSIDE COUNTY

Section 2: Shipping / Custody **Are custody seals present?** ☐ Yes ☒ No

Custody seals intact on arrival? ■ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

■ Courier ☐ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging ☐ **Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)**

Date Opened 10/10/25 By (initials) RRS Type of ice used: ■ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR 13 CF: +0.0

Cooler Temp (°C) #1: 2.0 / 2.0 #2: ____/____ #3: ____/____ #4: ____/____ #5: ____/____ #6: ____/____

Section 3b: Microbiology Samples ■ **No microbiology samples submitted (skip 3b)**

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples ■ **No air samples submitted (skip 3c)**

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other_____

Section 4: Containers / Labels / Samples	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	X		
2) Is the sampler's name present on the CoC?	X		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	X		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)			X
5) Were all of, and only, the correct samples received?	X		
6) Are sample labels present, legible, and in agreement with the CoC?	X		
7) Does the container count match the CoC?	X		
8) Was sufficient sample volume / mass received for the analyses requested?	X		
9) Were samples received in proper containers for the analyses requested?	X		
10) Were samples received with > 1/2 holding time remaining?	X		
11) Are samples properly preserved as indicated by CoC / labels?	X		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			X
13) Are VOA vials free from headspace/bubbles > 6mm?			X

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

☐ **No additional discrepancies**

Date Logged 10/10/25 **By (print)** NCM **(sign)** _____

Date Labeled 10/10/25 **By (print)** ACR **(sign)** _____

ENTHALPY ANALYTICAL

Analysis Results for 544058

Panda Workman
Riverside County
14310 Frederick Street
Moreno Valley, CA 92553

Lab Job #: 544058
Project No: BADLANDS
Location: Badlands
Date Received: 10/10/25

Sample ID: BL-03 **Lab ID: 544058-001** **Collected: 10/09/25 10:50**
Matrix: Filtrate

544058-001 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3015A										
Potassium	ND		mg/L	0.50	0.40	1	384314	10/11/25	10/11/25	DXC

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1302356	**Batch:** 384314
Matrix: Water	**Method:** EPA 6010B	**Prep Method:** EPA 3015A

QC1302356 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Potassium	ND		mg/L	0.50	0.40	10/11/25	10/11/25

Type: Lab Control Sample	**Lab ID:** QC1302357	**Batch:** 384314
Matrix: Water	**Method:** EPA 6010B	**Prep Method:** EPA 3015A

QC1302357 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Potassium	23.72	24.00	mg/L	99%		80-120

Type: Matrix Spike	**Lab ID:** QC1302358	**Batch:** 384314
Matrix (Source ID): Filtrate (544058-001)	**Method:** EPA 6010B	**Prep Method:** EPA 3015A

QC1302358 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Potassium	23.75	ND	24.00	mg/L	99%		75-125	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1302359	**Batch:** 384314
Matrix (Source ID): Filtrate (544058-001)	**Method:** EPA 6010B	**Prep Method:** EPA 3015A

QC1302359 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Potassium	23.69	ND	24.00	mg/L	99%		75-125	0	20	1

ND Not Detected

Appendix J – Third Quarter 2025 Laboratory Results

Badlands Sanitary Landfill
Summary of Detected Parameters 3Q25

Analyte	Reg	Conc	BD-04 08/04/25	BD-04 10/07/25	BH-11 08/04/25	BH-22 08/04/25	BH-25 08/04/25	BH-25 08/05/25	BL-03 08/04/25	BLTB 08/04/25	BLTB 08/05/25
Bicarbonate [mg/l]			15	NT	540	9.1	ND	22	ND	ND	ND
Boron [mg/l]	NL	1	0.34	NT	0.13	0.067	ND	0.47	0.33	ND	ND
Calcium [mg/l]			7.7	NT	16	27	ND	44	5	ND	ND
Carbonate [mg/l]			8.6	NT	ND	4.1	ND	ND	15	ND	ND
Chemical Oxygen Demand [mg/l]			ND	NT	ND	ND	ND	5	ND	ND	ND
Chloride (Cl) [mg/l]			170	NT	120	370	ND	470	140	ND	ND
Dissolved Oxygen [mg/l]			12.1	NT	69.8	54.8	7.2	ND	31.8	ND	ND
Fluoride [mg/l]	**MCL**	**2**	**3.7**	NT	**0.95**	**5.5**	ND	**4.2**	**2**	ND	ND
Hexavalent Chromium [ug/l]	MCL	10	0.96 J	NT	1.1	2.5	ND	0.73 J	0.92 J	ND	ND
Magnesium [mg/l]			0.069 J	NT	1.1	0.032 J	ND	0.3	0.054 J	ND	ND
Nitrate (NO3-N) [mg/l]	MCL	45	0.06 J	NT	18	0.33	ND	3.9	ND	ND	ND
Nitrite (as N) [mg/l]			ND	NT	ND	0.05 J	ND	ND	ND	ND	ND
ORP [mV]			151.8	NT	80.1	157.6	102.4	ND	126.4	ND	ND
pH [pH Unit]			8.91	NT	7.36	8.68	8.45	ND	8.94	ND	ND
Phosphate (PO4) [mg/l]			0.17	NT	0.031 J	ND	ND	0.13	0.058 J	ND	ND
Potassium (K) [mg/l]			0.88	NT	1.2	0.99	ND	1.7	0.77	ND	ND
Sodium [mg/l]			110	NT	290	220	ND	280	94	ND	ND
Specific Conductance [umhos/cm]			690	NT	1460	1330	1889	1860	580	ND	ND
Sulfate (SO4) [mg/l]			23	22	46	42	ND	74	20	ND	ND
Temperature [deg c]			23.5	NT	21.6	22.3	22.6	ND	23.7	ND	ND
Toluene [ug/l]	MCL	150	ND	NT	ND	ND	ND	ND	ND	0.1 J	0.05 B,J
Total Anions [meq/l]			5.8	NT	14	12	ND	15	4.9	ND	ND
Total Antimony [ug/l]	MCL	6	0.36 J	NT	ND	ND	ND	ND	ND	ND	ND
Total Arsenic [ug/l]	MCL	50	18	NT	0.62 J	22	ND	8	45	ND	ND
Total Barium [ug/l]	MCL	1000	2.8 J	NT	36	37	ND	11	1.8 J	ND	ND
Total Cadmium [ug/l]	MCL	5	ND	NT	ND	0.36 J	ND	ND	ND	ND	ND
Total Cations [meq/l]			5.2	NT	14	11	ND	14	4.4	ND	ND
Total Chromium [ug/l]	MCL	50	0.38 J	NT	0.5 J	1.8 J	ND	0.36 J	ND	ND	ND
Total Dissolved Solids (TDS) [mg/l]			340	NT	930	720	ND	1000	320	ND	ND
Total Hardness [mg/l]			**27**	NT	**440**	**14**	ND	**120**	**27**	ND	ND
Total Nickle [ug/l]			1.4 J	NT	ND	ND	ND	ND	ND	ND	ND
Total Organic Compound [mg/l]			0.38 J	NT	0.76 J	0.79 J	ND	0.6 J	0.36 J	ND	ND
Total Phosphorus [mg/l]			0.058	NT	ND	ND	ND	0.039	0.02	ND	ND
Total Selenium [ug/l]	MCL	50	8.5	NT	1.7 J	ND	ND	9.2	ND	ND	ND
Total Tin [ug/l]			ND	NT	0.816 J	0.417 J	ND	ND	0.648 J	ND	ND
Total Vanadium [ug/l]	**NL**	**50**	**63**	NT	**5.9**	**180**	ND	**19**	**220**	ND	ND

Conc = Concentration
J = Value between quantitation limit and method detection limit
MCL = Maximum Contaminant Level
NL = Notification Level
NT = Not Tested
Reg = Regulation
> MCL/NL = Underline

Appendix K – Third Quarter 2025 Summary of Detected Parameters

Prediction Limit

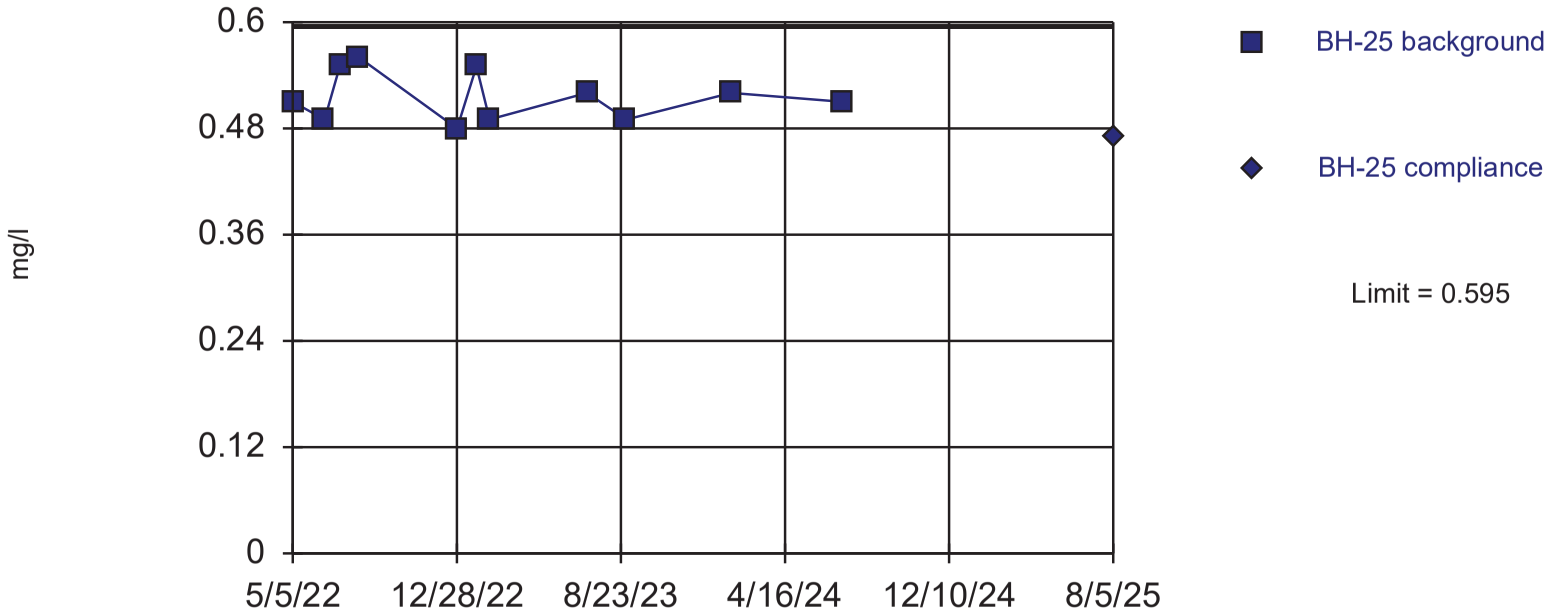
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics Printed 9/19/2025, 6:08 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/l)	BH-25	0.595	n/a	8/5/2025	0.47	No	11	0	No	0.01	Param Intra
Chloride [Cl] (mg/l)	BL-03	163	n/a	8/4/2025	140	No	84	0	n/a	0.01176	NP Intra (normality)
Chloride [Cl] (mg/l)	BH-11	127	n/a	8/4/2025	120	No	24	0	No	0.01	Param Intra
Chloride [Cl] (mg/l)	BD-04	200	n/a	8/4/2025	170	No	49	0	n/a	0.02	NP Intra (normality)
Chloride [Cl] (mg/l)	BH-22	463	n/a	8/4/2025	370	No	33	0	No	0.01	Param Intra
Chloride [Cl] (mg/l)	BH-25	554	n/a	8/5/2025	470	No	24	0	No	0.01	Param Intra
Nitrate [NO3-N] (mg/l)	BL-03	0.300	n/a	8/4/2025	0.1ND	No	83	55.42	n/a	0.0119	NP Intra (NDs)
Nitrate [NO3-N] (mg/l)	BH-11	32.0	n/a	8/4/2025	18	No	32	0	n/a	0.0303	NP Intra (normality)
Nitrate [NO3-N] (mg/l)	BD-04	0.230	n/a	8/4/2025	0.06J	No	71	47.89	n/a	0.01389	NP Intra (normality)
Nitrate [NO3-N] (mg/l)	BH-22	1.25	n/a	8/4/2025	0.33	No	32	0	sqrt(x)	0.01	Param Intra
Nitrate [NO3-N] (mg/l)	BH-25	4.7	n/a	8/5/2025	3.9	No	22	0	No	0.01	Param Intra
pH (unitless)	BL-03	9.99	4.58	8/4/2025	8.94	No	80	0	n/a	0.02469	NP Intra (normality)
pH (unitless)	BH-11	8.56	7.14	8/4/2025	7.36	No	30	0	No	0.005	Param Intra
pH (unitless)	BD-04	10.1	7.98	8/4/2025	8.91	No	37	0	No	0.005	Param Intra
pH (unitless)	BH-22	10	7.35	8/4/2025	8.68	No	39	0	No	0.005	Param Intra
pH (unitless)	BH-25	9.68	6.76	8/4/2025	8.45	No	29	0	No	0.005	Param Intra
Potassium [K] (mg/l)	**BL-03**	**0.588**	**n/a**	**8/4/2025**	**0.77**	**Yes**	**45**	**0**	**No**	**0.01**	**Param Intra**
Potassium [K] (mg/l)	BH-11	3.24	n/a	8/4/2025	1.2	No	81	2.469	n/a	0.0122	NP Intra (normality)
Potassium [K] (mg/l)	BD-04	0.898	n/a	8/4/2025	0.88	No	38	0	No	0.01	Param Intra
Potassium [K] (mg/l)	BH-22	1.07	n/a	8/4/2025	0.99	No	31	0	No	0.01	Param Intra
Sulfate [SO4] (mg/l)	BL-03	21.0	n/a	8/4/2025	20	No	48	0	n/a	0.02041	NP Intra (normality)
Sulfate [SO4] (mg/l)	BH-11	73.0	n/a	8/4/2025	46	No	39	0	n/a	0.025	NP Intra (normality)
Sulfate [SO4] (mg/l)	**BD-04**	**22.0**	**n/a**	**8/4/2025**	**23**	**Yes**	**38**	**0**	**n/a**	**0.02564**	**NP Intra (normality)**
Sulfate [SO4] (mg/l)	BH-22	45.1	n/a	8/4/2025	42	No	33	0	No	0.01	Param Intra
Sulfate [SO4] (mg/l)	BH-25	96.0	n/a	8/5/2025	74	No	33	0	n/a	0.02941	NP Intra (normality)
Total Dissolved Solids [TDS] (m...	BL-03	376	n/a	8/4/2025	320	No	83	0	No	0.01	Param Intra
Total Dissolved Solids [TDS] (m...	BH-11	1100	n/a	8/4/2025	930	No	30	0	n/a	0.03226	NP Intra (normality)
Total Dissolved Solids [TDS] (m...	BD-04	476	n/a	8/4/2025	340	No	71	0	No	0.01	Param Intra
Total Dissolved Solids [TDS] (m...	BH-22	914	n/a	8/4/2025	720	No	33	0	No	0.01	Param Intra
Total Dissolved Solids [TDS] (m...	BH-25	1100	n/a	8/5/2025	1000	No	33	0	n/a	0.02941	NP Intra (normality)

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.5155, Std. Dev.=0.0277, n=11. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9031, critical = 0.85. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Boron Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Boron (mg/l) Analysis Run 9/19/2025 6:08 PM

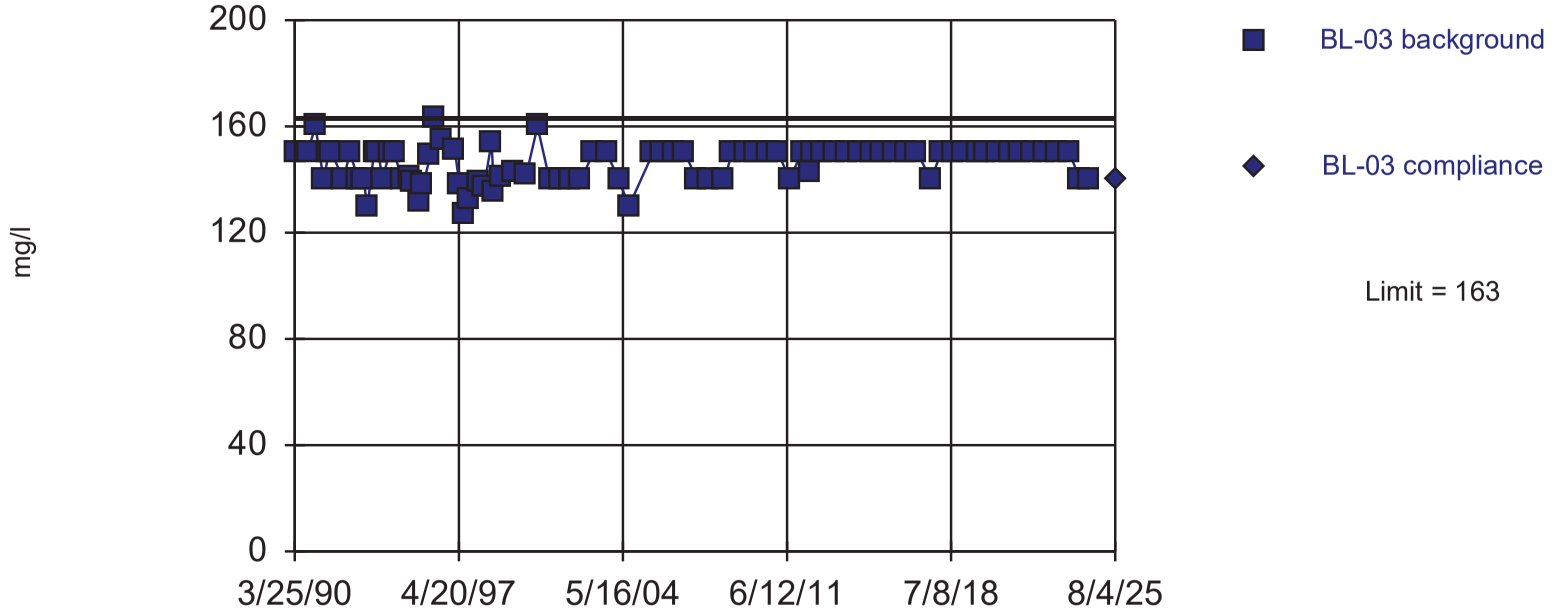
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-25	BH-25
5/5/2022	0.51	
6/20/2022	0.49	
7/12/2022	0.55	
8/9/2022	0.56	
12/29/2022	0.48	
1/26/2023	0.55	
2/14/2023	0.49	
7/5/2023	0.52	
8/31/2023	0.49	
1/30/2024	0.52	
7/10/2024	0.51	
8/5/2025		0.47

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 84 background values. Report alpha = 0.01176. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chloride [Cl] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Chloride [Cl] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
3/25/1990	150	
10/6/1990	150	
2/14/1991	160	
6/20/1991	140	
9/11/1991	150	
10/28/1991	150	
4/28/1992	140	
8/6/1992	150	
12/23/1992	140	
3/8/1993	140	
5/14/1993	130	
8/23/1993	150	
11/1/1993	150	
1/3/1994	140	
4/21/1994	150	
7/11/1994	150	
11/3/1994	140	
3/1/1995	141	
4/20/1995	139	
8/23/1995	132	
10/5/1995	138	
1/29/1996	149	
4/15/1996	163	
7/25/1996	155	
2/14/1997	151	
4/30/1997	138	
7/23/1997	127	
10/7/1997	133	
3/4/1998	139	
5/18/1998	137	
9/16/1998	154	
10/27/1998	135	
2/22/1999	141	
9/1/1999	143	
3/20/2000	142	
9/8/2000	160	
3/16/2001	140	
9/21/2001	140	
2/11/2002	140	
7/23/2002	140	
2/6/2003	150	
9/4/2003	150	
3/11/2004	140	
8/19/2004	130	
9/2/2005	150	
1/20/2006	150	
7/12/2006	150	
1/17/2007	150	
7/26/2007	140	
1/16/2008	140	
9/30/2008	140	
1/29/2009	150	

Prediction Limit

Constituent: Chloride [Cl] (mg/l) Analysis Run 9/19/2025 6:08 PM

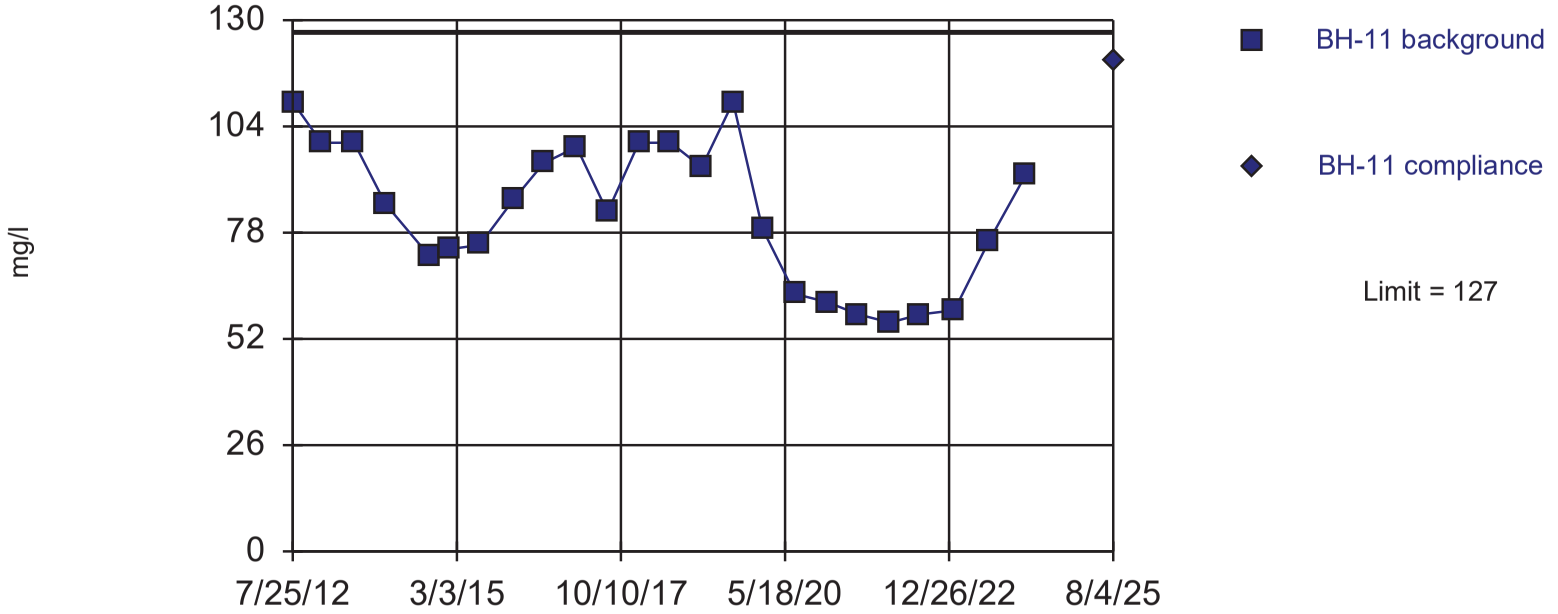
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
8/25/2009	150	
2/1/2010	150	
7/29/2010	150	
1/25/2011	150	
7/25/2011	140	
1/25/2012	150	
6/25/2012	142.5	
7/25/2012	150	
1/8/2013	150	
7/16/2013	150	
1/14/2014	150	
7/8/2014	150	
1/28/2015	150	
7/14/2015	150	
1/25/2016	150	
7/19/2016	150	
1/25/2017	150	
8/24/2017	140	
1/30/2018	150	
8/29/2018	150	
1/31/2019	150	
9/4/2019	150	
1/8/2020	150	
7/15/2020	150	
1/20/2021	150	
7/14/2021	150	
1/18/2022	150	
7/12/2022	150	
1/26/2023	150	
8/15/2023	150	
1/30/2024	140	
7/10/2024	140	
8/4/2025		140

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=82.71, Std. Dev.=17.44, n=24. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9273, critical = 0.916. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride [Cl] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Chloride [Cl] (mg/l) Analysis Run 9/19/2025 6:08 PM

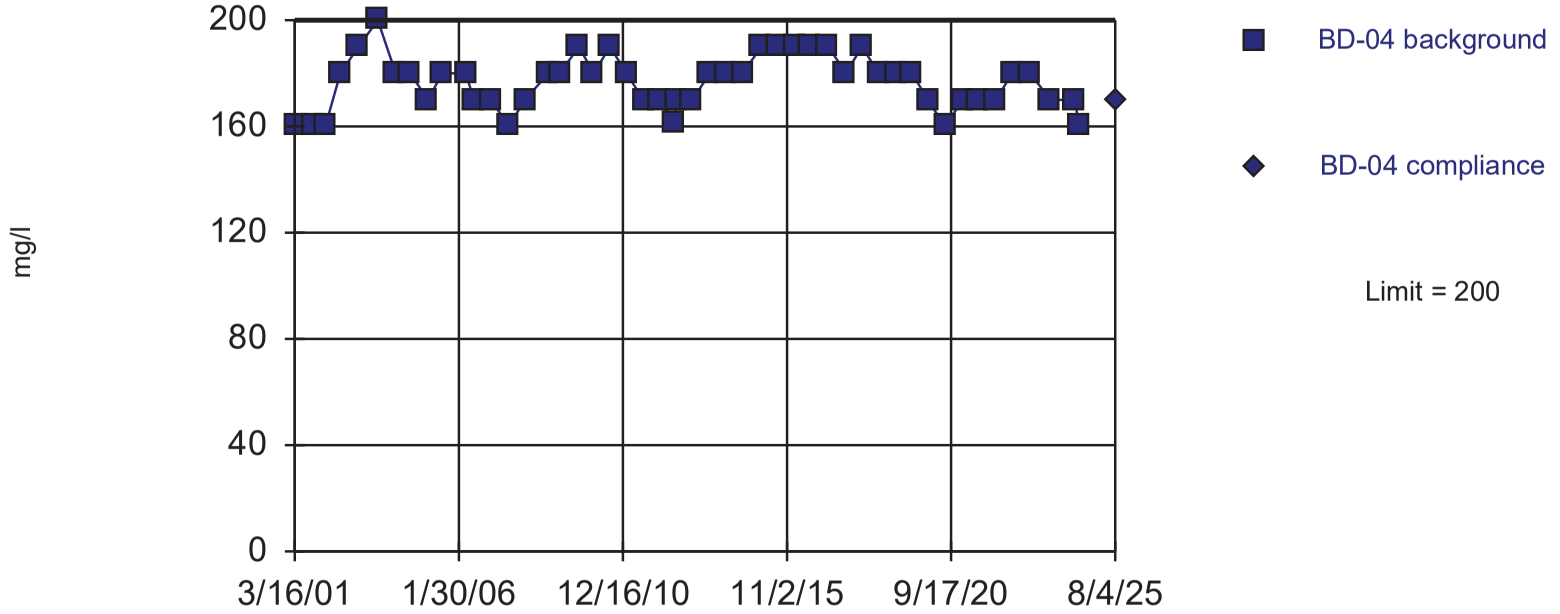
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-11	BH-11
7/25/2012	110	
1/8/2013	100	
7/16/2013	100	
1/14/2014	85	
10/1/2014	72 (R)	
1/28/2015	74	
7/14/2015	75	
1/25/2016	86	
7/19/2016	95	
1/26/2017	99	
7/24/2017	83	
1/22/2018	100	
7/26/2018	100	
1/22/2019	94	
7/23/2019	110	
1/8/2020	79	
7/16/2020	63	
1/19/2021	61	
7/19/2021	58	
1/18/2022	56	
7/11/2022	58	
1/26/2023	59	
8/15/2023	76	
3/13/2024	92	
8/4/2025		120

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 49 background values. Report alpha = 0.02. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Chloride [Cl] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Chloride [Cl] (mg/l) Analysis Run 9/19/2025 6:08 PM

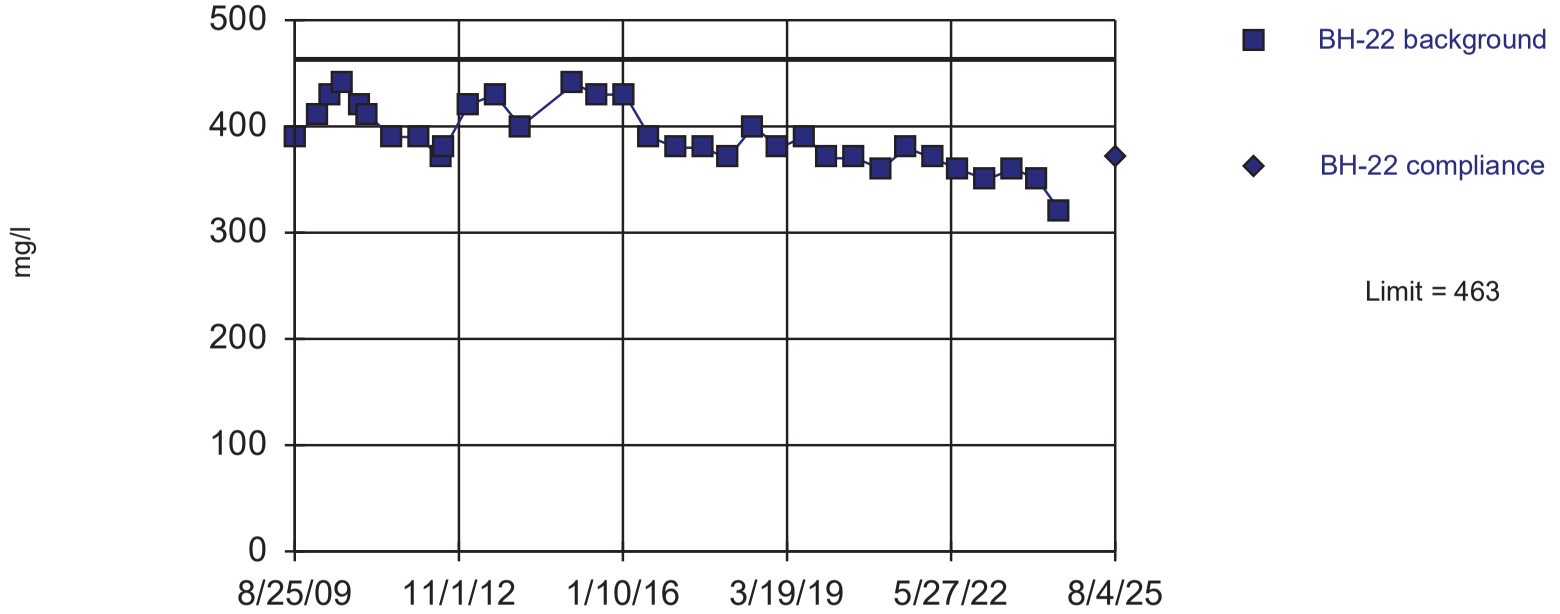
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
3/16/2001	160	
9/21/2001	160	
2/11/2002	160	
7/23/2002	180	
2/5/2003	190	
9/4/2003	200	
3/15/2004	180	
8/19/2004	180	
3/1/2005	170	
8/2/2005	180	
4/17/2006	180	
7/12/2006	170	
1/17/2007	170	
7/25/2007	160	
1/16/2008	170	
9/30/2008	180	
1/29/2009	180	
8/25/2009	190	
2/1/2010	180	
7/29/2010	190	
1/25/2011	180	
7/25/2011	170	
1/25/2012	170	
6/25/2012	161.5	
7/25/2012	170	
1/8/2013	170	
7/16/2013	180	
1/14/2014	180	
7/8/2014	180	
1/27/2015	190	
7/14/2015	190	
1/25/2016	190	
7/19/2016	190	
1/25/2017	190	
8/1/2017	180	
1/23/2018	190	
7/26/2018	180	
1/22/2019	180	
7/23/2019	180	
1/8/2020	170	
7/16/2020	160	
1/20/2021	170	
7/14/2021	170	
1/18/2022	170	
7/12/2022	180	
1/26/2023	180	
8/31/2023	170	
5/22/2024	170	
7/10/2024	160	
8/4/2025		170

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=389.7, Std. Dev.=29.3, n=33. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9574, critical = 0.931. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride [Cl] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Chloride [Cl] (mg/l) Analysis Run 9/19/2025 6:08 PM

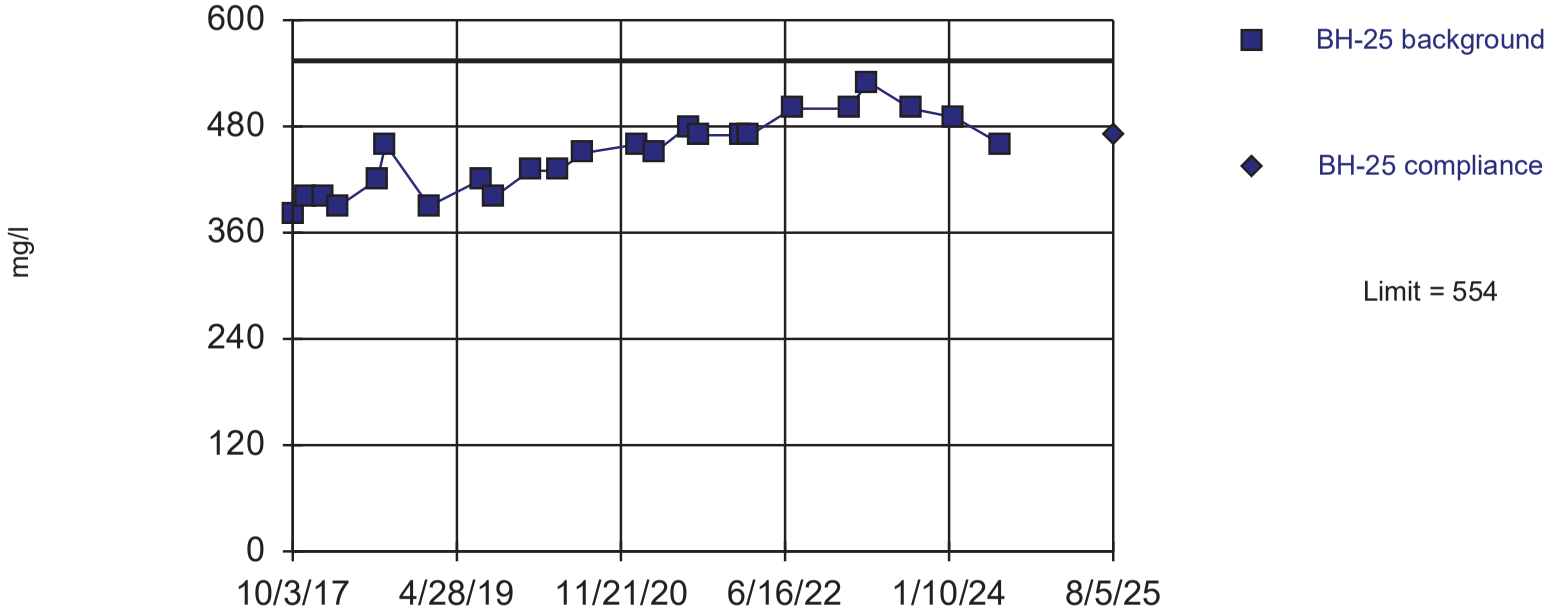
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-22	BH-22
8/25/2009	390	
2/1/2010	410	
5/12/2010	430	
7/27/2010	440	
11/30/2010	420	
1/25/2011	410	
7/25/2011	390	
1/25/2012	390	
6/25/2012	370.5	
7/25/2012	380	
1/8/2013	420	
7/16/2013	430	
1/14/2014	400	
1/27/2015	440	
7/14/2015	430	
1/25/2016	430	
7/19/2016	390	
1/25/2017	380	
8/1/2017	380	
1/22/2018	370	
7/26/2018	400	
1/22/2019	380	
7/23/2019	390	
1/8/2020	370	
7/16/2020	370	
1/20/2021	360	
7/14/2021	380	
1/18/2022	370	
7/12/2022	360	
2/1/2023	350	
8/15/2023	360	
1/30/2024	350	
7/10/2024	320	
8/4/2025		370

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=447.9, Std. Dev.=41.7, n=24. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9574, critical = 0.916. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Chloride [Cl] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Chloride [Cl] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

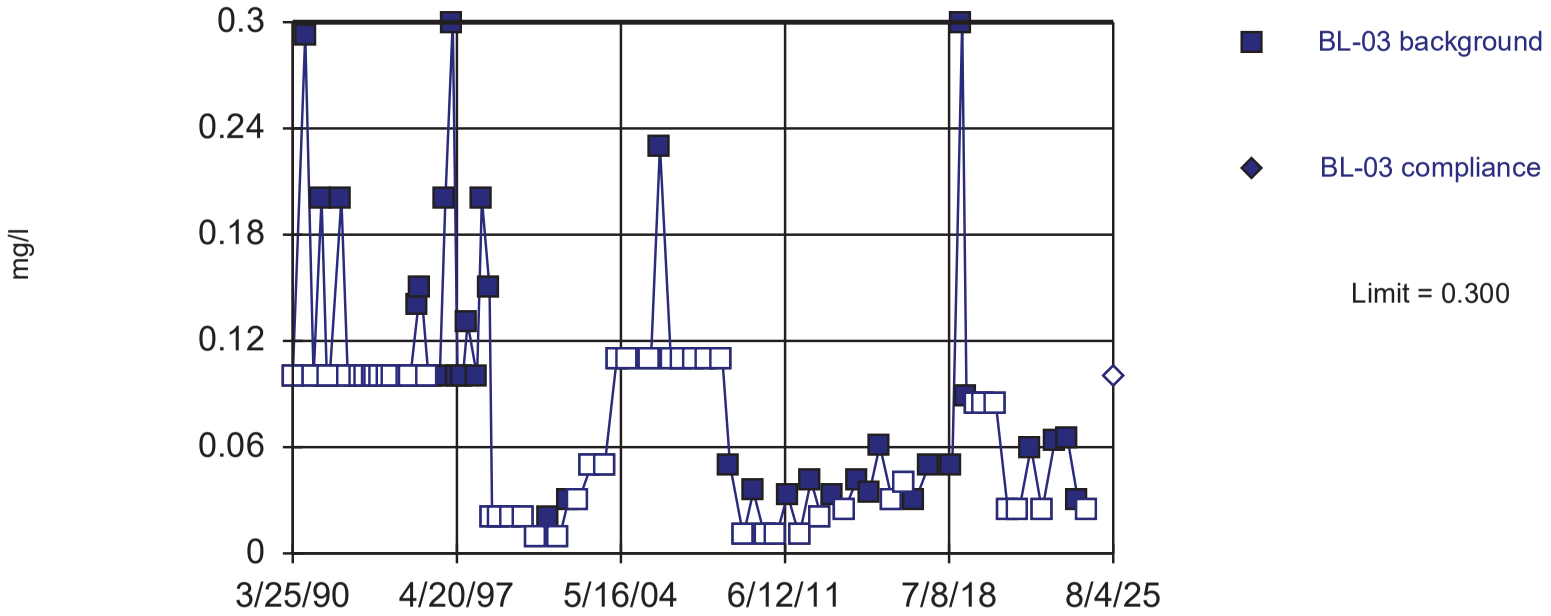
	BH-25	BH-25
10/3/2017	380	
11/20/2017	400	
1/22/2018	400	
3/12/2018	390 (R)	
7/26/2018	420	
8/23/2018	460 (R)	
1/22/2019	390	
7/23/2019	420	
9/4/2019	400 (R)	
1/9/2020	430	
4/16/2020	430 (R)	
7/15/2020	450	
1/20/2021	460	
3/16/2021	450 (R)	
7/14/2021	480	
8/18/2021	470 (R)	
1/18/2022	470	
2/14/2022	470 (R)	
7/12/2022	500	
1/26/2023	500	
4/3/2023	530	
8/31/2023	500	
1/30/2024	490	
7/10/2024	460	
8/5/2025		470

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 83 background values. 55.42% NDs. Report alpha = 0.0119. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nitrate [NO3-N] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
3/25/1990	<0.1	
10/6/1990	0.293	
2/14/1991	<0.1	
6/20/1991	0.2	
9/11/1991	0.1	
10/28/1991	<0.1	
4/28/1992	0.2	
8/6/1992	<0.1	
12/23/1992	0.1	
3/8/1993	<0.1	
5/14/1993	<0.1	
8/23/1993	<0.1	
11/1/1993	<0.1	
1/3/1994	<0.1	
4/21/1994	<0.1	
7/11/1994	<0.1	
3/1/1995	<0.1	
4/20/1995	<0.1	
8/23/1995	0.14	
10/5/1995	0.15	
1/29/1996	<0.1	
4/15/1996	0.1	
7/25/1996	0.1	
10/22/1996	0.2	
2/14/1997	0.3	
4/30/1997	0.1	
7/23/1997	0.1	
10/7/1997	0.13	
3/4/1998	0.1	
5/18/1998	0.2	
9/16/1998	0.15 (J)	
10/27/1998	<0.02	
2/22/1999	<0.02	
9/1/1999	<0.02	
3/20/2000	<0.02	
9/8/2000	<0.009	
3/16/2001	0.02 (J)	
9/21/2001	<0.009	
2/11/2002	0.03 (J)	
7/23/2002	<0.03	
2/6/2003	<0.05	
9/4/2003	<0.05	
3/11/2004	<0.11	
8/19/2004	<0.11	
9/2/2005	<0.11	
1/20/2006	0.23	
7/12/2006	<0.11	
1/17/2007	<0.11	
7/26/2007	<0.11	
1/16/2008	<0.11	
9/30/2008	<0.11	
1/29/2009	0.05 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

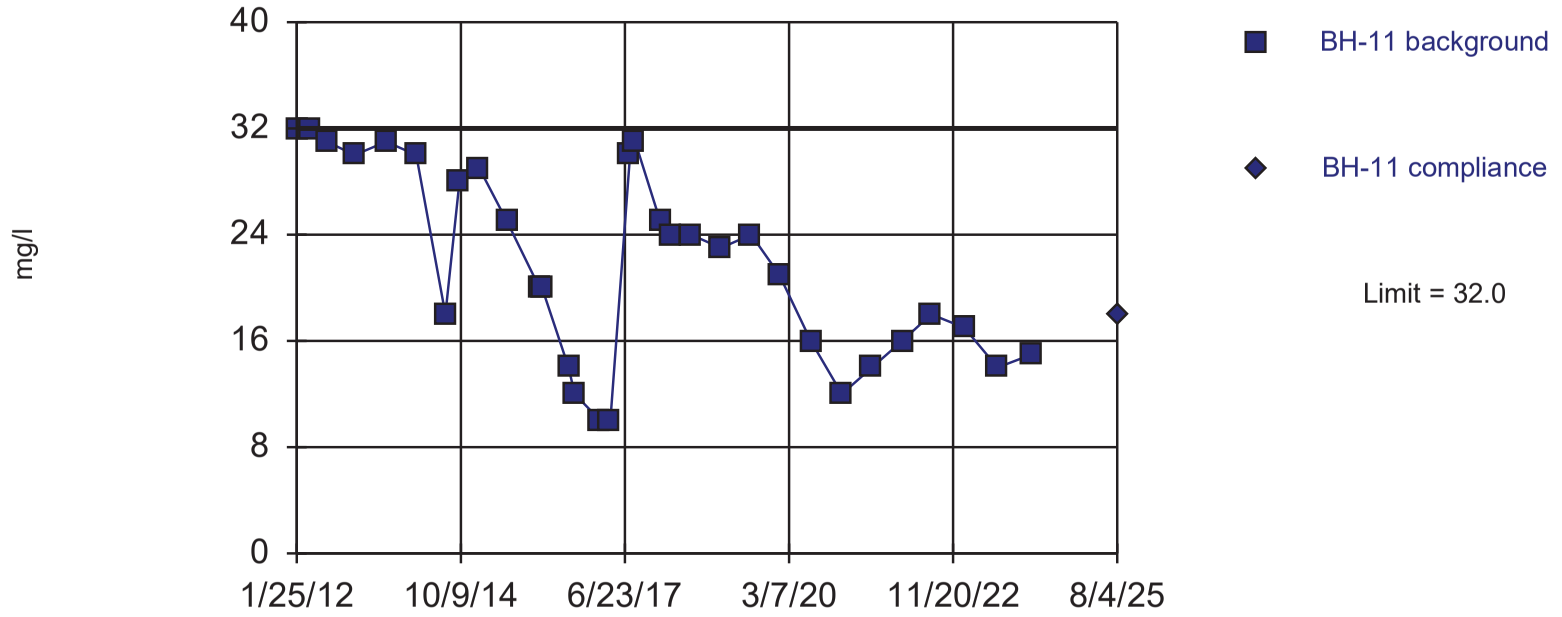
	BL-03	BL-03
8/25/2009	<0.01	
2/1/2010	0.035 (J)	
7/29/2010	<0.01	
1/25/2011	<0.01	
7/25/2011	0.033 (J)	
1/25/2012	<0.01	
7/25/2012	0.041 (J)	
1/8/2013	<0.02	
7/16/2013	0.033 (J)	
1/14/2014	<0.025	
7/8/2014	0.041 (J)	
1/28/2015	0.034 (J)	
7/14/2015	0.061 (J)	
1/25/2016	<0.03	
7/19/2016	<0.04	
1/25/2017	0.03 (J)	
8/24/2017	0.05 (J)	
8/29/2018	0.049 (J)	
1/31/2019	0.3	
4/9/2019	0.088 (R)	
9/4/2019	<0.084	
1/8/2020	<0.084	
7/15/2020	<0.084	
1/20/2021	<0.024	
7/14/2021	<0.024	
1/18/2022	0.06 (J)	
7/12/2022	<0.024	
1/26/2023	0.063 (J)	
8/15/2023	0.065 (J)	
1/30/2024	0.03 (J)	
7/10/2024	<0.024	
8/4/2025		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 32 background values. Report alpha = 0.0303. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nitrate [NO3-N] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

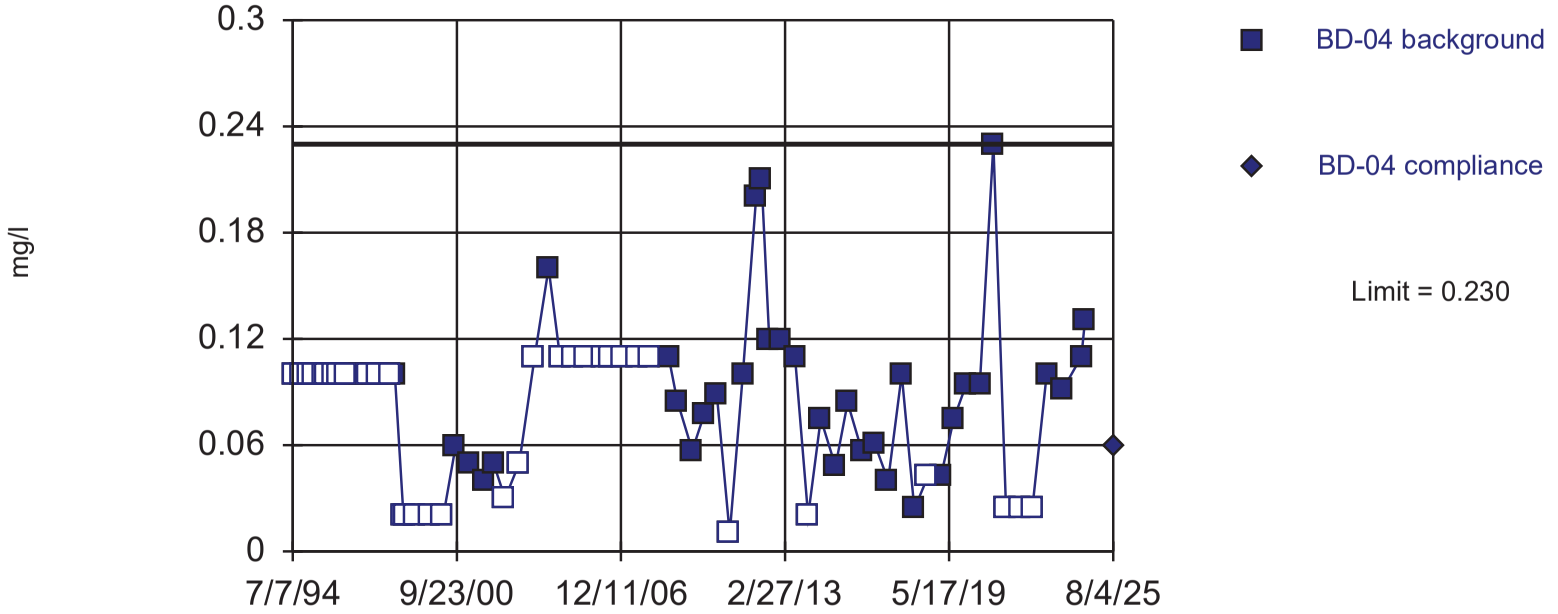
	BH-11	BH-11
1/25/2012	32	
4/9/2012	32 (R)	
7/25/2012	31	
1/8/2013	30	
7/16/2013	31	
1/14/2014	30	
7/8/2014	18	
10/1/2014	28 (R)	
1/28/2015	29	
7/14/2015	25	
1/25/2016	20	
2/10/2016	20 (R)	
7/19/2016	14	
8/24/2016	12 (R)	
1/26/2017	10	
3/27/2017	10 (R)	
7/24/2017	30	
8/24/2017	31 (R)	
1/22/2018	25	
4/4/2018	24 (R)	
7/26/2018	24	
1/22/2019	23	
7/23/2019	24	
1/8/2020	21	
7/16/2020	16	
1/19/2021	12	
7/19/2021	14	
1/18/2022	16	
7/11/2022	18	
1/26/2023	17	
8/15/2023	14	
3/13/2024	15	
8/4/2025		18

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 71 background values. 47.89% NDs. Report alpha = 0.01389. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Nitrate [NO3-N] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
7/7/1994	<0.1	
11/9/1994	<0.1	
2/28/1995	<0.1	
4/20/1995	<0.1	
8/23/1995	<0.1	
10/5/1995	<0.1	
1/29/1996	<0.1	
4/15/1996	<0.1	
7/25/1996	<0.1	
10/22/1996	0.1	
2/14/1997	0.1 (J)	
5/1/1997	<0.1	
7/23/1997	0.1	
10/7/1997	<0.1	
3/3/1998	<0.1	
5/18/1998	0.1	
9/16/1998	<0.02	
10/23/1998	<0.02	
2/22/1999	<0.02	
9/1/1999	<0.02	
3/20/2000	<0.02	
9/8/2000	0.06 (J)	
3/16/2001	0.05 (J)	
9/21/2001	0.04 (J)	
2/11/2002	0.05 (J)	
7/23/2002	<0.03	
2/5/2003	<0.05	
9/4/2003	<0.11	
3/15/2004	0.16 (J)	
8/19/2004	<0.11	
3/1/2005	<0.11	
8/2/2005	<0.11	
4/17/2006	<0.11	
7/12/2006	<0.11	
1/17/2007	<0.11	
7/25/2007	<0.11	
1/16/2008	<0.11	
9/30/2008	0.11 (J)	
1/29/2009	0.085 (J)	
8/25/2009	0.057 (J)	
2/1/2010	0.077 (J)	
7/29/2010	0.089 (J)	
1/25/2011	<0.01	
7/25/2011	0.1	
1/25/2012	0.2	
4/10/2012	0.21 (R)	
7/25/2012	0.12	
1/8/2013	0.12	
7/16/2013	0.11	
1/14/2014	<0.02	
7/8/2014	0.075 (J)	
1/27/2015	0.048 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

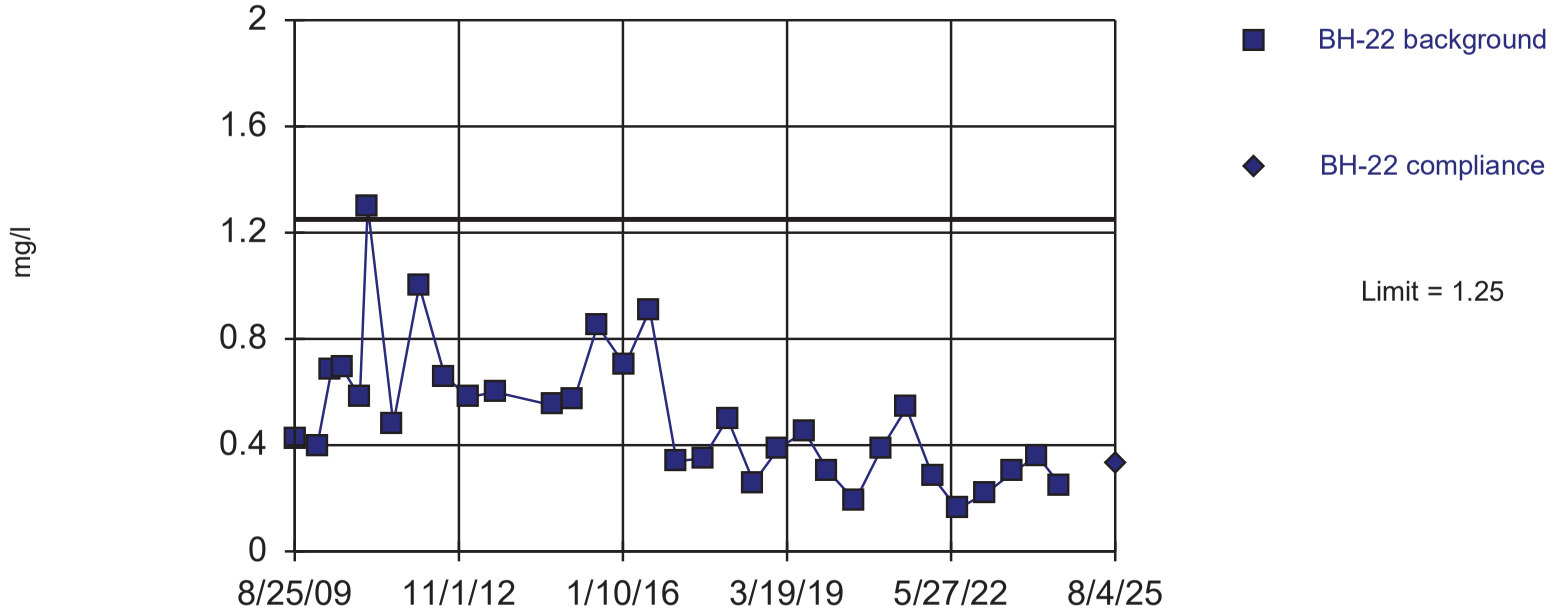
	BD-04	BD-04
7/14/2015	0.084 (J)	
1/25/2016	0.057 (J)	
7/19/2016	0.061 (J)	
1/25/2017	0.04 (J)	
8/1/2017	0.1	
1/23/2018	0.024 (J)	
7/26/2018	<0.042	
1/22/2019	0.042 (J)	
7/23/2019	0.075 (J)	
1/8/2020	0.094 (J)	
7/16/2020	0.094 (J)	
1/20/2021	0.23	
7/14/2021	<0.024	
1/18/2022	<0.024	
7/12/2022	<0.024	
1/26/2023	0.1	
8/31/2023	0.091 (J)	
5/22/2024	0.11	
7/10/2024	0.13	
8/4/2025		0.06 (J)

ND substitution: RL or RL/2 if <15% NDs.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.6926, Std. Dev.=0.1703, n=32. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.975, critical = 0.93. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Nitrate [NO3-N] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

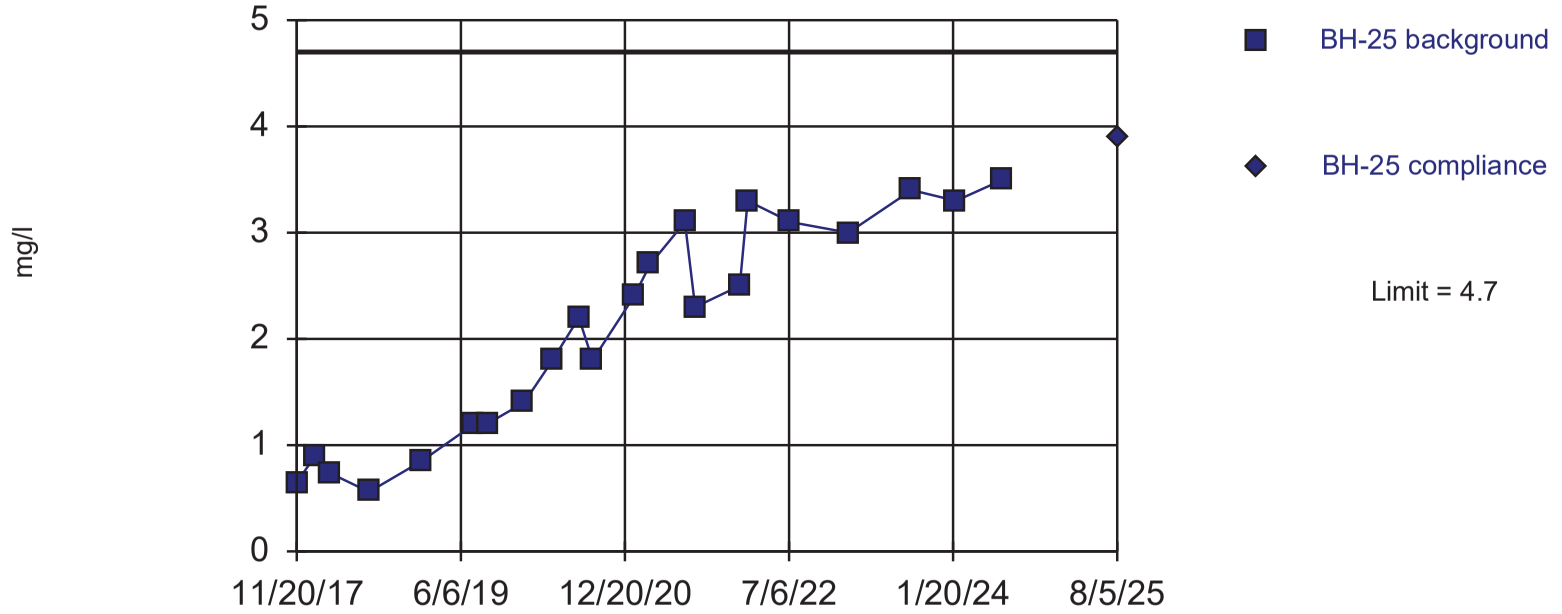
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-22	BH-22
8/25/2009	0.42	
2/1/2010	0.4	
5/12/2010	0.68	
7/27/2010	0.69	
11/30/2010	0.58	
1/25/2011	1.3	
7/25/2011	0.48	
1/25/2012	1	
7/25/2012	0.66	
1/8/2013	0.58	
7/16/2013	0.6	
8/27/2014	0.55 (R)	
1/27/2015	0.57	
7/14/2015	0.85	
1/25/2016	0.7	
7/19/2016	0.91	
1/25/2017	0.34	
8/1/2017	0.35	
1/22/2018	0.5	
7/26/2018	0.26	
1/22/2019	0.39	
7/23/2019	0.45	
1/8/2020	0.3	
7/16/2020	0.19 (J)	
1/20/2021	0.39	
7/14/2021	0.54	
1/18/2022	0.28 (J)	
7/12/2022	0.16	
2/1/2023	0.22	
8/15/2023	0.3	
1/30/2024	0.36	
7/10/2024	0.25	
8/4/2025		0.33

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=2.086, Std. Dev.=1.014, n=22. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9153, critical = 0.911. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Nitrate [NO3-N] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Nitrate [NO3-N] (mg/l) Analysis Run 9/19/2025 6:08 PM

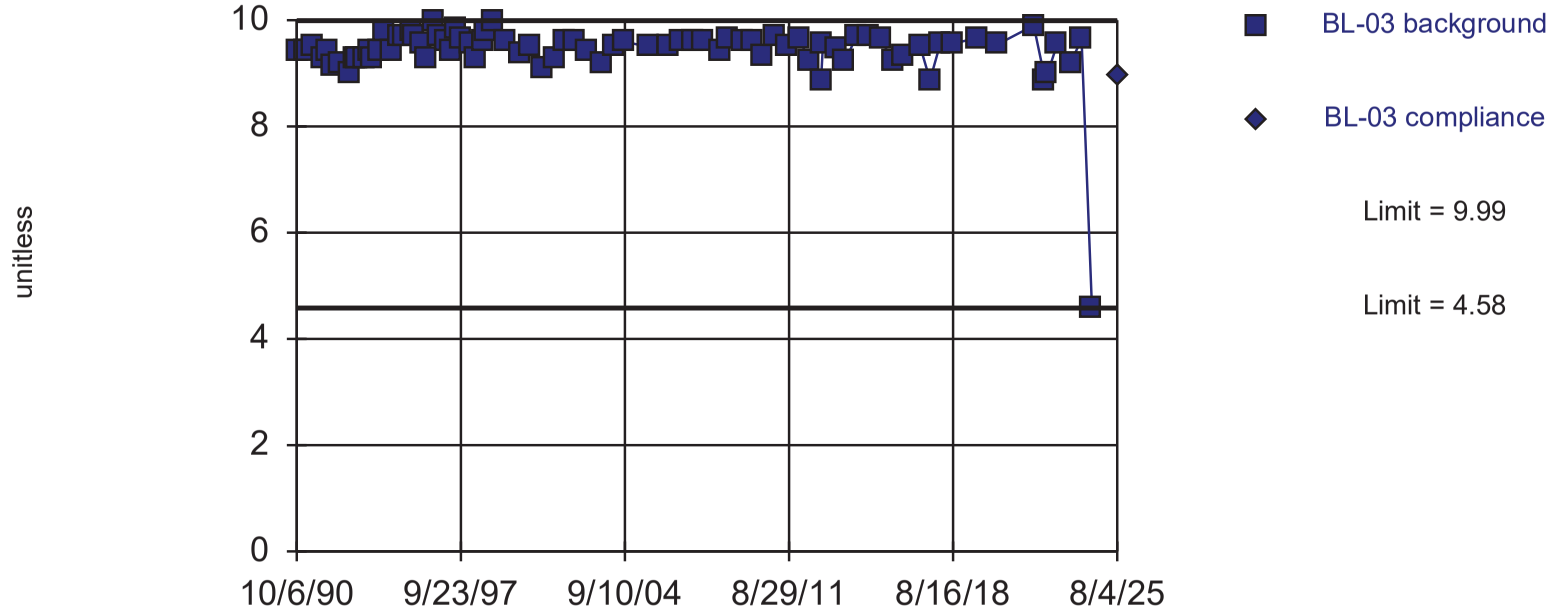
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-25	BH-25
11/20/2017	0.65	
1/22/2018	0.9	
3/12/2018	0.74 (R)	
7/26/2018	0.56	
1/22/2019	0.85	
7/23/2019	1.2	
9/4/2019	1.2 (R)	
1/9/2020	1.4	
4/16/2020	1.8 (R)	
7/15/2020	2.2	
8/31/2020	1.8 (R)	
1/20/2021	2.4	
3/16/2021	2.7 (R)	
7/14/2021	3.1	
8/18/2021	2.3 (R)	
1/18/2022	2.5	
2/14/2022	3.3 (R)	
7/12/2022	3.1	
1/26/2023	3	
8/31/2023	3.4	
1/30/2024	3.3	
7/10/2024	3.5	
8/5/2025		3.9

Within Limits

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limits are highest and lowest of 80 background values. Report alpha = 0.02469. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: pH Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: pH (unitless) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
10/6/1990	9.4	
2/14/1991	9.4	
6/20/1991	9.5	
10/28/1991	9.3	
1/20/1992	9.41	
4/28/1992	9.12	
8/6/1992	9.2	
12/23/1992	9	
3/8/1993	9.3	
5/14/1993	9.3	
8/23/1993	9.3	
11/1/1993	9.4	
1/3/1994	9.3	
4/21/1994	9.4	
7/11/1994	9.8	
11/3/1994	9.4	
3/1/1995	9.7	
4/20/1995	9.7	
8/23/1995	9.8	
10/5/1995	9.7	
1/29/1996	9.56	
4/15/1996	9.3	
7/25/1996	9.99	
10/22/1996	9.68	
2/14/1997	9.61	
4/30/1997	9.43	
7/23/1997	9.83	
10/7/1997	9.63	
3/4/1998	9.56	
5/18/1998	9.26	
9/16/1998	9.61	
10/27/1998	9.78	
2/22/1999	9.98	
9/1/1999	9.61	
3/20/2000	9.38	
9/8/2000	9.5	
3/16/2001	9.1	
9/21/2001	9.3	
2/11/2002	9.6	
7/23/2002	9.6	
2/6/2003	9.4	
9/4/2003	9.2	
3/11/2004	9.5	
8/19/2004	9.6	
9/2/2005	9.5	
7/12/2006	9.5	
1/17/2007	9.6	
7/26/2007	9.6	
1/16/2008	9.6	
9/30/2008	9.4	
1/29/2009	9.63	
8/25/2009	9.61	

Prediction Limit

Constituent: pH (unitless) Analysis Run 9/19/2025 6:08 PM

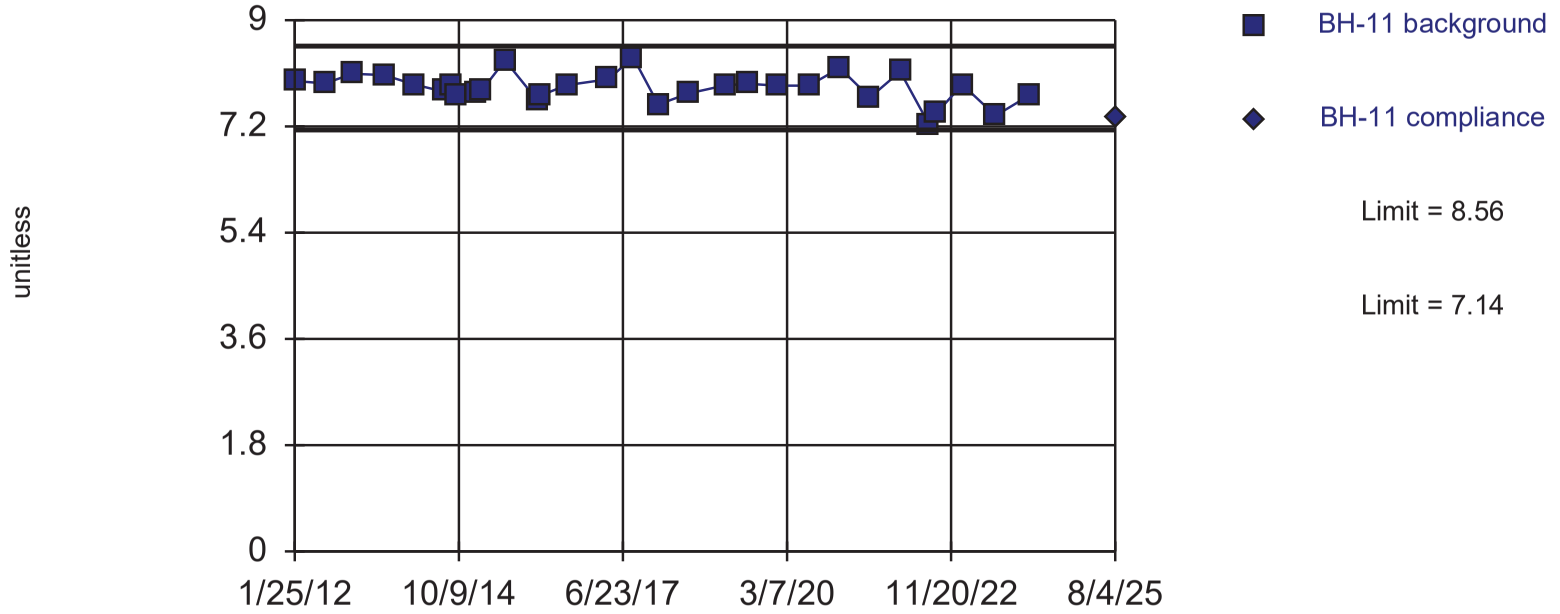
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
2/1/2010	9.61	
7/29/2010	9.32	
1/25/2011	9.68	
7/25/2011	9.51	
1/25/2012	9.65	
7/25/2012	9.23	
1/8/2013	8.88	
2/6/2013	9.56 (R)	
8/21/2013	9.47 (R)	
1/14/2014	9.22	
7/8/2014	9.7	
1/28/2015	9.72	
7/14/2015	9.67	
1/25/2016	9.22	
7/19/2016	9.34	
3/27/2017	9.5 (R)	
8/24/2017	8.87	
1/30/2018	9.56	
8/29/2018	9.56	
9/4/2019	9.67	
7/15/2020	9.55	
1/18/2022	9.9	
7/12/2022	8.88	
8/22/2022	9	
1/26/2023	9.58	
8/15/2023	9.2	
1/30/2024	9.64	
7/10/2024	4.58	
8/4/2025		8.94

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=7.851, Std. Dev.=0.2535, n=30. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9688, critical = 0.927. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: pH (unitless) Analysis Run 9/19/2025 6:08 PM

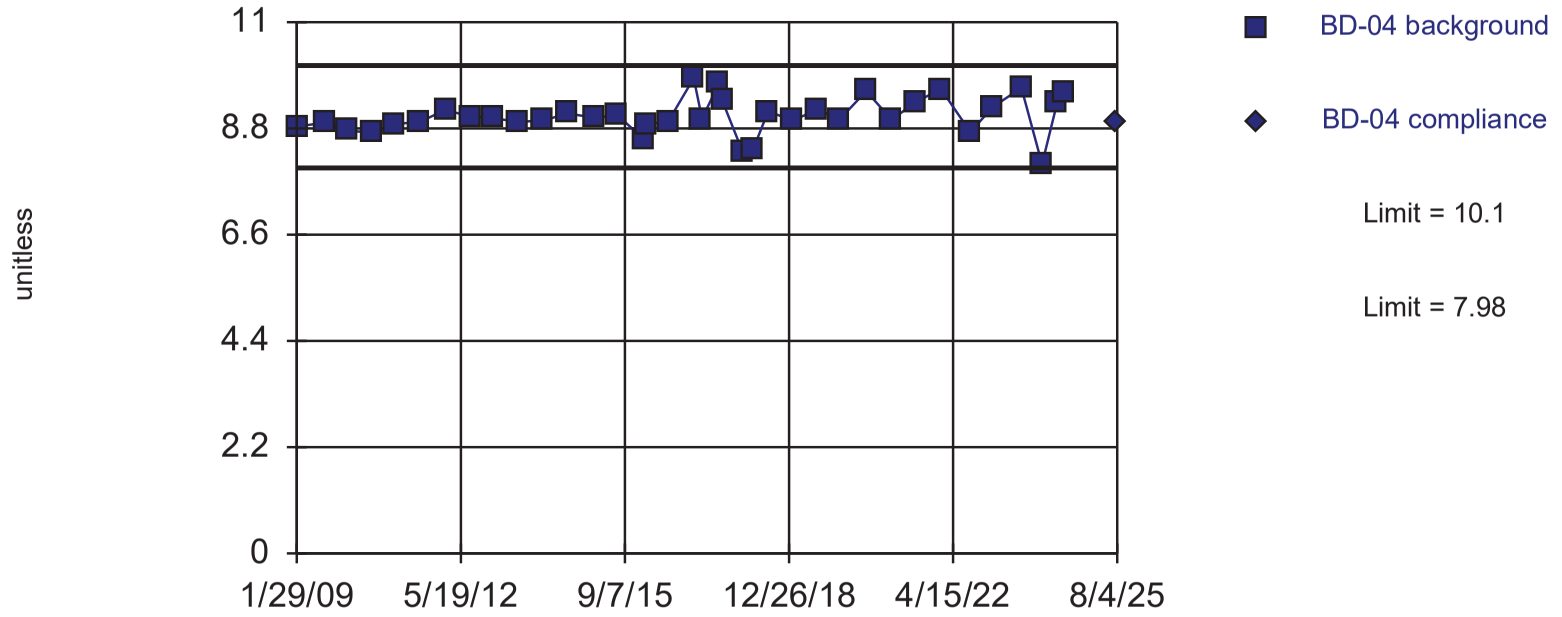
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-11	BH-11
1/25/2012	7.97	
7/25/2012	7.93	
1/8/2013	8.09	
7/16/2013	8.07	
1/14/2014	7.91	
7/8/2014	7.79	
8/27/2014	7.91 (R)	
10/1/2014	7.73 (R)	
1/28/2015	7.76	
2/19/2015	7.79 (R)	
7/14/2015	8.32	
1/25/2016	7.64	
2/10/2016	7.72 (R)	
7/19/2016	7.9	
3/27/2017	8 (R)	
8/24/2017	8.37 (R)	
1/22/2018	7.57	
7/26/2018	7.76	
3/6/2019	7.9	
7/23/2019	7.92	
1/8/2020	7.89	
7/16/2020	7.89	
1/19/2021	8.19	
7/19/2021	7.69	
1/18/2022	8.13	
7/11/2022	7.23	
8/22/2022	7.42	
1/26/2023	7.91	
8/15/2023	7.38	
3/13/2024	7.74	
8/4/2025		7.36

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=9.047, Std. Dev.=0.3869, n=37. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9639, critical = 0.936. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: pH (unitless) Analysis Run 9/19/2025 6:08 PM

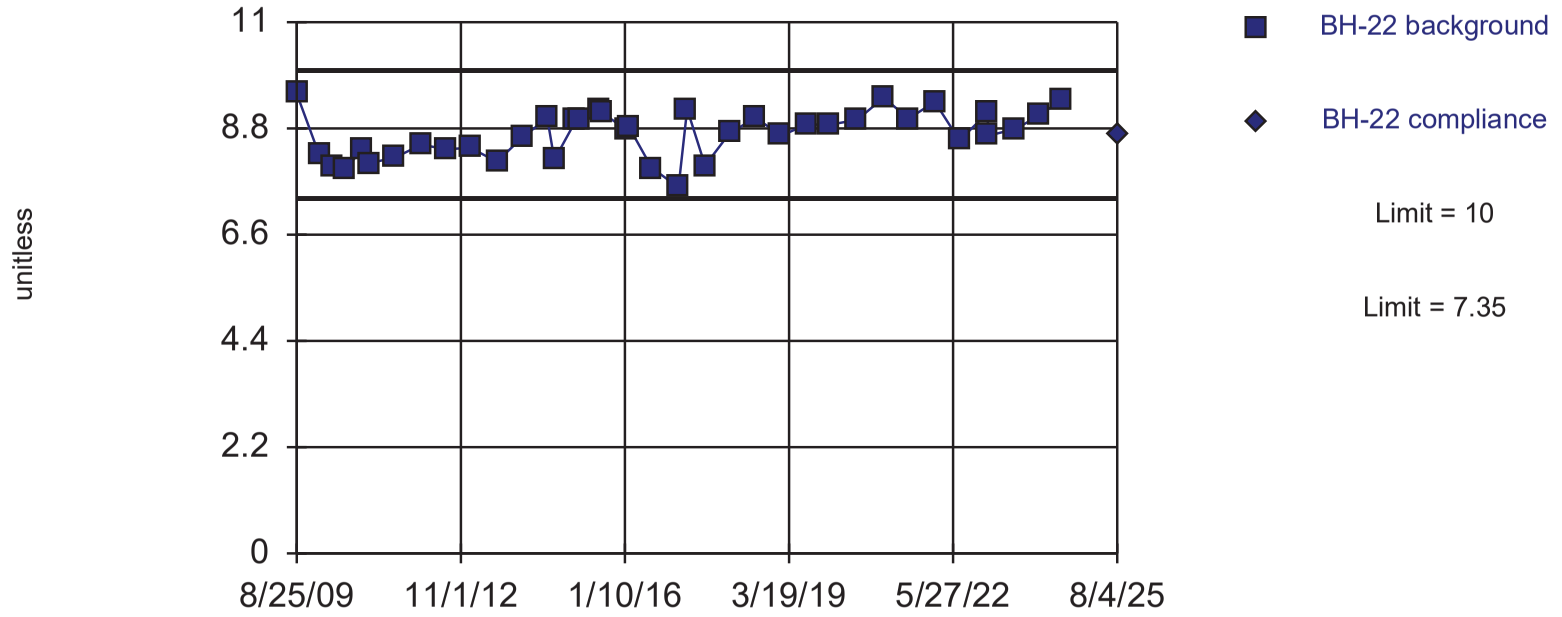
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
1/29/2009	8.84	
8/25/2009	8.92	
2/1/2010	8.75	
7/29/2010	8.72	
1/25/2011	8.89	
7/25/2011	8.94	
1/25/2012	9.18	
7/25/2012	9.05	
1/8/2013	9.01	
7/16/2013	8.94	
1/14/2014	8.96	
7/8/2014	9.11	
1/27/2015	9.02	
7/14/2015	9.07	
1/25/2016	8.58	
2/10/2016	8.9 (R)	
7/19/2016	8.93	
1/25/2017	9.84	
3/27/2017	9 (R)	
8/1/2017	9.75	
8/24/2017	9.37 (R)	
1/23/2018	8.29	
4/4/2018	8.35 (R)	
7/26/2018	9.15	
1/22/2019	8.97	
7/23/2019	9.18	
1/8/2020	9	
7/16/2020	9.57	
1/20/2021	8.98	
7/14/2021	9.35	
1/18/2022	9.61	
8/22/2022	8.72	
1/26/2023	9.23	
8/31/2023	9.64	
1/30/2024	8.06	
5/22/2024	9.35	
7/10/2024	9.53	
8/4/2025		8.91

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.682, Std. Dev.=0.4834, n=39. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9638, critical = 0.939. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: pH (unitless) Analysis Run 9/19/2025 6:08 PM

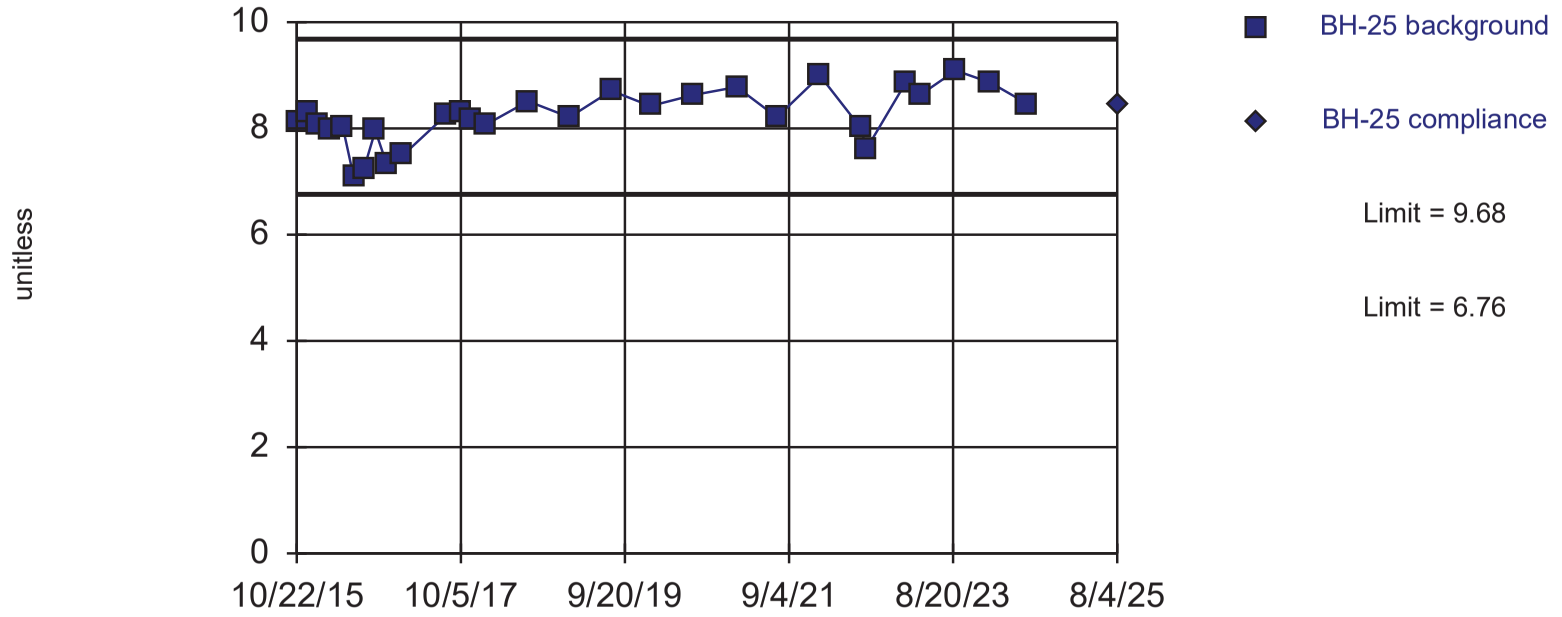
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-22	BH-22
8/25/2009	9.52	
2/1/2010	8.25	
5/12/2010	8.01	
7/27/2010	7.95	
11/30/2010	8.34	
1/25/2011	8.08	
7/25/2011	8.2	
1/25/2012	8.46	
7/25/2012	8.37	
1/8/2013	8.4	
7/16/2013	8.11	
1/14/2014	8.62	
7/8/2014	9.01	
8/27/2014	8.15 (R)	
1/27/2015	8.97	
2/19/2015	8.98 (R)	
7/14/2015	9.2	
8/5/2015	9.11 (R)	
1/25/2016	8.77	
2/10/2016	8.82 (R)	
7/19/2016	7.98	
1/25/2017	7.58	
3/27/2017	9.2 (R)	
8/1/2017	8.03	
1/22/2018	8.7	
7/26/2018	9.02	
1/22/2019	8.65	
7/23/2019	8.88	
1/8/2020	8.88	
7/16/2020	8.98	
1/20/2021	9.44	
7/14/2021	9	
1/18/2022	9.35	
7/12/2022	8.55	
1/26/2023	9.12	
2/1/2023	8.65	
8/15/2023	8.79	
1/30/2024	9.07	
7/10/2024	9.4	
8/4/2025		8.68

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=8.218, Std. Dev.=0.5196, n=29. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9598, critical = 0.926. Report alpha = 0.01. Most recent point compared to limit.

Constituent: pH Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: pH (unitless) Analysis Run 9/19/2025 6:08 PM

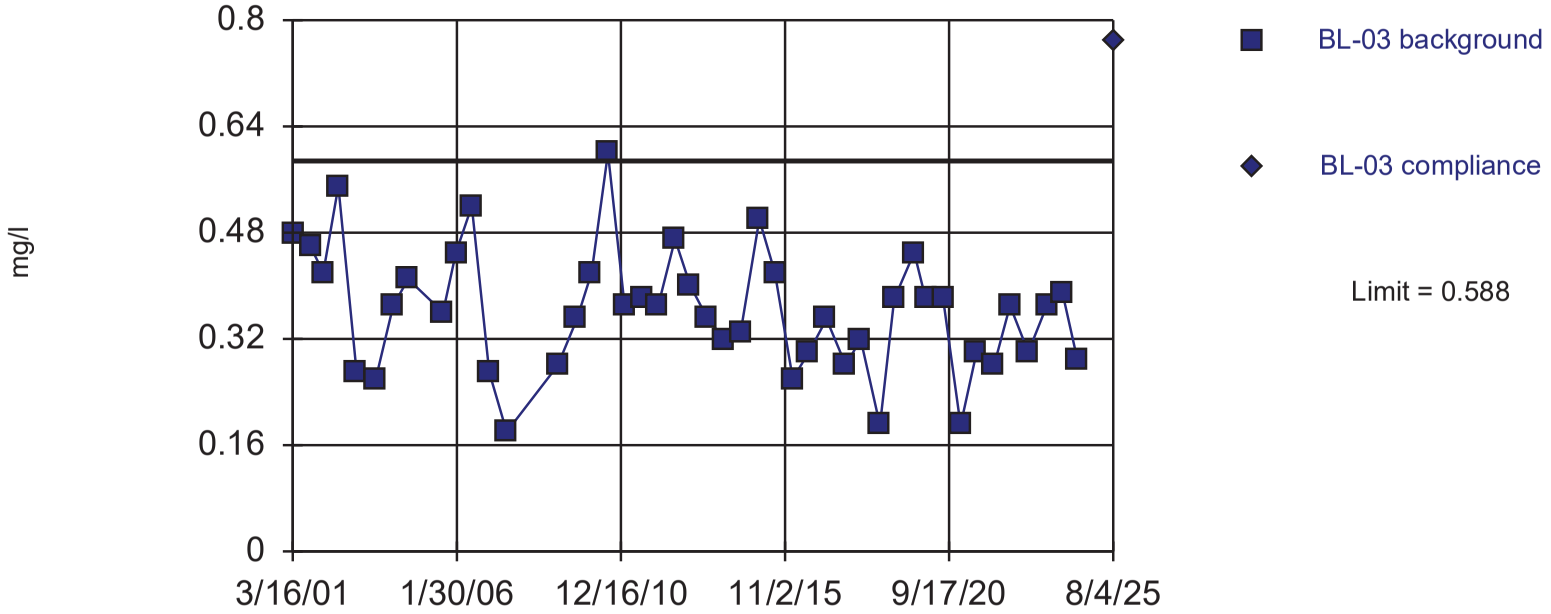
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-25	BH-25
10/22/2015	8.13	
12/8/2015	8.31	
1/25/2016	8.05	
3/15/2016	7.98	
5/10/2016	8.01	
6/27/2016	7.07	
8/8/2016	7.22	
9/28/2016	7.96	
11/17/2016	7.32	
1/25/2017	7.49	
8/2/2017	8.25	
10/3/2017	8.28	
11/20/2017	8.16	
1/22/2018	8.07	
7/26/2018	8.51	
1/22/2019	8.21	
7/23/2019	8.71	
1/9/2020	8.42	
7/15/2020	8.63	
1/20/2021	8.78	
7/14/2021	8.21	
1/18/2022	8.99	
7/12/2022	8.02	
8/9/2022	7.62	
1/26/2023	8.86	
4/3/2023	8.64	
8/31/2023	9.09	
1/30/2024	8.86	
7/10/2024	8.46	
8/4/2025		8.45

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.3631, Std. Dev.=0.09229, n=45. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9784, critical = 0.945. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Potassium [K] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Potassium [K] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

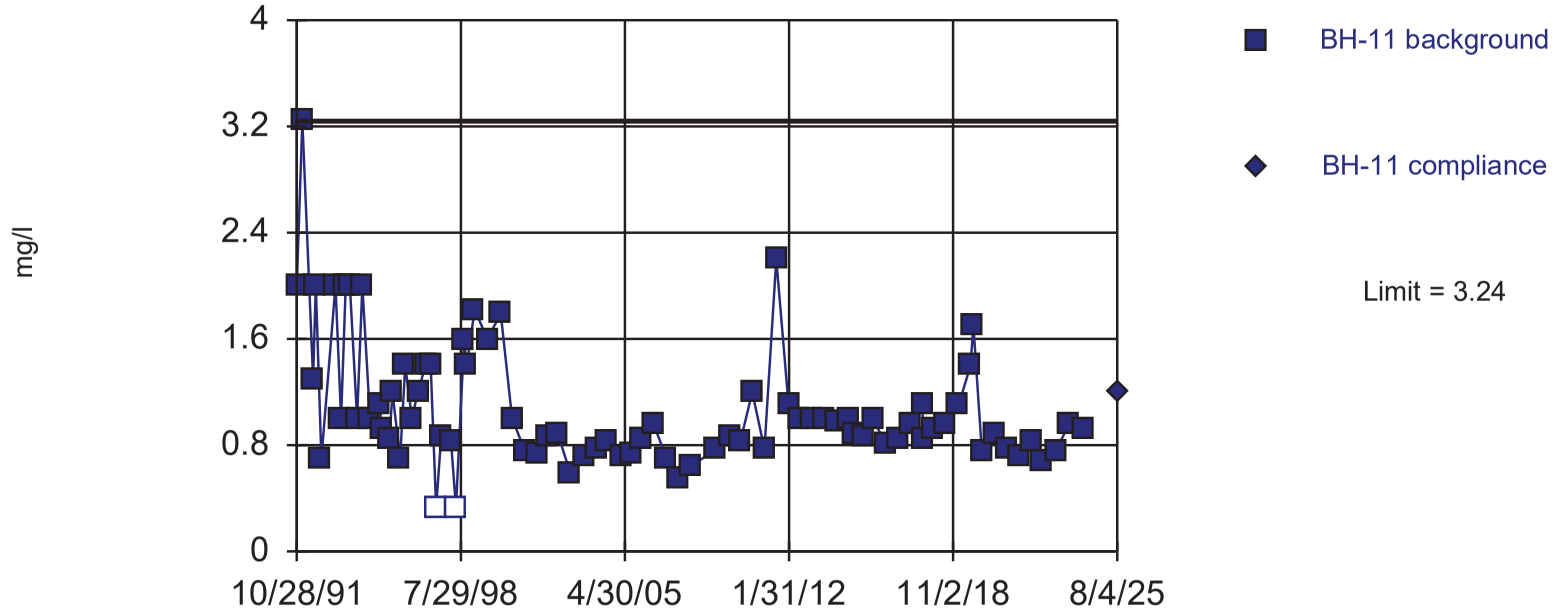
	BL-03	BL-03
3/16/2001	0.48 (J)	
9/21/2001	0.46 (J)	
2/11/2002	0.42 (J)	
7/23/2002	0.55 (J)	
2/6/2003	0.27 (J)	
9/4/2003	0.26 (J)	
3/11/2004	0.37 (J)	
8/19/2004	0.41 (J)	
9/2/2005	0.36 (J)	
1/20/2006	0.45 (J)	
7/12/2006	0.52 (J)	
1/17/2007	0.27 (J)	
7/26/2007	0.18 (J)	
1/29/2009	0.28 (J)	
8/25/2009	0.35 (J)	
2/1/2010	0.42 (J)	
7/29/2010	0.6 (J)	
1/25/2011	0.37 (J)	
7/25/2011	0.38 (J)	
1/25/2012	0.37 (J)	
7/25/2012	0.47 (J)	
1/8/2013	0.4 (J)	
7/16/2013	0.35 (J)	
1/14/2014	0.32 (J)	
7/8/2014	0.33 (J)	
1/28/2015	0.5 (J)	
7/14/2015	0.42 (J)	
1/25/2016	0.26 (J)	
7/19/2016	0.3 (J)	
1/25/2017	0.35 (J)	
8/24/2017	0.28 (J)	
1/30/2018	0.32 (J)	
8/29/2018	0.19 (J)	
1/31/2019	0.38 (J)	
9/4/2019	0.45 (J)	
1/8/2020	0.38 (J)	
7/15/2020	0.38 (J)	
1/20/2021	0.19 (J)	
7/14/2021	0.3 (J)	
1/18/2022	0.28 (J)	
7/12/2022	0.37 (J)	
1/26/2023	0.3 (J)	
8/15/2023	0.37 (J)	
1/30/2024	0.39 (J)	
7/10/2024	0.29 (J)	
8/4/2025		0.77

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 81 background values. 2.469% NDs. Report alpha = 0.0122. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Potassium [K] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Potassium [K] (mg/l) Analysis Run 9/19/2025 6:08 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-11	BH-11
10/28/1991	2	
1/20/1992	3.24	
6/29/1992	1.3	
8/10/1992	2	
11/2/1992	0.7	
6/1/1993	2	
8/23/1993	1	
11/1/1993	2	
1/3/1994	2	
4/21/1994	1	
7/11/1994	2	
11/3/1994	1	
4/3/1995	1.1 (J)	
4/17/1995	0.93 (J)	
8/23/1995	0.85 (J)	
10/5/1995	1.2 (J)	
1/29/1996	0.7	
4/15/1996	1.4	
7/25/1996	1	
10/22/1996	1.2	
2/14/1997	1.4	
5/1/1997	1.4	
7/23/1997	<0.66	
10/7/1997	0.87	
3/3/1998	0.83	
5/18/1998	<0.66	
9/16/1998	1.59	
10/26/1998	1.4	
2/22/1999	1.82	
9/1/1999	1.6	
3/20/2000	1.79	
9/7/2000	1	
3/27/2001	0.75 (J)	
9/21/2001	0.74 (J)	
2/11/2002	0.87 (J)	
7/25/2002	0.89 (J)	
2/5/2003	0.58 (J)	
9/4/2003	0.71 (J)	
3/16/2004	0.78 (J)	
8/19/2004	0.82 (J)	
3/30/2005	0.72 (J)	
8/2/2005	0.74 (J)	
1/23/2006	0.85 (J)	
7/11/2006	0.95 (J)	
1/17/2007	0.7 (J)	
7/25/2007	0.55 (J)	
1/16/2008	0.64 (J)	
1/29/2009	0.77 (J)	
8/25/2009	0.86 (J)	
2/1/2010	0.83 (J)	
7/27/2010	1.2	
1/26/2011	0.77 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Potassium [K] (mg/l) Analysis Run 9/19/2025 6:09 PM

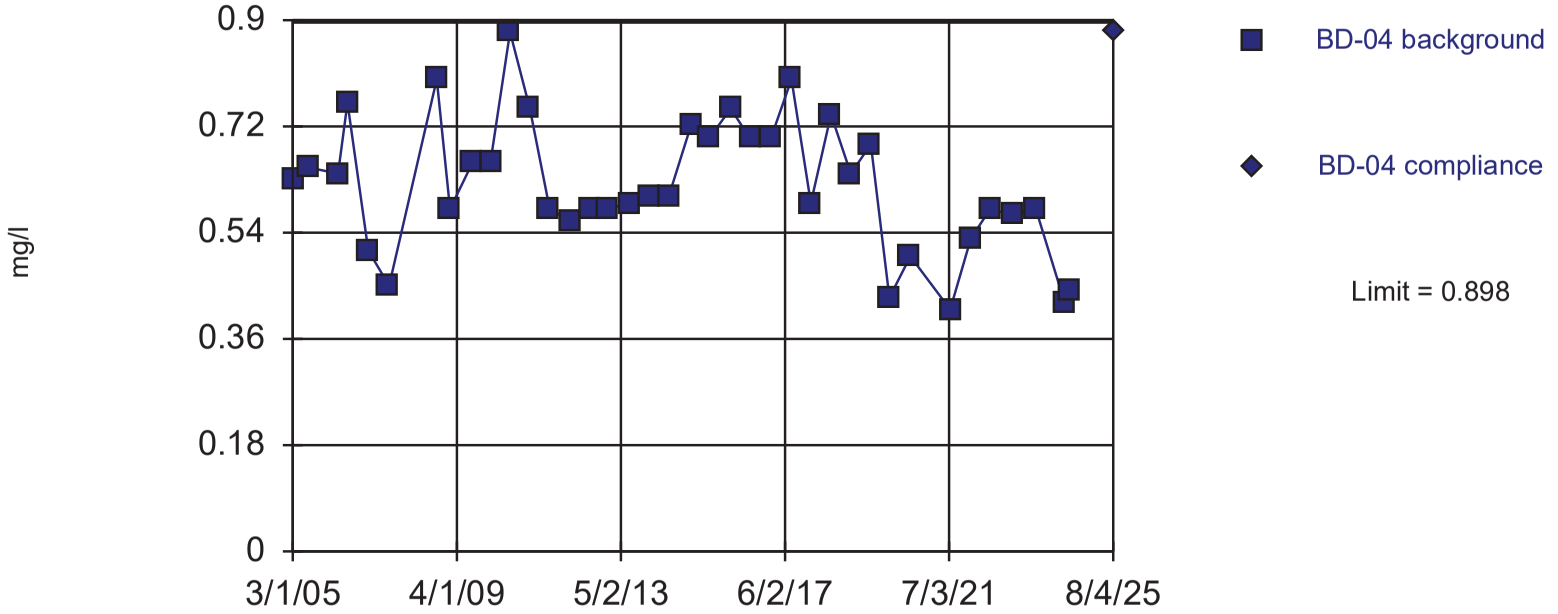
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-11	BH-11
7/25/2011	2.2	
1/25/2012	1.1	
7/25/2012	1	
1/8/2013	1	
7/16/2013	1	
1/14/2014	0.98 (J)	
7/8/2014	1	
10/1/2014	0.88 (R)	
2/19/2015	0.87 (JR)	
7/14/2015	1	
1/25/2016	0.81 (J)	
7/19/2016	0.84 (J)	
1/26/2017	0.95 (J)	
7/24/2017	1.1	
8/24/2017	0.85 (R)	
1/22/2018	0.92 (J)	
7/26/2018	0.95 (J)	
1/22/2019	1.1	
7/23/2019	1.4	
9/4/2019	1.7 (R)	
1/8/2020	0.75 (J)	
7/16/2020	0.88 (J)	
1/19/2021	0.77 (J)	
7/19/2021	0.72 (J)	
1/18/2022	0.82 (J)	
7/11/2022	0.68 (J)	
1/26/2023	0.76 (J)	
8/15/2023	0.96 (J)	
3/13/2024	0.93 (J)	
8/4/2025		1.2

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.6197, Std. Dev.=0.1131, n=38. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.972, critical = 0.938. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Potassium [K] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Potassium [K] (mg/l) Analysis Run 9/19/2025 6:09 PM

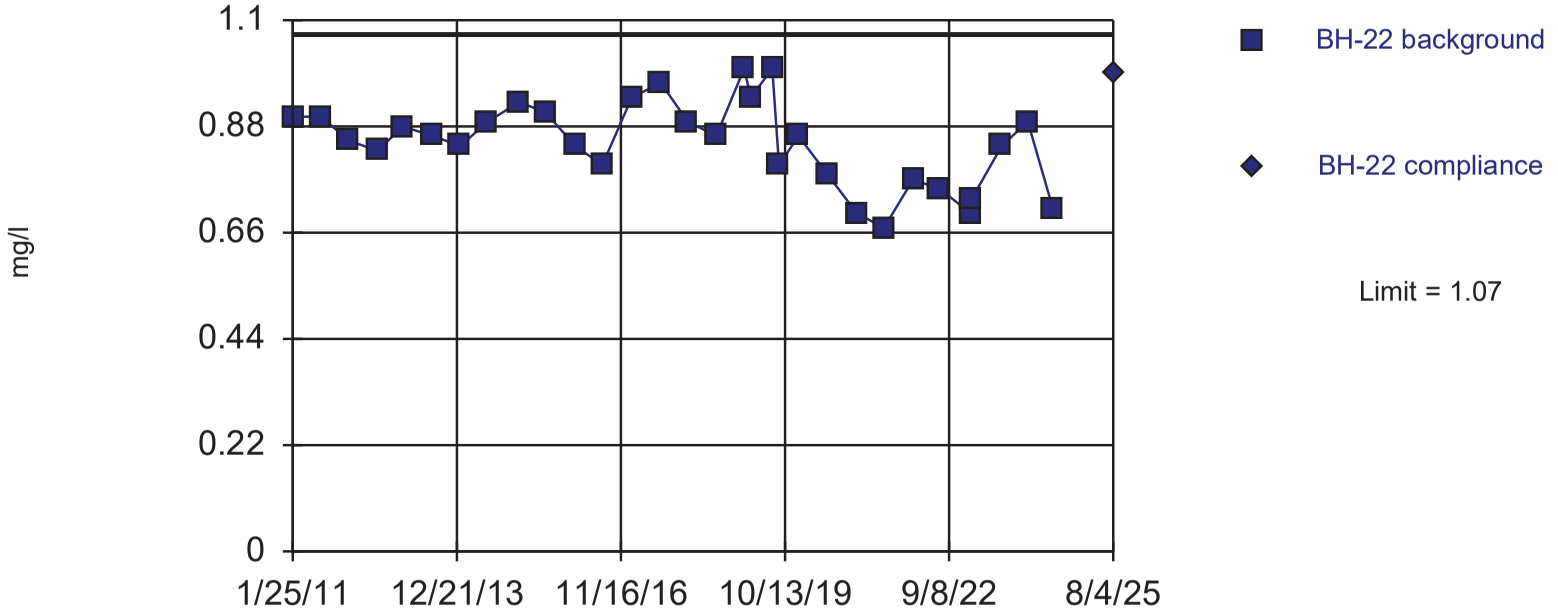
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
3/1/2005	0.63 (J)	
8/2/2005	0.65 (J)	
4/17/2006	0.64 (J)	
7/12/2006	0.76 (J)	
1/17/2007	0.51 (J)	
7/25/2007	0.45 (J)	
9/30/2008	0.8 (J)	
1/29/2009	0.58 (J)	
8/25/2009	0.66 (J)	
2/1/2010	0.66 (J)	
7/29/2010	0.88 (J)	
1/25/2011	0.75 (J)	
7/25/2011	0.58 (J)	
1/25/2012	0.56 (J)	
7/25/2012	0.58 (J)	
1/8/2013	0.58 (J)	
7/16/2013	0.59 (J)	
1/14/2014	0.6 (J)	
7/8/2014	0.6 (J)	
1/27/2015	0.72 (J)	
7/14/2015	0.7 (J)	
1/25/2016	0.75 (J)	
7/19/2016	0.7 (J)	
1/25/2017	0.7 (J)	
8/1/2017	0.8 (J)	
1/23/2018	0.59 (J)	
7/26/2018	0.74 (J)	
1/22/2019	0.64 (J)	
7/23/2019	0.69 (J)	
1/8/2020	0.43 (J)	
7/16/2020	0.5 (J)	
7/14/2021	0.41 (J)	
1/18/2022	0.53 (J)	
7/12/2022	0.58 (J)	
1/26/2023	0.57 (J)	
8/31/2023	0.58 (J)	
5/22/2024	0.42 (J)	
7/10/2024	0.44 (J)	
8/4/2025		0.88

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.8461, Std. Dev.=0.08842, n=31. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.964, critical = 0.929. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Potassium [K] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Potassium [K] (mg/l) Analysis Run 9/19/2025 6:09 PM

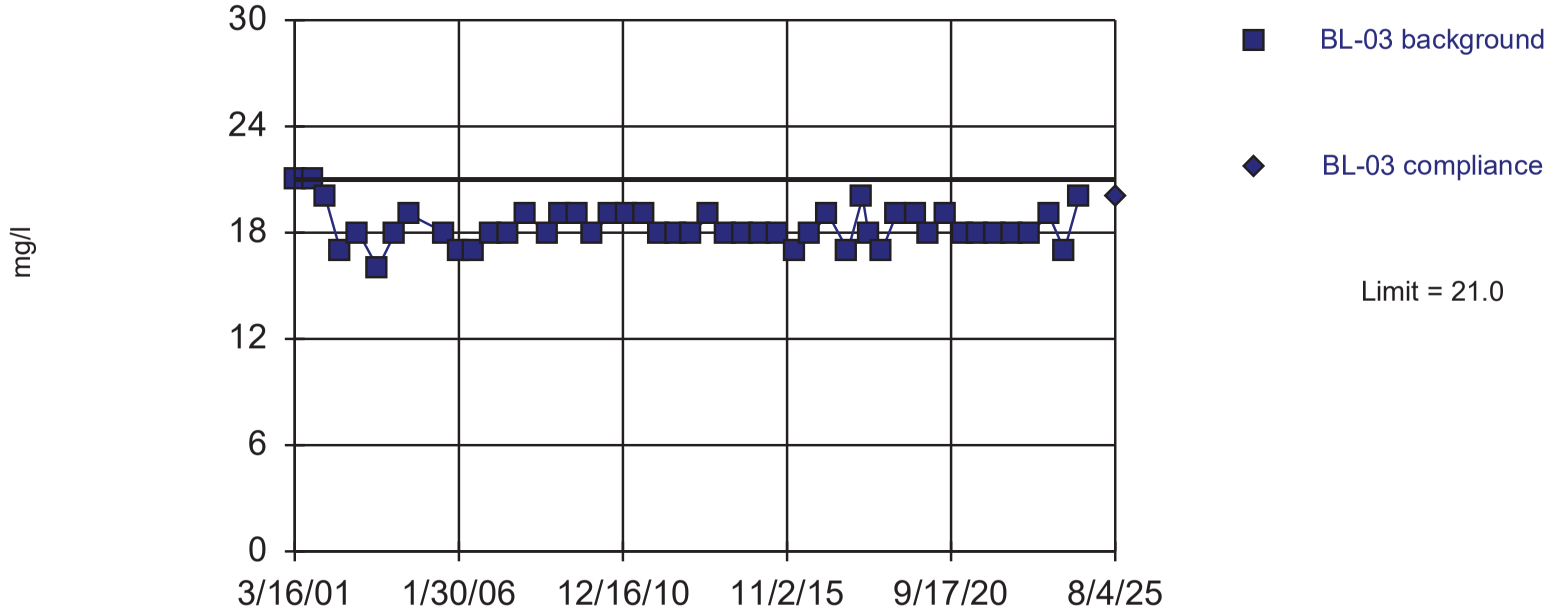
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-22	BH-22
1/25/2011	0.9 (J)	
7/25/2011	0.9 (J)	
1/25/2012	0.85 (J)	
7/25/2012	0.83 (J)	
1/8/2013	0.88 (J)	
7/16/2013	0.86 (J)	
1/14/2014	0.84 (J)	
7/8/2014	0.89 (J)	
1/27/2015	0.93 (J)	
7/14/2015	0.91 (J)	
1/25/2016	0.84 (J)	
7/19/2016	0.8 (J)	
1/25/2017	0.94 (J)	
8/1/2017	0.97 (J)	
1/22/2018	0.89 (J)	
7/26/2018	0.86 (J)	
1/22/2019	1	
3/6/2019	0.94 (R)	
7/23/2019	1	
9/4/2019	0.8 (RJ)	
1/8/2020	0.86 (J)	
7/16/2020	0.78 (J)	
1/20/2021	0.7 (J)	
7/14/2021	0.67 (J)	
1/18/2022	0.77 (J)	
7/12/2022	0.75 (J)	
1/26/2023	0.7 (J)	
2/1/2023	0.73 (J)	
8/15/2023	0.84 (J)	
1/30/2024	0.89 (J)	
7/10/2024	0.71	
8/4/2025		0.99

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 48 background values. Report alpha = 0.02041. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate [SO4] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Sulfate [SO4] (mg/l) Analysis Run 9/19/2025 6:09 PM

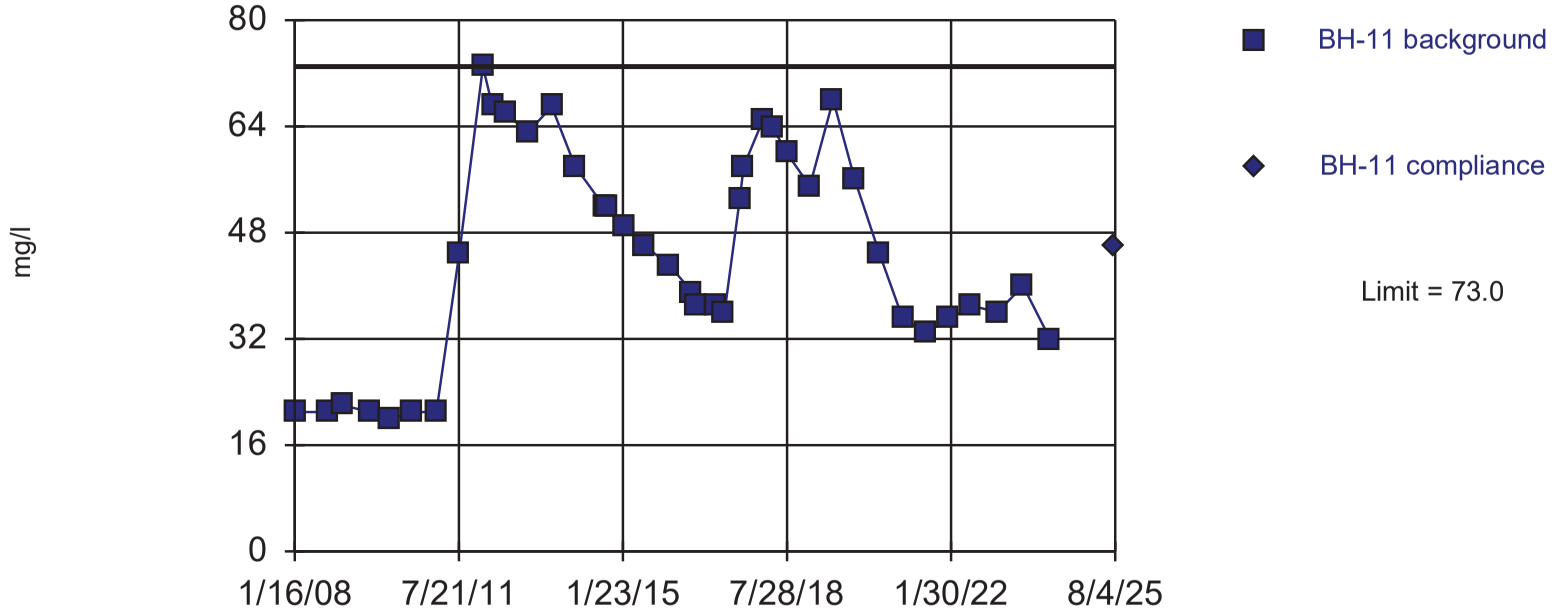
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
3/16/2001	21	
9/21/2001	21	
2/11/2002	20	
7/23/2002	17	
2/6/2003	18	
9/4/2003	16	
3/11/2004	18	
8/19/2004	19	
9/2/2005	18	
1/20/2006	17	
7/12/2006	17	
1/17/2007	18	
7/26/2007	18	
1/16/2008	19	
9/30/2008	18	
1/29/2009	19	
8/25/2009	19	
2/1/2010	18	
7/29/2010	19	
1/25/2011	19	
7/25/2011	19	
1/25/2012	18	
7/25/2012	18	
1/8/2013	18	
7/16/2013	19	
1/14/2014	18 (J)	
7/8/2014	18	
1/28/2015	18	
7/14/2015	18	
1/25/2016	17	
7/19/2016	18	
1/25/2017	19	
8/24/2017	17	
1/30/2018	20	
4/4/2018	18 (R)	
8/29/2018	17	
1/31/2019	19	
9/4/2019	19	
1/8/2020	18	
7/15/2020	19	
1/20/2021	18	
7/14/2021	18	
1/18/2022	18	
7/12/2022	18	
1/26/2023	18	
8/15/2023	19	
1/30/2024	17	
7/10/2024	20	
8/4/2025		20

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 39 background values. Report alpha = 0.025. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate [SO4] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Sulfate [SO4] (mg/l) Analysis Run 9/19/2025 6:09 PM

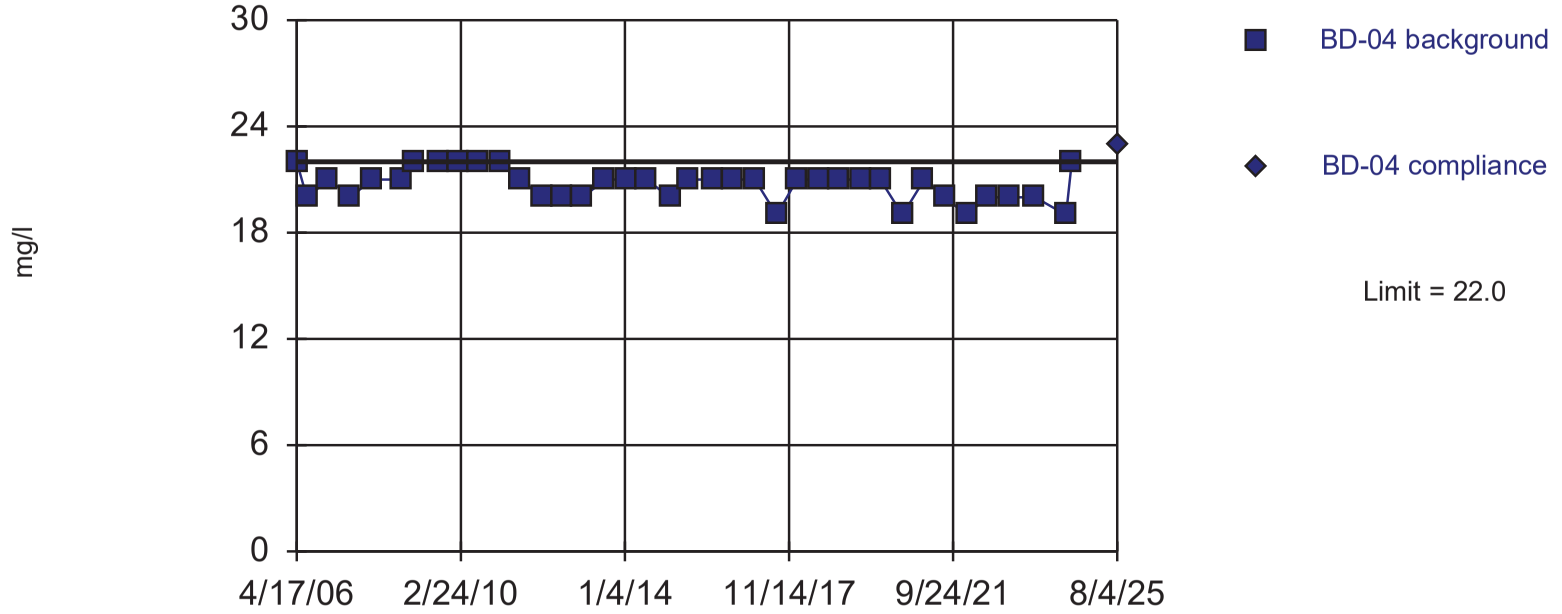
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-11	BH-11
1/16/2008	21	
9/30/2008	21	
1/29/2009	22	
8/25/2009	21	
2/1/2010	20	
7/27/2010	21	
1/26/2011	21	
7/25/2011	45	
1/25/2012	73	
4/9/2012	67 (R)	
7/25/2012	66	
1/8/2013	63	
7/16/2013	67	
1/14/2014	58	
8/27/2014	52 (R)	
10/1/2014	52 (R)	
1/28/2015	49	
7/14/2015	46	
1/25/2016	43	
7/19/2016	39	
8/24/2016	37 (R)	
1/26/2017	37	
3/27/2017	36 (R)	
7/24/2017	53	
8/24/2017	58 (R)	
1/22/2018	65	
4/4/2018	64 (R)	
7/26/2018	60	
1/22/2019	55	
7/23/2019	68	
1/8/2020	56	
7/16/2020	45	
1/19/2021	35	
7/19/2021	33	
1/18/2022	35	
7/11/2022	37	
1/26/2023	36	
8/15/2023	40	
3/13/2024	32	
8/4/2025		46

Exceeds Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 38 background values. Report alpha = 0.02564. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate [SO4] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Sulfate [SO4] (mg/l) Analysis Run 9/19/2025 6:09 PM

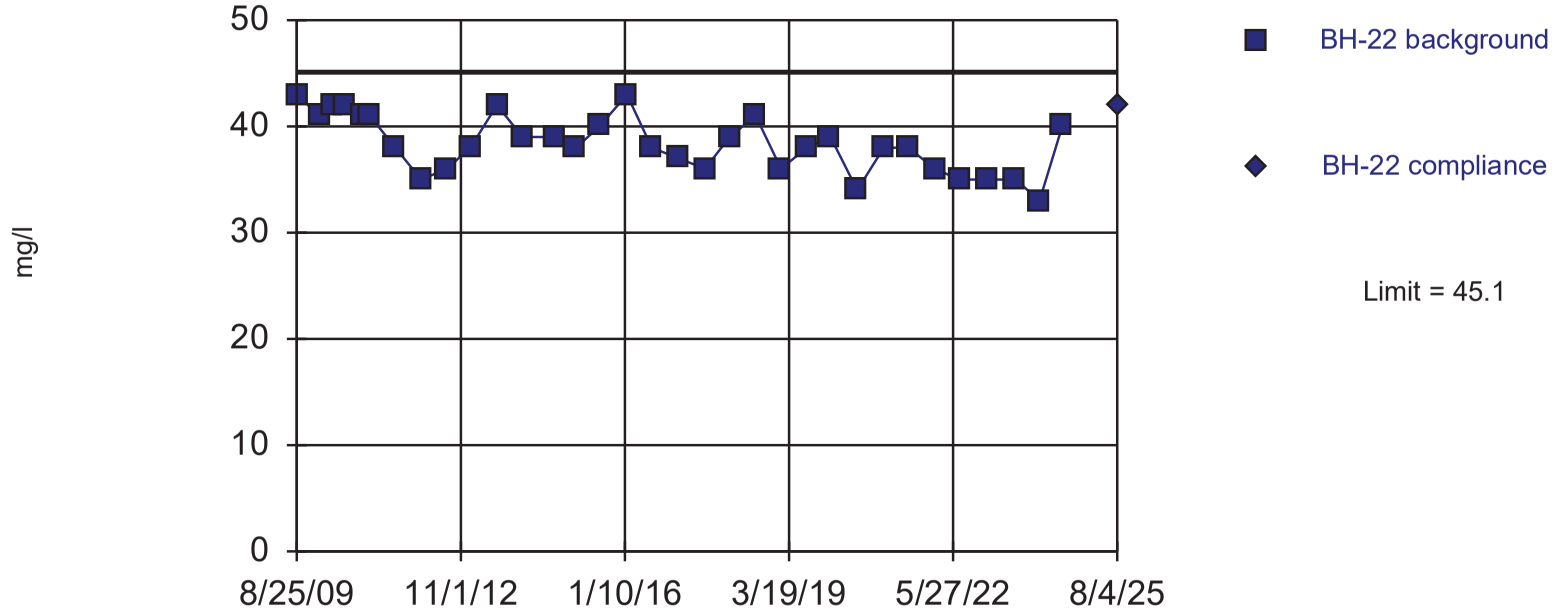
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
4/17/2006	22	
7/12/2006	20	
1/17/2007	21	
7/25/2007	20	
1/16/2008	21	
9/30/2008	21	
1/29/2009	22	
8/25/2009	22	
2/1/2010	22	
7/29/2010	22	
1/25/2011	22	
7/25/2011	21	
1/25/2012	20	
7/25/2012	20	
1/8/2013	20	
7/16/2013	21	
1/14/2014	21 (J)	
7/8/2014	21	
1/27/2015	20	
7/14/2015	21	
1/25/2016	21	
7/19/2016	21	
1/25/2017	21	
8/1/2017	19	
1/23/2018	21	
7/26/2018	21	
1/22/2019	21	
7/23/2019	21	
1/8/2020	21	
7/16/2020	19	
1/20/2021	21	
7/14/2021	20	
1/18/2022	19	
7/12/2022	20	
1/26/2023	20	
8/31/2023	20	
5/22/2024	19	
7/10/2024	22	
8/4/2025		23

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=38.36, Std. Dev.=2.714, n=33. Insufficient data to test for seasonality: data were not deseasonalized. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9565, critical = 0.931. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Sulfate [SO4] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Sulfate [SO4] (mg/l) Analysis Run 9/19/2025 6:09 PM

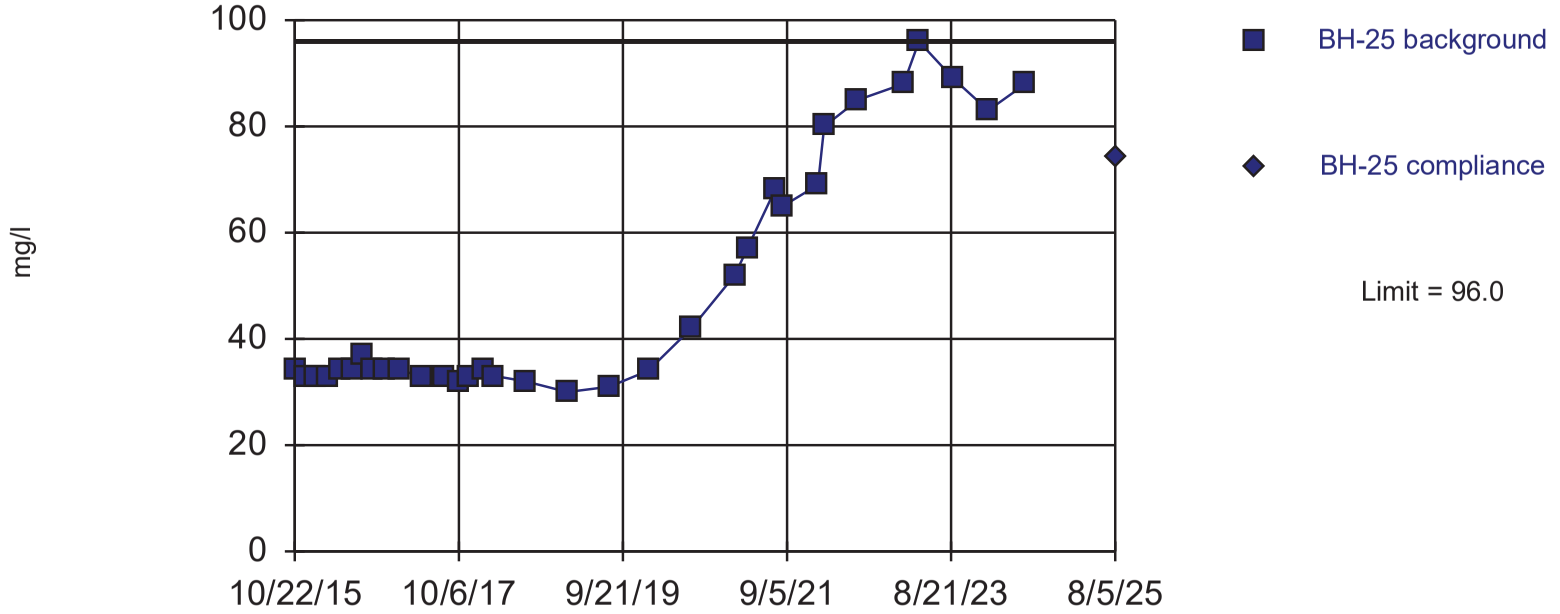
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-22	BH-22
8/25/2009	43	
2/1/2010	41	
5/12/2010	42	
7/27/2010	42	
11/30/2010	41	
1/25/2011	41	
7/25/2011	38	
1/25/2012	35	
7/25/2012	36	
1/8/2013	38	
7/16/2013	42	
1/14/2014	39	
8/27/2014	39 (R)	
1/27/2015	38	
7/14/2015	40	
1/25/2016	43	
7/19/2016	38	
1/25/2017	37	
8/1/2017	36	
1/22/2018	39	
7/26/2018	41	
1/22/2019	36	
7/23/2019	38	
1/8/2020	39	
7/16/2020	34	
1/20/2021	38	
7/14/2021	38	
1/18/2022	36	
7/12/2022	35	
2/1/2023	35	
8/15/2023	35	
1/30/2024	33	
7/10/2024	40	
8/4/2025		42

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 33 background values. Report alpha = 0.02941. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Sulfate [SO4] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Sulfate [SO4] (mg/l) Analysis Run 9/19/2025 6:09 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

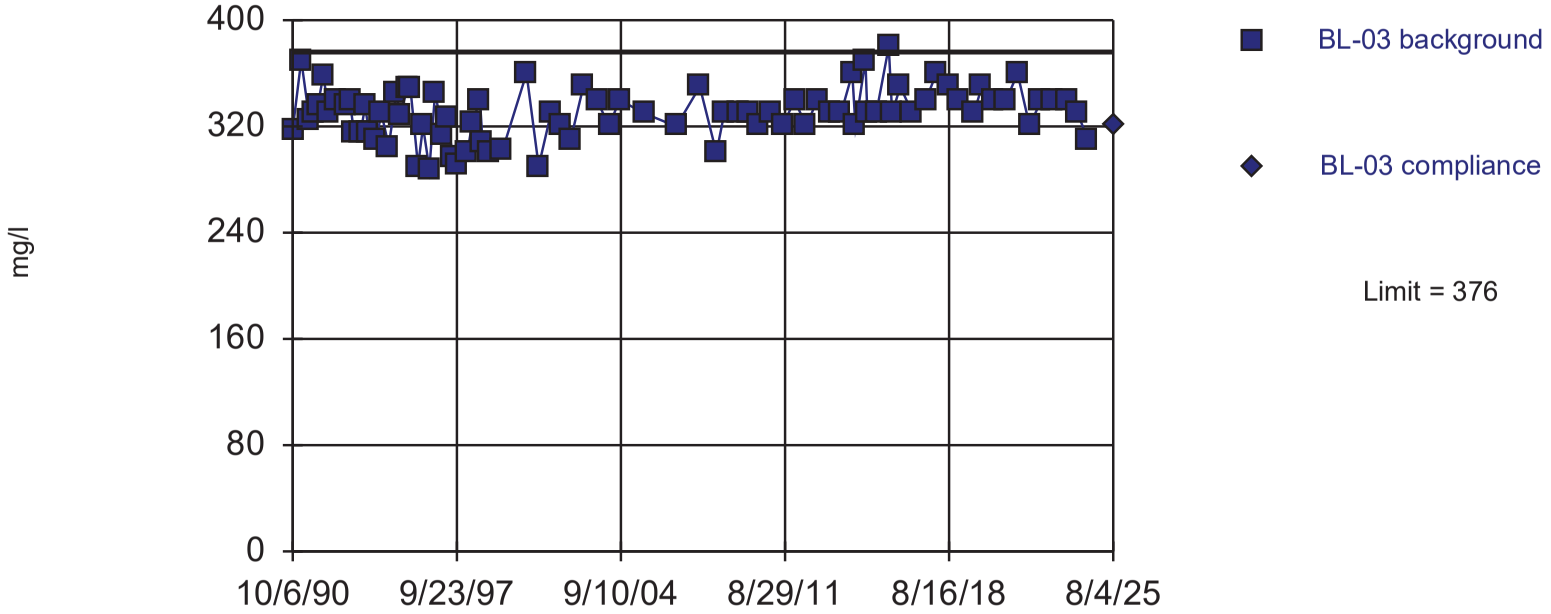
	BH-25	BH-25
10/22/2015	34	
12/8/2015	33	
1/25/2016	33	
3/15/2016	33	
5/10/2016	34	
6/27/2016	34	
8/8/2016	37	
9/28/2016	34	
11/17/2016	34	
1/25/2017	34	
5/1/2017	33	
8/2/2017	33	
10/3/2017	32	
11/20/2017	33	
1/22/2018	34	
3/12/2018	33	
7/26/2018	32	
1/22/2019	30	
7/23/2019	31	
1/9/2020	34	
7/15/2020	42	
1/20/2021	52	
3/16/2021	57 (R)	
7/14/2021	68	
8/18/2021	65 (R)	
1/18/2022	69	
2/14/2022	80 (R)	
7/12/2022	85	
1/26/2023	88	
4/3/2023	96	
8/31/2023	89	
1/30/2024	83	
7/10/2024	88	
8/5/2025		74

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Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=330, Std. Dev.=19.19, n=83. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.981, critical = 0.971. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/19/2025 6:05 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
10/6/1990	318	
2/14/1991	370	
6/20/1991	325	
9/11/1991	330	
10/28/1991	335	
1/20/1992	358	
4/28/1992	330	
8/6/1992	340	
12/23/1992	335	
3/8/1993	340	
5/14/1993	315	
8/23/1993	315	
11/1/1993	335	
1/3/1994	315	
4/21/1994	310	
7/11/1994	330	
11/3/1994	305	
3/1/1995	346	
4/20/1995	328	
8/23/1995	349	
10/5/1995	348	
1/29/1996	290	
4/15/1996	320	
7/25/1996	288	
10/22/1996	346	
2/14/1997	314	
4/30/1997	326	
7/23/1997	296	
10/7/1997	292	
3/4/1998	300	
5/18/1998	322	
9/16/1998	340	
10/27/1998	308	
2/22/1999	300	
9/1/1999	302	
9/8/2000	360	
3/16/2001	290	
9/21/2001	330	
2/11/2002	320	
7/23/2002	310	
2/6/2003	350	
9/4/2003	340	
3/11/2004	320	
8/19/2004	340	
9/2/2005	330	
1/17/2007	320	
1/16/2008	350	
9/30/2008	300	
1/29/2009	330	
8/25/2009	330	
2/1/2010	330	
7/29/2010	320	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

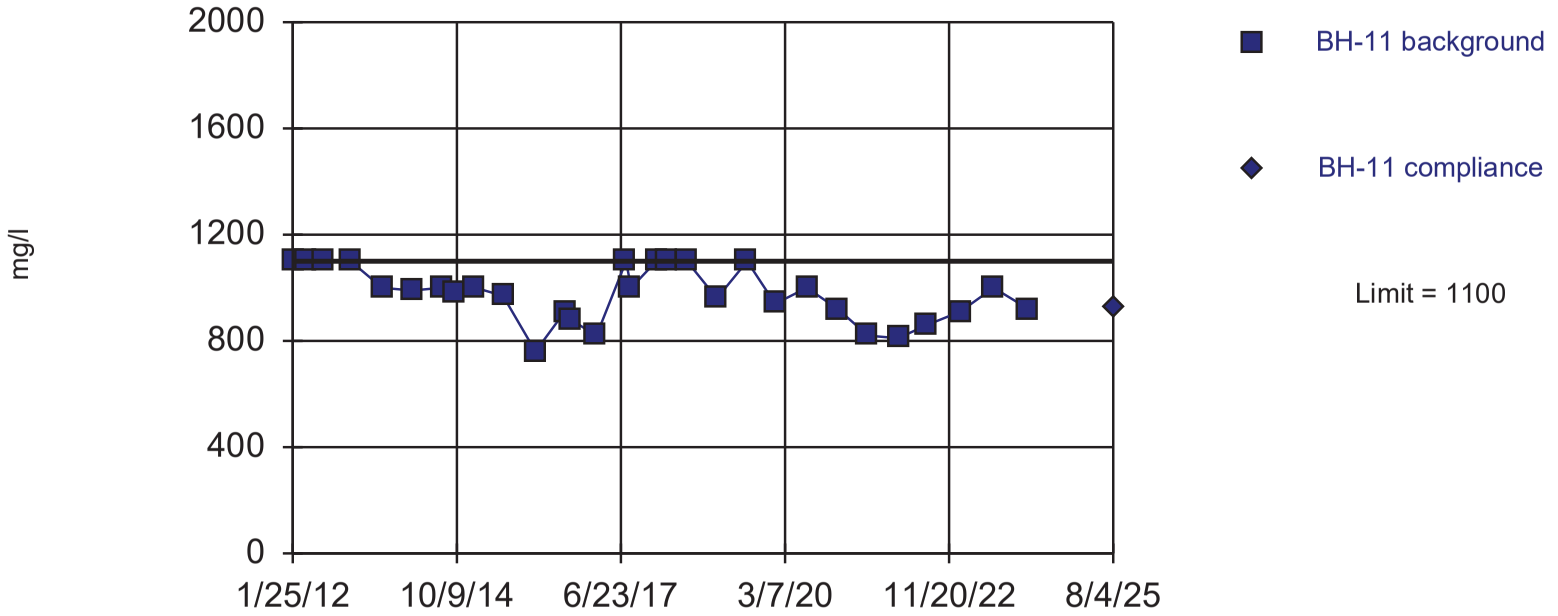
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BL-03	BL-03
1/25/2011	330	
7/25/2011	320	
1/25/2012	340	
7/25/2012	320	
1/8/2013	340	
7/16/2013	330	
1/14/2014	330	
7/8/2014	360	
8/27/2014	320 (R)	
1/28/2015	370	
2/25/2015	330 (R)	
7/14/2015	330	
1/25/2016	380	
3/17/2016	330 (R)	
7/20/2016	350	
1/25/2017	330	
8/24/2017	340	
1/30/2018	360	
8/29/2018	350	
1/31/2019	340	
9/4/2019	330	
1/8/2020	350	
7/15/2020	340	
1/20/2021	340	
7/14/2021	360	
1/18/2022	320	
7/12/2022	340	
1/26/2023	340	
8/15/2023	340	
1/30/2024	330	
7/10/2024	310	
8/4/2025		320

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 30 background values. Report alpha = 0.03226. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/19/2025 6:06 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

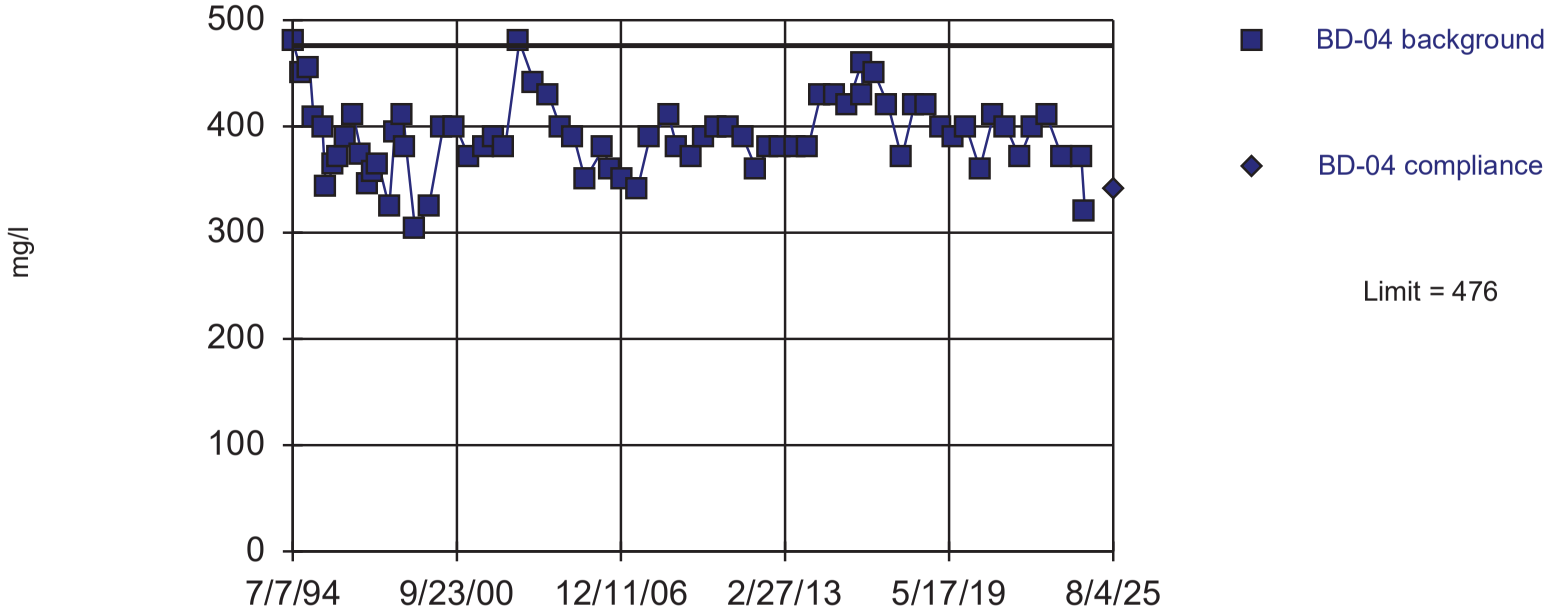
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-11	BH-11
1/25/2012	1100	
4/9/2012	1100 (R)	
7/25/2012	1100	
1/8/2013	1100	
7/16/2013	1000	
1/14/2014	990	
7/8/2014	1000	
10/1/2014	980 (R)	
1/28/2015	1000	
7/14/2015	970	
1/25/2016	760	
7/20/2016	910	
8/24/2016	880 (R)	
1/26/2017	820	
7/24/2017	1100	
8/24/2017	1000 (R)	
1/22/2018	1100	
4/4/2018	1100 (R)	
7/26/2018	1100	
1/22/2019	960	
7/23/2019	1100	
1/8/2020	940	
7/16/2020	1000	
1/19/2021	920	
7/19/2021	820	
1/18/2022	810	
7/11/2022	860	
1/26/2023	910	
8/15/2023	1000	
3/13/2024	920	
8/4/2025		930

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=390.8, Std. Dev.=35.5, n=71. Seasonality was not detected with 95% confidence. Normality test: Shapiro Francia @alpha = 0.05, calculated = 0.9811, critical = 0.967. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/19/2025 6:06 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
7/7/1994	480	
11/9/1994	450	
2/28/1995	454	
4/20/1995	408	
8/23/1995	398	
10/5/1995	342	
1/29/1996	364	
4/15/1996	372	
7/25/1996	390	
10/22/1996	410	
2/14/1997	374	
5/1/1997	346	
7/23/1997	356	
10/7/1997	364	
3/3/1998	324	
5/18/1998	394	
9/16/1998	410	
10/23/1998	380	
2/22/1999	304	
9/1/1999	324	
3/20/2000	400	
9/8/2000	400	
3/16/2001	370	
9/21/2001	380	
2/11/2002	390	
7/23/2002	380	
2/5/2003	480	
9/4/2003	440	
3/15/2004	430	
8/19/2004	400	
3/1/2005	390	
8/2/2005	350	
4/17/2006	380	
7/12/2006	360	
1/17/2007	350	
7/25/2007	340	
1/16/2008	390	
9/30/2008	410	
1/29/2009	380	
8/25/2009	370	
2/1/2010	390	
7/29/2010	400	
1/25/2011	400	
7/25/2011	390	
1/25/2012	360	
7/25/2012	380	
1/8/2013	380	
7/16/2013	380	
1/14/2014	380	
7/8/2014	430	
1/27/2015	430	
7/14/2015	420	

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

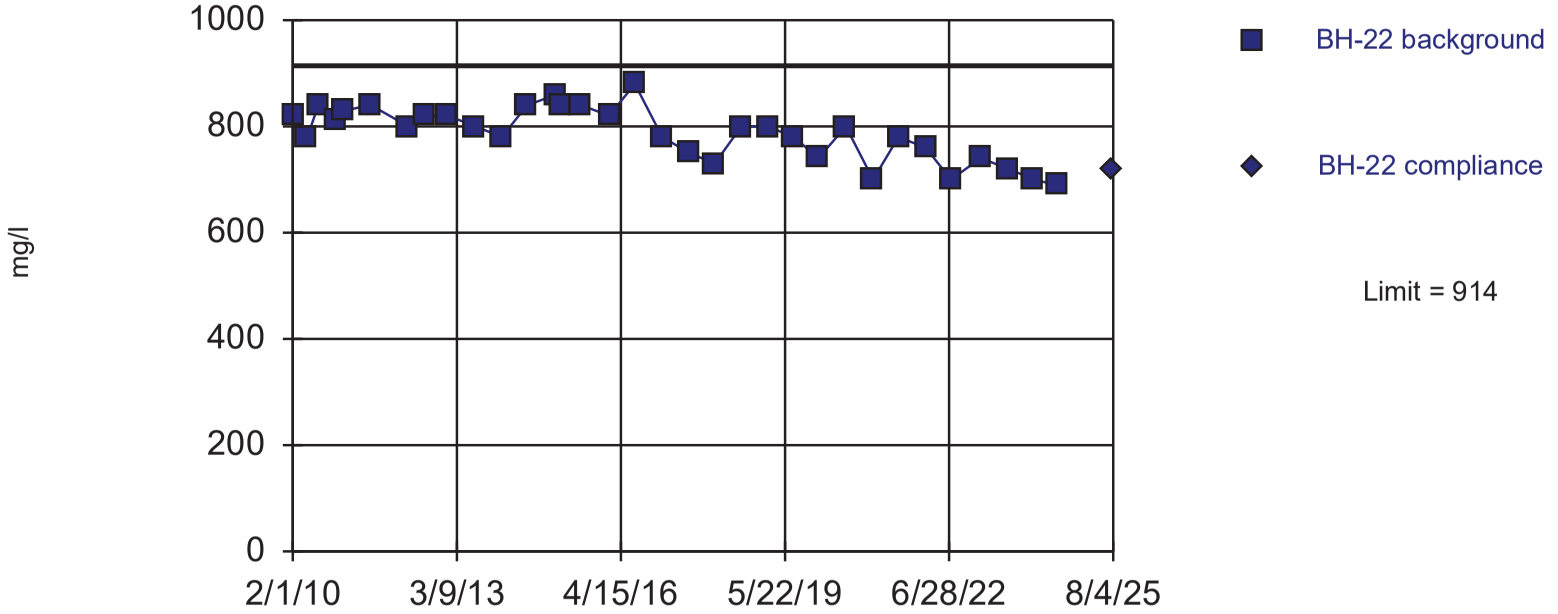
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
1/25/2016	460	
2/10/2016	430 (R)	
7/20/2016	450	
1/25/2017	420	
8/1/2017	370	
1/23/2018	420	
7/26/2018	420	
1/22/2019	400	
7/23/2019	390	
1/8/2020	400	
7/16/2020	360	
1/20/2021	410	
7/14/2021	400	
1/18/2022	370	
7/12/2022	400	
1/26/2023	410	
8/31/2023	370	
5/22/2024	370	
7/10/2024	320	
8/4/2025		340

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=787.6, Std. Dev.=50.68, n=33. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9444, critical = 0.931. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/19/2025 6:06 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

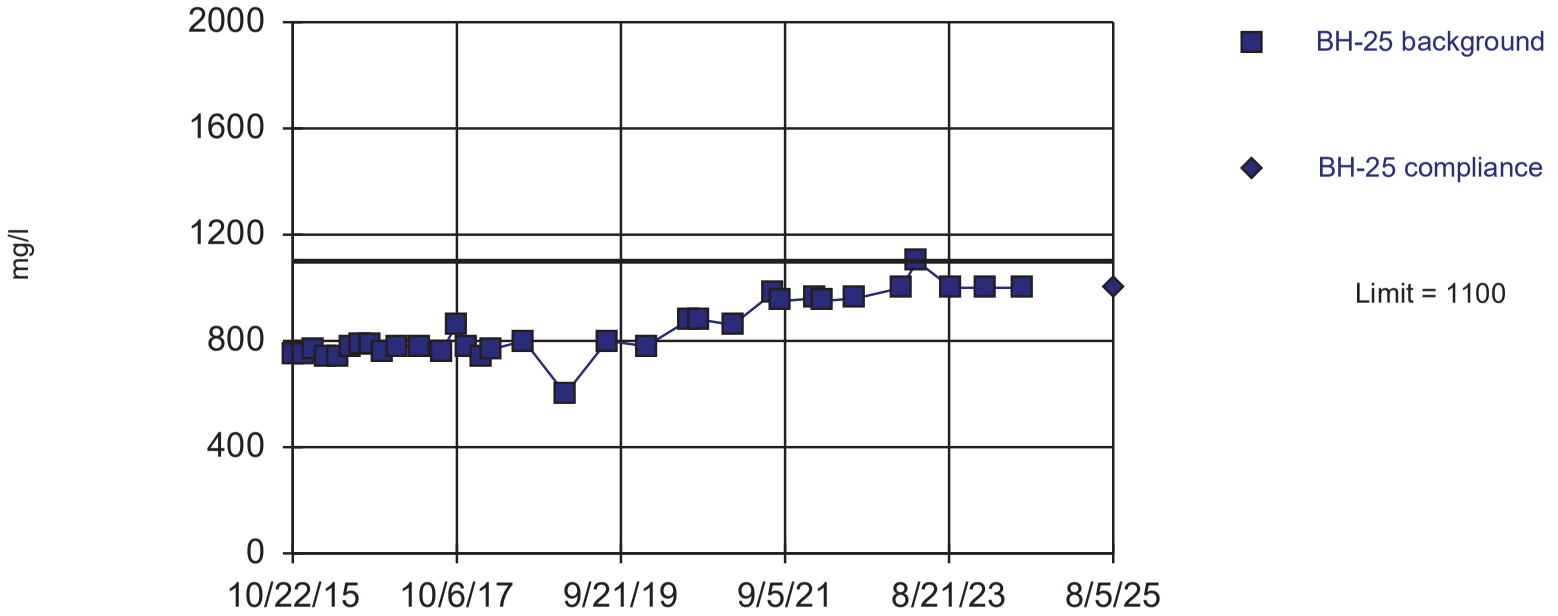
Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-22	BH-22
2/1/2010	820	
5/12/2010	780	
7/27/2010	840	
11/30/2010	810	
1/25/2011	830	
7/25/2011	840	
4/9/2012	800 (R)	
7/25/2012	820	
1/8/2013	820	
7/16/2013	800	
1/14/2014	780	
7/8/2014	840	
1/27/2015	860	
2/19/2015	840 (R)	
7/14/2015	840	
1/25/2016	820	
7/20/2016	880	
1/25/2017	780	
8/1/2017	750	
1/22/2018	730	
7/26/2018	800	
1/22/2019	800	
7/23/2019	780	
1/8/2020	740	
7/16/2020	800	
1/20/2021	700	
7/14/2021	780	
1/18/2022	760	
7/12/2022	700	
2/1/2023	740	
8/15/2023	720	
1/30/2024	700	
7/10/2024	690	
8/4/2025		720

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 33 background values. Report alpha = 0.02941. Most recent point compared to limit. Seasonality was not detected with 95% confidence.

Constituent: Total Dissolved Solids [TDS] Analysis Run 9/19/2025 6:06 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/l) Analysis Run 9/19/2025 6:09 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BH-25	BH-25
10/22/2015	750	
12/8/2015	750	
1/25/2016	770	
3/15/2016	740	
5/10/2016	740	
6/27/2016	780	
8/8/2016	790	
9/28/2016	790	
11/17/2016	760	
1/25/2017	780	
5/1/2017	780	
8/2/2017	760	
10/3/2017	860	
11/20/2017	780	
1/22/2018	740	
3/12/2018	770	
7/26/2018	800	
1/22/2019	600	
7/23/2019	800	
1/9/2020	780	
7/15/2020	880	
8/31/2020	880 (R)	
1/20/2021	860	
7/14/2021	980	
8/18/2021	950 (R)	
1/18/2022	960	
2/14/2022	950 (R)	
7/12/2022	960	
1/26/2023	1000	
4/3/2023	1100	
8/31/2023	1000	
1/30/2024	1000	
7/10/2024	1000	
8/5/2025		1000

Appendix L – Third Quarter 2025 Statistical Analysis Summary

Prediction Limit

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics Printed 10/24/2025, 1:29 PM

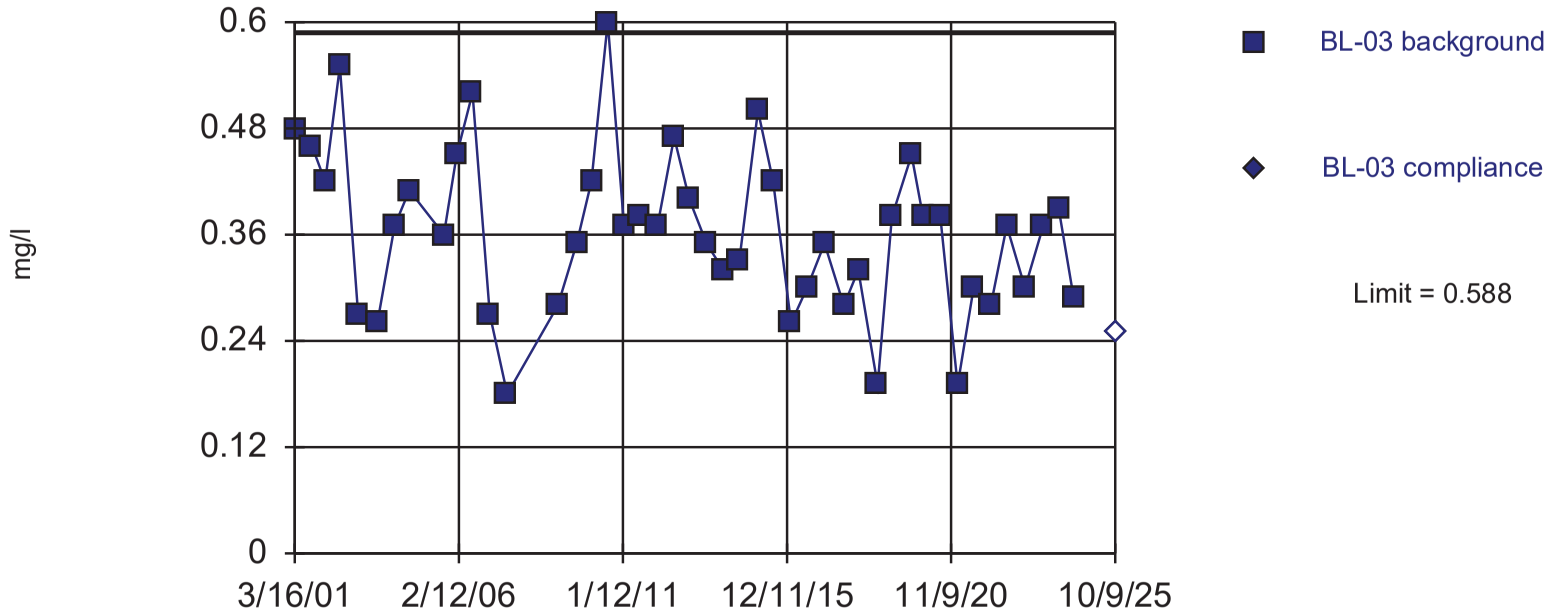
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Potassium [K] (mg/l)	BL-03	0.588	n/a	10/9/2025	0.25ND	No	45	0	No	0.01	Param Intra
Sulfate [SO4] (mg/l)	BD-04	22.0	n/a	10/7/2025	22	No	38	0	n/a	0.02564	NP Intra (normality)

Sanitas™ v.10.1.02 Software licensed to Riverside County - Waste Management. CA
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.3631, Std. Dev.=0.09229, n=45. Seasonality was not detected with 95% confidence. Normality test: Shapiro Wilk @alpha = 0.05, calculated = 0.9784, critical = 0.945. Report alpha = 0.01. Most recent point compared to limit.

Constituent: Potassium [K] Analysis Run 10/24/2025 1:28 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Potassium [K] (mg/l) Analysis Run 10/24/2025 1:29 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

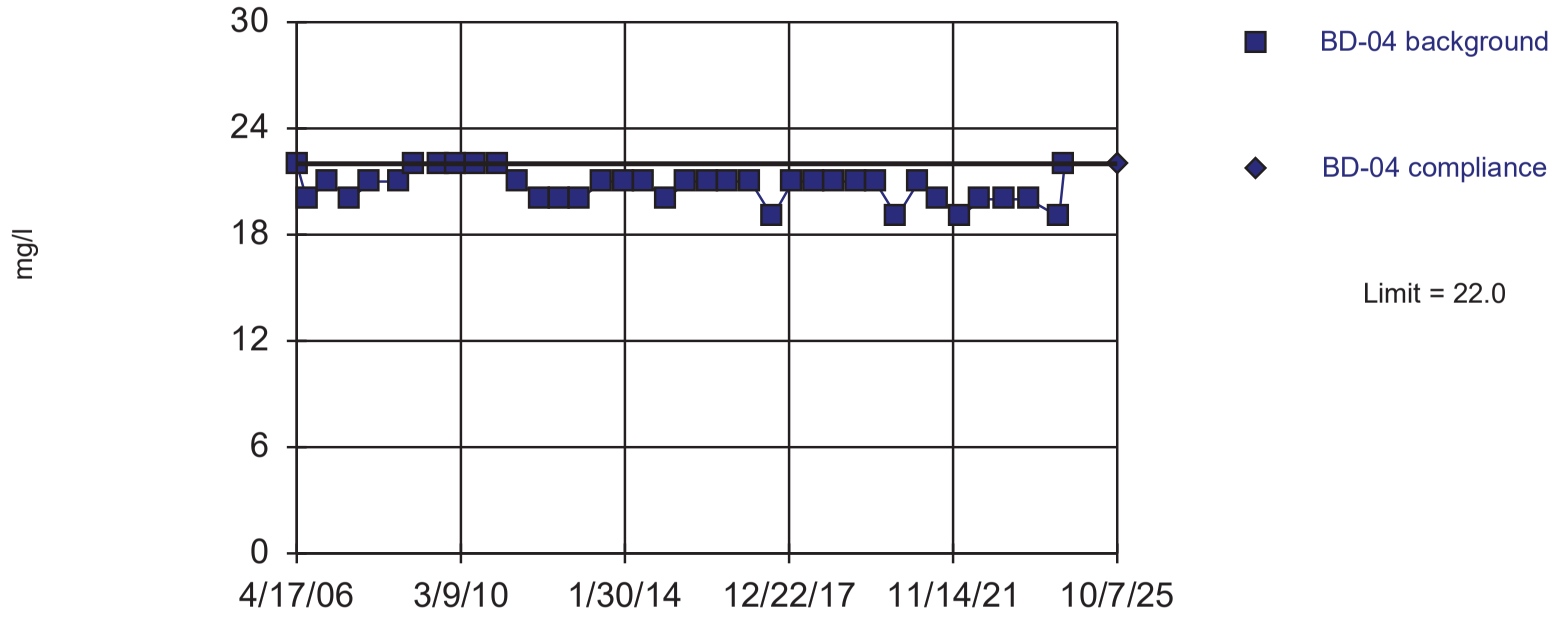
	BL-03	BL-03
3/16/2001	0.48 (J)	
9/21/2001	0.46 (J)	
2/11/2002	0.42 (J)	
7/23/2002	0.55 (J)	
2/6/2003	0.27 (J)	
9/4/2003	0.26 (J)	
3/11/2004	0.37 (J)	
8/19/2004	0.41 (J)	
9/2/2005	0.36 (J)	
1/20/2006	0.45 (J)	
7/12/2006	0.52 (J)	
1/17/2007	0.27 (J)	
7/26/2007	0.18 (J)	
1/29/2009	0.28 (J)	
8/25/2009	0.35 (J)	
2/1/2010	0.42 (J)	
7/29/2010	0.6 (J)	
1/25/2011	0.37 (J)	
7/25/2011	0.38 (J)	
1/25/2012	0.37 (J)	
7/25/2012	0.47 (J)	
1/8/2013	0.4 (J)	
7/16/2013	0.35 (J)	
1/14/2014	0.32 (J)	
7/8/2014	0.33 (J)	
1/28/2015	0.5 (J)	
7/14/2015	0.42 (J)	
1/25/2016	0.26 (J)	
7/19/2016	0.3 (J)	
1/25/2017	0.35 (J)	
8/24/2017	0.28 (J)	
1/30/2018	0.32 (J)	
8/29/2018	0.19 (J)	
1/31/2019	0.38 (J)	
9/4/2019	0.45 (J)	
1/8/2020	0.38 (J)	
7/15/2020	0.38 (J)	
1/20/2021	0.19 (J)	
7/14/2021	0.3 (J)	
1/18/2022	0.28 (J)	
7/12/2022	0.37 (J)	
1/26/2023	0.3 (J)	
8/15/2023	0.37 (J)	
1/30/2024	0.39 (J)	
7/10/2024	0.29 (J)	
10/9/2025		<0.5

ND substitution: RL or RL/2 if <15% NDs.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.05 alpha level. Limit is highest of 38 background values. Report alpha = 0.02564. Most recent point compared to limit. Insufficient data to test for seasonality: data were not deseasonalized.

Constituent: Sulfate [SO4] Analysis Run 10/24/2025 1:28 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

Prediction Limit

Constituent: Sulfate [SO4] (mg/l) Analysis Run 10/24/2025 1:29 PM

Badlands LF Client: Riverside County Data: SAR - Badlands Inorganics

	BD-04	BD-04
4/17/2006	22	
7/12/2006	20	
1/17/2007	21	
7/25/2007	20	
1/16/2008	21	
9/30/2008	21	
1/29/2009	22	
8/25/2009	22	
2/1/2010	22	
7/29/2010	22	
1/25/2011	22	
7/25/2011	21	
1/25/2012	20	
7/25/2012	20	
1/8/2013	20	
7/16/2013	21	
1/14/2014	21 (J)	
7/8/2014	21	
1/27/2015	20	
7/14/2015	21	
1/25/2016	21	
7/19/2016	21	
1/25/2017	21	
8/1/2017	19	
1/23/2018	21	
7/26/2018	21	
1/22/2019	21	
7/23/2019	21	
1/8/2020	21	
7/16/2020	19	
1/20/2021	21	
7/14/2021	20	
1/18/2022	19	
7/12/2022	20	
1/26/2023	20	
8/31/2023	20	
5/22/2024	19	
7/10/2024	22	
10/7/2025		22

Appendix M – Weekly Leachate and Gas Condensate Containment Structure Inspection

Timestamp	Comments	P1 LCRS Air Pressure (PSI)	P2S1 LCRS Air Pressure (PSI)	P2S1 LCRS Cycling?	P1 LCRS Flow	P1 LCRS Level (Feet)	P1 Tank Farm Secondary	P1 Tank #1 Leachate (ft-in)	P1 Tank #2 Gas CND (ft-in)	P2S1 Tank #6 (10,0000 Gallon) Leachate (ft-in)	P2S1 Tank #5 (1,000 Gallon) Leachate (ft-in)	[P1]	[P2]
5/29/2025 9:16	4/8/2025							1ft 11in	0ft 8in			No Defects	
4/18/2025 14:09	4/18/2025							1ft 4in	5.11	3ft	7in	No Defects	No Defects
4/22/2025 11:41	4/22/2025							0ft 10.5in	0 ft 9.5in	1ft 7in	0' .6"	No Defects	No Defects
4/28/2025 15:59	4/28/2025							3ft 1in	6ft 10in	9ft 10in	0ft 8in	No Defects	No Defects
5/7/2025 23:14	5/5/2025							0ft 10in	5ft 10in	15ft 6in	0ft 8in	No Defects, Rain in Secondary?	No Defects
5/9/2025 15:10	5/9/2025							1ft 6in	2ft 3in	4ft 2in	8in	No Defects	No Defects
5/12/2025 13:27	5/12/2025							1ft 6.5in	6ft 5in	3ft 6in	0ft 10in	No Defects	No Defects
5/28/2025 10:20	5/19/2025							1ft 6.5in	8ft 9in	3ft 6in	0ft 11in	No Defects	No Defects
5/28/2025 10:23	5/27/2025							1ft 6.5in	10ft 4in	3ft 6in	0ft 11in	No Defects	No Defects
6/5/2025 7:49	6/2/2025							1ft 6.5in	2ft 9in	2ft 6in	0ft 11in	No Defects	No Defects
6/4/2025 14:42	6/4/2025							5in	3ft 8in	3ft 9in	1ft	No Defects	No Defects
6/10/2025 10:17	6/9/2025	85	90	Yes	Yes	N/M	Empty	3ft 11in	6ft 0in	4ft 5in	0ft 11in	No Defects	No Defects
6/16/2025 12:04	6/16/2025	85	95	No	Screen not Working	Screen Not Working	Empty	6ft 9in	6ft 3in	5ft 8in	0ft 11in	No Defects	No Defects
6/23/2025 11:51	6/23/2025	85	94	No	Yes	Screen Not Working	Empty	6ft 9in	5ft 4in	8ft 0in	0ft 11in	No Defects	No Defects
8/11/2025 14:20	6/30?	85	95	Yes	Yes	Working	Empty	0ft 10in	2ft 10in	2ft 10in	0ft 10in	No Defects	No Defects
8/13/2025 21:02	7/7/2025	85	95 psi	No	Screen not Working	Screen Not Working	Empty	2ft 2in	5ft 0in	2ft 6in	0ft 11in	No Defects	No Defects
7/9/2025 8:58		85	95	Yes	Screen not Working	Screen Not Working	Empty	10in	0.5in	3ft 5in	1ft	No Defects	No Defects
8/13/2025 21:11	7/14/2025	85	95	Yes	Yes	Working	Empty	2ft 1in	5ft 9in	4ft 3in	0ft 11in	No Defects	No Defects
8/13/2025 21:58	7/21/2025	85	95	No	No	System Disabled	Empty	2ft 7in	5ft 3in	1ft 7in	11	No Defects	No Defects
8/13/2025 22:07	7/28/2025	85	95	Yes	Screen not Working	Screen Not Working	Empty	2ft 7in	6ft 10in	2ft 6in	0ft 11in	No Defects	No Defects
8/1/2025 12:44		82	90	Yes	Screen not Working	Screen Not Working	Empty	2.7	3	3	1	No Defects	No Defects
8/8/2025 12:43		82	90		Screen not Working	Screen Not Working	Empty	2.7	3.5	3.5	1	No Defects	No Defects
8/15/2025 15:43							Empty	3	1.9		1	No Defects	No Defects
8/18/2025 15:23		85	95	No	Yes	Working	Empty	4ft 3in	5ft 4in	2ft 7in	0ft 11in	No Defects	No Defects
8/21/2025 13:55		85	95	Yes	Yes	Screen Not Working	Empty	5.6	2	2.75	1	No Defects	No Defects
8/22/2025 14:48		82	90	No	Screen not Working	Screen Not Working	Empty	5ft 12in	3	3ft 5in	1	No Defects	No Defects
8/25/2025 14:02		95	94 psi	No	Yes	Screen working, batteries changed	Empty	5 ft 11 in	5 ft 10 in	3ft 0in	0ft 11in	No Defects	No Defects
8/27/2025 9:25		82	90		Screen not Working	Screen Not Working	Empty	6ft 8in	8ft	4	1	No Defects	No Defects
9/8/2025 15:25		85	95	No	Yes	Batteries changed	Empty	1ft 0in	5ft 6in	4ft 1in	0ft 11in	No Defects	No Defects
9/15/2025 15:29		85	95	No	Yes	Working	Empty	1ft 0.5in	4ft 6in	4ft 9in	0ft 11in	No Defects	No Defects
9/18/2025 14:33		82	94	Yes	Screen not Working	Screen Not Working	Empty	1	2	5	1	No Defects	No Defects
9/22/2025 13:31		85	95	Yes	Screen not Working	Screen Not Working	Empty	1ft 0in	7ft 1in	5ft 0in	0ft 11in	No Defects	No Defects

Appendix N – SCAQMD Rule 1150.1. Quarterly Perimeter Probe Field Logs

Badlands Sanitary Landfill
June 2025 Perimeter Probe Monitoring

				Pressure Reading	Methane	Carbon Dioxide	Oxygen	Balance	Hydrogen Sulfide	Carbon Monoxide	Barometric Pressure
				in H2O	%	%	%	%	ppm	ppm	in Hg
Probe ID	Depth (Ft)	Date/Time	Tech								
BLPP002A	21	6/18/25 11:57 AM	Ayad	0.04	0	4	16.3	79.7	1	6	27.35
BLPP002B	70	6/18/25 11:59 AM	Ayad	0	0	1.8	16.4	81.8	1	17	27.39
BLPP002C	120	6/18/25 12:00 PM	Ayad	0.08	0	0.8	17	82.2	1	25	27.39
BLPP002D	180	6/18/25 12:02 PM	Ayad	0.51	0	0.2	14.4	85.4	1	16	27.39
BLPP003A	21	6/18/25 12:05 PM	Ayad	0	0	1	18.3	80.7	0	16	27.26
BLPP003B	72	6/18/25 12:06 PM	Ayad	-0.79	0	0.1	19.7	80.2	0	15	27.38
BLPP003C	122	6/18/25 12:08 PM	Ayad	0.24	7.3	0.7	14.1	77.9	0	17	27.37
BLPP003C	122	6/23/25 8:05 AM	Crews	-0.28	0	0.1	21.2	78.7	0	1	27.42
BLPP003D	183	6/18/25 12:10 PM	Ayad	1.01	1.1	0.1	16.4	82.4	1	17	27.39
BLPP004A	21	6/18/25 12:13 PM	Ayad	-0.06	0	1.6	18	80.4	1	17	27.21
BLPP004B	70	6/18/25 12:15 PM	Ayad	-0.05	0	2	17.1	80.9	1	17	27.43
BLPP004C	120	6/18/25 12:16 PM	Ayad	0.11	0	0.6	17.1	82.3	1	23	27.43
BLPP004D	180	6/18/25 12:17 PM	Ayad	0.62	0	0.6	17.1	82.3	0	31	27.43
BLPP005A	19	6/18/25 3:04 PM	Ayad	0.04	0	0.5	20.3	79.2	1	11	27.39
BLPP005B	32	6/18/25 3:05 PM	Ayad	0.17	0	0.1	21	78.9	0	11	27.41
BLPP005C	40	6/18/25 3:07 PM	Ayad	0.15	0	0.1	20.8	79.1	0	12	27.41
BLPP005D	78	6/18/25 3:09 PM	Ayad	-0.09	0	0.6	20.3	79.1	1	12	27.41
BLPP006A	9	6/19/25 11:27 AM	Crews	0.01	0	0.9	18.8	80.3	1	26	27.51
BLPP006B	25	6/19/25 11:28 AM	Crews	0.02	0	1.6	17.8	80.6	1	26	27.52
BLPP006C	68	6/19/25 11:29 AM	Crews	0.01	0	3.5	12.1	84.4	1	26	27.51
BLPP006D	74	6/19/25 11:31 AM	Crews	0.01	0	0	20	80	0	26	27.52
BLPP007A	11	6/19/25 11:12 AM	Crews	-0.04	15.2	16.1	0	68.7	1	32	27.53
BLPP007A	11	6/23/25 7:19 AM	Crews	0.02	0.3	2.4	17.8	79.5	0	1	27.57
BLPP007B	50	6/19/25 11:16 AM	Crews	0.01	16.6	12	2.6	68.8	1	32	27.48
BLPP007B	50	6/23/25 7:24 AM	Crews	-0.02	0	7.9	16.7	75.4	0	1	27.58
BLPP007C	90	6/19/25 11:18 AM	Crews	0.02	0	0.6	18.6	80.8	0	25	27.53
BLPP007D	135	6/19/25 11:19 AM	Crews	0.01	0.8	1.5	16.1	81.6	1	31	27.54
BLPP008A	15	6/19/25 11:02 AM	Crews	0.26	0	1.7	15.8	82.5	1	19	27.62
BLPP008B	56	6/19/25 11:03 AM	Crews	-0.01	0	5	6.6	88.4	1	21	27.63
BLPP008C	90	6/19/25 11:05 AM	Crews	0.01	0	1.1	9.3	89.6	1	21	27.64
BLPP008D	135	6/19/25 11:06 AM	Crews	0.21	0	0.5	17.2	82.3	1	24	27.63
BLPP009A	15	6/19/25 10:56 AM	Crews	-0.01	0	1.9	18.5	79.6	1	17	27.68
BLPP014A	21	6/18/25 11:41 AM	Ayad	0.01	4.4	7.5	0	88.1	0	15	27.35
BLPP014B	95	6/18/25 11:43 AM	Ayad	0.4	3.7	4.5	0	91.8	0	13	27.37
BLPP014C	170	4/2/25 8:04 AM	Ayad	3.68	16.2	1.5	9.1	73.2	0	1	27.24
BLPP014C	170	4/4/25 2:20 PM	Ayad	0.18	16	1	8.6	74.4	0	53	27.5
BLPP014C	170	6/18/25 11:44 AM	Ayad	1.27	17.4	1.4	7.9	73.3	1	14	27.37
BLPP014C	170	6/23/25 7:39 AM	Crews	-0.01	17.7	1.1	6.8	74.4	0	1	27.42
BLPP014D	265	4/2/25 8:12 AM	Ayad	4.89	19.6	0.8	14.6	65	0	16	27.26
BLPP014D	265	4/4/25 2:22 PM	Ayad	1.32	22.1	0.4	10.7	66.8	0	53	27.51
BLPP014D	265	6/18/25 11:46 AM	Ayad	2.36	15.4	0.6	14.2	69.8	0	28	27.37
BLPP014D	265	6/23/25 7:42 AM	Crews	1.13	17	0.5	10.7	71.8	0	14	27.42
BLPP015A	10	6/18/25 11:49 AM	Ayad	-0.09	0.2	2.8	11.1	85.9	1	17	27.36
BLPP015B	40	6/18/25 11:51 AM	Ayad	0	0.1	2.8	14	83.1	0	26	27.35
BLPP015C	85	6/18/25 11:52 AM	Ayad	0.33	0.6	1.3	15	83.1	0	72	27.35
BLPP015D	125	6/18/25 11:54 AM	Ayad	0.52	0	0.4	13.9	85.7	0	95	27.36

				Pressure Reading	Methane	Carbon Dioxide	Oxygen	Balance	Hydrogen Sulfide	Carbon Monoxide	Barometric Pressure
				in H2O	%	%	%	%	ppm	ppm	in Hg
Probe ID	Depth (Ft)	Date/Time	Tech								
BLPP016A	10	6/18/25 11:33 AM	Ayad	0.09	0	0.6	17.7	81.7	1	21	27.38
BLPP016B	55	6/18/25 11:34 AM	Ayad	0.11	0	0.7	18.4	80.9	1	29	27.39
BLPP016C	110	6/18/25 11:35 AM	Ayad	0.52	0	0.2	14.7	85.1	1	63	27.39
BLPP016D	160	6/18/25 11:37 AM	Ayad	0.51	0	0.2	15.9	83.9	1	114	27.4
BLPP017A	10	6/18/25 11:27 AM	Ayad	0.06	0	5.7	15.4	78.9	1	9	27.43
BLPP017B	50	6/18/25 11:28 AM	Ayad	0.02	0	3.5	17.9	78.6	1	21	27.45
BLPP017C	100	6/18/25 11:29 AM	Ayad	0.35	0	0.3	17.2	82.5	1	58	27.45
BLPP017D	150	6/18/25 11:31 AM	Ayad	0.56	0	0.4	16.7	82.9	1	103	27.44
BLPP018A	10	6/19/25 10:43 AM	Crews	0.04	0	0.8	18.8	80.4	1	17	27.66
BLPP019A	10	6/19/25 9:48 AM	Crews	0.01	0	0.6	19.4	80	1	16	27.7
BLPP020A	10	6/19/25 9:58 AM	Crews	0.03	0	0.6	19.2	80.2	1	22	27.69
BLPP021A	10	6/19/25 9:12 AM	Crews	0.03	0	0.5	19.6	79.9	1	11	27.71

Badlands Sanitary Landfill
September 2025 Perimeter Probe Monitoring

				Pressure Reading	Methane	Carbon Dioxide	Oxygen	Balance	Hydrogen Sulfide	Carbon Monoxide	Barometric Pressure
				in H2O	%	%	%	%	ppm	ppm	in Hg
Probe ID	Depth (Ft)	Date/Time	Tech								
BLPP002A	21	9/16/25 8:43 AM	Ayad	0	0	3.5	15	81.5	0	4	27.52
BLPP002B	70	9/16/25 8:45 AM	Ayad	-0.05	0	1.6	16.9	81.5	0	3	27.54
BLPP002C	120	9/16/25 8:46 AM	Ayad	-0.12	0	0.8	17	82.2	0	11	27.54
BLPP002D	180	9/16/25 8:48 AM	Ayad	-0.6	0	0.3	17.9	81.8	0	4	27.54
BLPP003A	21	9/16/25 8:34 AM	Ayad	-0.05	0	0.8	18.8	80.4	0	3	27.51
BLPP003B	72	9/16/25 8:36 AM	Ayad	-1.52	0	0.1	19.6	80.3	0	3	27.51
BLPP003C	122	9/16/25 8:38 AM	Ayad	-0.88	0	0.1	19.3	80.6	0	3	27.51
BLPP003D	183	9/16/25 8:40 AM	Ayad	-0.6	1.4	0.1	15.9	82.6	0	4	27.51
BLPP004A	21	9/16/25 8:26 AM	Ayad	-0.05	0	2	18.4	79.6	0	2	27.58
BLPP004B	70	9/16/25 8:27 AM	Ayad	-0.1	0	2.3	17.4	80.3	0	3	27.54
BLPP004C	120	9/16/25 8:29 AM	Ayad	-0.44	0	0.7	17.6	81.7	0	5	27.56
BLPP004D	180	9/16/25 8:31 AM	Ayad	-0.65	0	0.6	17.6	81.8	0	11	27.56
BLPP005A	19	9/16/25 8:18 AM	Ayad	-0.1	0	0.5	19.8	79.7	0	1	27.63
BLPP005B	32	9/16/25 8:19 AM	Ayad	-1.17	0	0.1	20.2	79.7	0	1	27.56
BLPP005C	40	9/16/25 8:20 AM	Ayad	-0.93	0	0.1	20.1	79.8	0	1	27.57
BLPP005D	78	9/16/25 8:22 AM	Ayad	-1.56	0	0.2	20	79.8	0	2	27.57
BLPP006A	9	9/16/25 8:10 AM	Ayad	0.05	0	1.4	19.6	79	0	0	27.61
BLPP006B	25	9/16/25 8:11 AM	Ayad	0.01	0	0.1	20.5	79.4	0	0	27.63
BLPP006C	68	9/16/25 8:13 AM	Ayad	-0.01	0	0.1	20.6	79.3	0	0	27.63
BLPP006D	74	9/16/25 8:14 AM	Ayad	-0.02	0	0.1	20.5	79.4	0	0	27.63
BLPP007A	11	9/16/25 10:03 AM	Ayad	-0.04	0	0.6	19.4	80	1	14	27.95
BLPP007B	50	9/16/25 10:04 AM	Ayad	-0.08	0	0.7	19.4	79.9	0	15	27.72
BLPP007C	90	9/16/25 10:06 AM	Ayad	-0.21	0	0.2	19.6	80.2	0	14	27.72
BLPP007D	135	9/16/25 10:07 AM	Ayad	-0.26	0.6	1.1	17.8	80.5	0	19	27.71
BLPP008A	15	9/16/25 9:49 AM	Ayad	0.01	0	1.7	17.8	80.5	0	15	27.82
BLPP008B	56	9/16/25 9:51 AM	Ayad	-0.02	0	2.2	16.5	81.3	0	15	27.82
BLPP008C	90	9/16/25 9:52 AM	Ayad	-0.17	0	0.1	20.2	79.7	0	15	27.82
BLPP008D	135	9/16/25 9:54 AM	Ayad	-0.61	0	0.4	18.8	80.8	0	16	27.81
BLPP009A	15	9/16/25 9:58 AM	Ayad	0.01	0	1.3	19.1	79.6	0	15	27.81
BLPP014A	21	8/19/25 11:20 AM	Crews	-0.15	0.4	8.3	8.8	82.5	1	3	27.43
BLPP014A	21	9/16/25 9:04 AM	Ayad	-0.22	1.5	6.1	6.4	86	0	10	27.51
BLPP014B	95	8/19/25 11:24 AM	Crews	-0.59	4	4.2	0	91.8	1	5	27.53
BLPP014B	95	9/16/25 9:07 AM	Ayad	-0.69	4	4.1	0.8	91.1	0	8	27.54
BLPP014C	170	8/19/25 11:28 AM	Crews	-0.43	18.3	1.6	6.2	73.9	0	6	27.54
BLPP014C	170	9/16/25 9:08 AM	Ayad	-0.3	18.3	1.8	5.1	74.8	0	9	27.54
BLPP014D	265	8/19/25 11:32 AM	Crews	0.24	8.4	0.4	11.1	80.1	0	18	27.54
BLPP014D	265	9/16/25 9:10 AM	Ayad	0.69	9.4	0.4	13.6	76.6	0	20	27.54
BLPP015A	10	9/16/25 8:55 AM	Ayad	-0.07	0	2.1	15.3	82.6	0	8	27.52
BLPP015B	40	9/16/25 8:56 AM	Ayad	-0.28	0.2	2.7	10.4	86.7	0	16	27.52
BLPP015C	85	9/16/25 8:58 AM	Ayad	-0.48	0.3	1.2	13.9	84.6	0	52	27.52
BLPP015D	125	9/16/25 9:00 AM	Ayad	-0.74	0	0.3	13.6	86.1	0	83	27.52
BLPP016A	10	9/16/25 9:16 AM	Ayad	-1.48	0	0.5	18.6	80.9	0	20	27.59
BLPP016B	55	9/16/25 9:18 AM	Ayad	-0.25	0	0.5	17.3	82.2	0	27	27.58
BLPP016C	110	9/16/25 9:20 AM	Ayad	-0.93	0	0.1	15.4	84.5	0	36	27.58
BLPP016D	160	9/16/25 9:22 AM	Ayad	-0.98	0	0.2	17.7	82.1	1	99	27.89
BLPP017A	10	9/16/25 9:25 AM	Ayad	-0.08	0	4.8	14.3	80.9	0	18	27.58

				Pressure Reading	Methane	Carbon Dioxide	Oxygen	Balance	Hydrogen Sulfide	Carbon Monoxide	Barometric Pressure
				in H2O	%	%	%	%	ppm	ppm	in Hg
Probe ID	Depth (Ft)	Date/Time	Tech								
BLPP017B	50	9/16/25 9:27 AM	Ayad	-0.13	0	2.8	16.4	80.8	0	28	27.65
BLPP017C	100	9/16/25 9:28 AM	Ayad	-1.2	0	0.2	17.2	82.6	0	45	27.65
BLPP017D	150	9/16/25 9:30 AM	Ayad	-1.16	0	0.3	17.7	82	1	84	27.65
BLPP018A	10	9/16/25 9:39 AM	Ayad	-0.01	0	1.2	18.3	80.5	0	18	27.85
BLPP019A	10	9/17/25 10:20 AM	Ayad	0.01	0	0.6	18.5	80.9	0	27	27.83
BLPP020A	10	9/17/25 10:05 AM	Ayad	0.1	0	0.8	18.8	80.4	0	18	27.79
BLPP021A	10	9/17/25 9:20 AM	Ayad	0	0	0.4	19.4	80.2	0	39	27.83

Appendix A

A-2 Groundwater Well Boring Logs

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 1 of 10

Boring Location:	North west of landfill, top of hill	Elevation and Datum:	2400.0
Drilling Contractor:	Datum	Driller: J. Keesley	Date Started: 2/21/89 / Date Finished: 4/10/89
Drilling Equipment:	Speedstar 16	Borehole Diameter: 10."	Completed Depth: (feet) 398.5 / Water Depth: (feet) 378.0
Sampling Method: California Modified ☒ Shelby Tube ☐ Split Spoon ☐			WELL CONSTRUCTION
Drilling Fluid:	none	Type and Diameter of Well Casing:	4.5in. SCH80 PVC
Backfill Material:	Concrete and Bentonite	Slot Size: 0.02"	Filter Material: #3 Monterey Sand
Logged By: S. Brooks	Checked By: Marc Egli	Development Method:	Bail and Surge

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID Readings PPM	Remarks
	ML	SAN TIMOTEO FORMATION: (0-398.5ft.)							
5		Siltstone, grey to brown, dry, medium dense.	12 18 21					0	
10	SM	Sandstone, light brown, dry, very dense, decreasing in silt.	18 23 30					0	
15			30 50 for 2					0	
20	ML	Siltstone, brown, dry, very dense, trace fine - grained sand.	45 35 22					0	
25									
30	SM	Sandstone, light brown, dry, dense, trace coarse gravel.	35 50 for					0	

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 2 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA PPM Readings	Remarks
35									
40		Sandstone, brown, moist, very dense, increasing in silt.	37 50 for 5.6					20	
45									
50			50 for 5					100	Refusal on bedrock at 49.0 feet
55									
60		Sandstone, dry, trace silt.							
65									
70									

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 3 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA Readings PPM	Remarks
80									
85									
90		Sandstone, brown, dry, increasing in silt.							
95									
100	ML	Siltstone, brown, dry.							
105									
110									
115									

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 4 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA Readings PPM	Remarks
20		Siltstone, becoming slightly moist							
25									
30									
35									
40									
45									
50									
55									

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 5 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA PPM Readings	Remarks
		Siltstone							
180	SM	Silty sandstone, dry, light brown, fine - to coarse - grained.							Resume drilling, B.Wilson logging boring.
		increase in grain size							
190	ML	Siltstone, increase in silt, decrease in coarse sand, color change to reddish brown, dry.							
195		trace clay, trace gypsum, increase in silt							
200		increase in grain size, light brown, decrease in silt							

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 6 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA Readings PPM	Remarks
205									
210		Siltstone, reddish brown, dry, very fine - grained sand.							
215									
220									
225	SM	Sandstone, light brown, dry, fine - to coarse - grained, predominantly quartz sand.							harder drilling through sandstone
230									
235	ML	Siltstone, reddish brown, dry, very fine - to fine - grained sand.							
		deeper red color, minor medium - grained sand							
240									
	SM	Sandstone, light brown, dry, fine - to coarse - grained.							

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 7 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA PPM Readings	Remarks
		Sandstone							
250									
255									
260									
265									
270		increase in quartz sand							
275									
280									
285		Sandstone, light brown, dry.							

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 8 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA PPM Readings	Remarks
290		Sandstone							
295									
300									total depth at 12:00 pm 300ft 4-7-89
305									
310									
315	ML	Siltstone, reddish brown, dry, trace medium size quartz grains.							
320									
325		Siltstone, light brown, dry, very fine-to fine - grained sand.							

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 9 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA Readings PPM	Remarks
		Siltstone, trace medium grained quartz.							
335									
340									
345		becoming reddish brown, dry, very fine - grained, trace medium - grained sand.							
350									
355									
360		Siltstone, light brown, dry, very fine - to fine - grained sand.							
365									
370		trace medium - to coarse - grained sand							

Brown and Caldwell

BORING LOG

Project Name: Badlands SWAT Project Number: 4344-01

Soil Boring ☐ Monitoring Well ☒ Boring/Well Number: BL-3 Sheet 10 of 10

Depth (feet)	USC Soil Type	Description	Blow Counts	Sample No.	Graphic Log: Sample	Graphic Log: Lithology	Graphic Log: Well	PID/FID OVA Readings PPM	Remarks
375		Siltstone							Encountered ground water at 378 ft. during drilling.
380									
385									
390	SM	Sandstone, light brown, dry, fine - to very fine - grained.							
395									
400		**Bottom of boring 398.5 feet. Encountered groundwater at 378.0 feet.**							
405									
410									

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 - Logged by: Jason L. Holcomb Checked by: Richard F.Escandon

Equipment: 16" Dia. Air Rotary Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100 Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
0		SAN TIMOTEO FORMATION: **SILTY SAND (SM)**: fine-to medium-grained, dense, reddish brown.					2		PVC casing extends to 2' above ground surface
5									Conductor casing 12" dia.
10									Conductor boring 16" dia. to 16'
15		SAN TIMOTEO FORMATION: **GRAVELLY SAND (SW)**: poorly sorted, moderately dense, light gray to brown.					9		
20		SAN TIMOTEO FORMATION: **SILTY FINE SAND (SM)**: dense, deep red to light brown.							
25									
30		- minor gravels							

Converse Consultants
Inland Empire

Project Name.
Badlands Landfill

Project No.
93-16-141-02

Drawing No.
A-2a

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 - Logged by: Jason L. Holcomb Checked by: Richard F.Escandon

Equipment: 16" Dia. Air Rotary Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100 Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES DRIVE	SAMPLES BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
40		SAN TIMOTEO FORMATION: **SILTY SAND (SM)**: some alternating layers of silty fine sands, some gravles, light brown to deep red.	■				5		
45		SAN TIMOTEO FORMATION: **GRAVELLY SAND (SW)**: dense, 3/8-3/4" gravel clasts, light gray.							
50		SAN TIMOTEO FORMATION: **SILTY FINE SAND (SM)**: dense, reddish brown. - scattered gravles, light brown							
55									
60			■				7		
65									

Converse Consultants Inland Empire

Project Name. Badlands Landfill

Project No. 93-16-141-02

Drawing No. A-2b

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 -

Logged by: Jason L. Holcomb Checked by: Richard F. Escandon

Equipment: 16" Dia. Air Rotary

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100

Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
75		SAN TIMOTEO FORMATION: **SILTY FINE SAND (SM)**: reddish brown.							
80		- becoming light gray-brown							
85									
90									
95									
100									

Converse Consultants Inland Empire

Project Name. Badlands Landfill

Project No. 93-16-141-02

Drawing No. A-2c

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 - Logged by: Jason L. Holcomb Checked by: Richard F.Escandon

Equipment: 16" Dia. Air Rotary Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100 Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
110		SAN TIMOTEO FORMATION: **SANDSTONE/SILTY SAND (SM)**: with gravel, dense reddish brown.							
115		0 - continued same, becoming light gray.							
120		SAN TIMOTEO FORMATION: **SILTSTONE**: minor fine sand, dense, reddish brown.							
125		SAN TIMOTEO FORMATION: **SILTY FINE SAND (SM)**: with some gravels, dense, gray-brown.							
130									
135									Cement/Bentonite slurry

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 -

Logged by: Jason L. Holcomb Checked by: Richard F.Escandon

Equipment: 16" Dia. Air Rotary

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100

Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
		- same, alternating light gray-brown and reddish brown.							
145									
150									
155									
160		SAN TIMOTEO FORMATION: **SILTSTONE:** minor fine sand, dense, medium to light brown-gray.							
165									
170		SAN TIMOTEO FORMATION: **SANDSTONE:** silty, fine sand, dense, alternating light gray to reddish-brown.							

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 -

Logged by: Jason L. Holcomb Checked by: Richard F.Escandon

Equipment: 16" Dia. Air Rotary

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100

Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
180							0		
185		- minor gravles							
190									Blank casing 4" SCH - 80 PVC
195									
200									
205		- continued sand, silty fine sand, reddish brown to light gray							

Converse Consultants
Inland Empire

Project Name.
Badlands Landfill

Project No.
93-16-141-02

Drawing No.
A-2f

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 -

Logged by: Jason L. Holcomb Checked by: Richard F. Escandon

Equipment: 16" Dia. Air Rotary

Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100

Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
215		**SILTY FINE SAND (SM):** reddish-brown to light gray.					0		
220									Bentonite Seal
225									
230									Sand backfill
235									
240									Static water
		SAN TIMOTEO FORMATION:							

This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

Log of Boring No. BD- 4

Dates Drilled: 2/7/94 - Logged by: Jason L. Holcomb Checked by: Richard F.Escandon

Equipment: 16" Dia. Air Rotary Driving Weight and Drop: 140 lb / 30 in

Ground Surface Elevation(ft): 2100 Depth to Water(ft): 241 Feet

DEPTH (ft)	GRAPHIC LOG	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS/FOOT	OVA (ppm)	PID (ppm)	LABORATORY TESTS	SUMMARY OF WELL INSTALLATIONS
		SILTY SAND (SM): medium grained sand, dense, medium gray.					0		
		SILTY SAND (SM): increasing moisture content in cuttings.							
250									Screened casing (.020 slot) 4" SCH 80 PVC
255									
260									Sand backfill
265									END CAP
270									
275		End of boring at 277 feet. Boring backfilled.							Bottom of borehole

Converse Consultants Inland Empire

Project Name. Badlands Landfill

Project No. 93-16-141-02

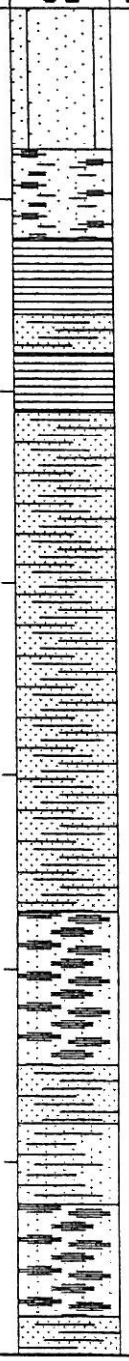
Drawing No. A-2h

Log of Boring No. BH-8

Date Drilled: 5/3/90 Logged by: RJK Checked by: GND

Equipment: 8" Hollow Stem Auger Driving Weight and Drop: Continuous Sampling

Ground Surface Elevation: 1940' Depth to Water: 45 and 67 feet



DEPTH (ft)	SAMPLES DRIVE	SAMPLES NUMBER	SUMMARY OF SUBSURFACE CONDITIONS	MOISTURE	COLOR	OVA READINGS (ppm)
			This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.			
			PAD BACKFILL **SILTY SAND with GRAVEL (SM)**	slightly moist	light brown dark brown	
10			**ALLUVIUM - GRAVELLY SAND (SW)**; fine- to coarse-grained sand, gravel to 1"	dry	gray brown	
			SAN TIMOTEO FORMATION **SILTY CLAYSTONE**; very fine- to medium-grained sand, trace coarse-grained sand secondary calcite in dendrite fractures		red brown	
20			**SANDSTONE**; fine-grained sand with trace coarse-grained sand			
			CLAYEY SANDSTONE; fine-grained sand with trace coarse-grained sand			
30			**SANDSTONE**; fine-grained sand, trace coarse-grained sand			
				moist	red gray	
40			fine-grained sand, gravel to 1", very friable sands 41 to 43', massive	very moist	gray white	
				wet		
50			**GRAVELLY SANDSTONE**; fine- to coarse-grained sand with gravel to 1", massive cobble fragments to 4"			
			SANDSTONE; fine- to medium-grained sand, trace gravel to 0.3"	very moist	red gray brown	
60			**SANDSTONE/SILTSTONE**; fine- to very coarse-grained sand, trace coarse-grained sand	slightly moist	gray brown	
			GRAVELLY SANDSTONE; fine- to coarse-grained sand, gravel to 2", massive		gray white brown	

BADLANDS SANITARY LANDFILL

Project No.
89-41-516-01

Drawing No.
A-8a

Converse Environmental West

Log of Boring No. BH-8

Date Drilled: 5/3/90 Logged by: RJK Checked by: GND

Equipment: 8" Hollow Stem Auger Driving Weight and Drop: Continuous Sampling

Ground Surface Elevation: 1940' Depth to Water: 45 and 67 feet

DEPTH (ft)	GRAPHIC LOG	SAMPLES DRIVE	SAMPLES NUMBER	SUMMARY OF SUBSURFACE CONDITIONS	MOISTURE	COLOR	OVA READINGS (ppm)
				This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.			
				SANDSTONE; fine- to medium-grained sand, calcitic cement	moist	gray brown	
				GRAVELLY SANDSTONE; fine- to coarse-grained sand, gravel to 2", cobble fragments	dry	red brown	
80				SANDSTONE; fine- to medium-grained sand, trace coarse	slightly moist		
				GRAVELLY SANDSTONE		gray brown	
90				SANDSTONE/SILTSTONE; very fine- to fine-grained sand, trace medium- to coarse-grained sand, trace clay		red brown	
				GRAVELLY SANDSTONE; fine- to coarse-grained sand, gravel to 1"		gray yellow brown	
100				SANDSTONE; very fine- to fine grained sand, trace medium-grained sand fine-grained sand very fine- to fine-grained sand, trace medium-grained sand, massive fine-grained sand, trace coarse sand			
110				GRAVELLY SANDSTONE; fine- to coarse-grained sand, gravel to 2", cobble fragments			
				SANDSTONE; very fine- to coarse-grained sand fine-grained sand, massive			
				End of boring at 110 feet			

BADLANDS SANITARY LANDFILL

Project No.
89-41-516-01

Drawing No.
A-8b

Converse Environmental West

Log of Boring No. BH-11

Date Drilled: 6/5/90 Logged by: RJK Checked by: GND

Equipment: 8" Hollow Stem Auger Driving Weight and Drop: Continuous Sampling

Ground Surface Elevation: 2071' Depth to Water: 62 feet

DEPTH (ft)	GRAPHIC LOG	SAMPLES DRIVE	SAMPLES NUMBER	SUMMARY OF SUBSURFACE CONDITIONS	MOISTURE	COLOR	OVA READINGS (ppm)
				This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.			
				PAD BACKFILL SILTY SAND (SM); trace gravel, fine- to medium-grained sand	dry	yellow brown	
10				ALLUVIUM - GRAVELLY SAND (SW); gravel t 1.5", fine- to coarse-grained sand	slightly moist	gray brown	
				SAN TIMOTEO FORMATION GRAVELLY SANDSTONE; fine-grained sand with gravel to >2"		brown	
20				SANDSTONE; fine- to medium-grained sand, trace calcitic cement		gray brown	
				GRAVELLY SANDSTONE; fine- to medium-grained sand, gravel to 2", calcitic cement		brown	
30				SILTY SANDSTONE; very fine- to fine-grained sand, trace medium- to coarse-grained sand, trace gravel calcitic cement very fine- to fine-grained sand, trace medium- to coarse-grained sand		red brown	
40				SANDSTONE		gray brown	
				SANDY SILTSTONE;		dark brown	
50				SANDSTONE; fine-grained sand, calcitic cement		gray brown	
				GRAVELLY SANDSTONE; fine- to coarse-grained sand with gravel to 1.5"		red brown	
60				SILTY SANDSTONE; very fine- to fine-grained sand, trace coarse-grained sand, calcitic cement, massive		dark brown	
				GRAVELLY SANDSTONE; fine- to coarse-grained sand with gravel to 2"	wet	gray brown	
				SILTY SANDSTONE; very fine- to fine-grained sand,	moist	brown	

BADLANDS SANITARY LANDFILL

Project No. 89-41-516-01

Drawing No. A-11a

Converse Environmental West

Log of Boring No. BH-11

Date Drilled: 6/5/90 Logged by: RJK Checked by: GND

Equipment: 8" Hollow Stem Auger Driving Weight and Drop: Continuous Sampling

Ground Surface Elevation: 2071' Depth to Water: 62 feet

DEPTH (ft)	GRAPHIC LOG	SAMPLES DRIVE	SAMPLES NUMBER	SUMMARY OF SUBSURFACE CONDITIONS	MOISTURE	COLOR	OVA READINGS (ppm)
				This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.			
				tr. grav., poorly defined bedding to calcitic cement	moist-wet	brown	
				GRAVELLY SANDSTONE; medium- to coarse-grained sand with gravel to 1" gravel to 2"		gray brown	
80					slightly moist	light brown	
				SANDSTONE; fine-grained sand with gravel to 2"			
85				End of boring at 85 feet			

BADLANDS SANITARY LANDFILL

Project No. 89-41-516-01

Converse Environmental West

Drawing No. A-11b

OJECT: Badlands

CATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-20 - REVISED

RING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

TH LE | FEET | BORING METHOD | SOIL PROFILE: DESCRIPTION | STRATA PLOT | DEPTH B.G.S. (ft) | Samples: ID, Type, Recovery (%), "N" Value | GT402 Readings: % Oxygen, H2S ppm, CO ppm (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-20

THF Drilling INC., - RT-1800 Air Rotary

50

Siltstone - with layers of thin clay - Color: tan - Moisture Content: dry

60

Siltstone with inter-bedded gravelly conglomerate some cobbles - Moisture Content: Dry

70

Siltstone with very fine grains - color: tan with a pinkish tint - Moisture Content: Dry

80

Siltstone with thin clay layers - Color: Yellowish Tan - Moisture Content: Dry

90

Siltstone with thin clay layers - Color: Yellowish Tan - Moisture Content: Dry

Continued on next page

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-20 - REVISED

BORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

THF Drilling: Driller Ramon

BH-20

METRES	FEET	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Samples: ID	Type	Recovery (%)	"N" Value	GT402 Readings: % Oxygen ◆, H2S ppm ●, CO ppm ■ (0 20 40 60 80 100)
	100	THF Drilling INC.,- RT-1800 Air Rotary								
31	102				100					
	104		Siltstone with thin clay layers - Color: yellow tint but tan - Moisture Content: Dry							
32	106									
	108									
33	110				110					
	112									
34	114		Siltstone with thin conglomerate layer - Color: Grayish Tan - Moisture Content: Dry							
35	116									
	118									
	120				120					
37	122									
	124		Siltstone with thin conglomerate layer							
38	126									
39	128									
	130				130					
40	132									
	134		Siltstone with thin clay layer - Color: light orange hue							
41	136									
42	138									
	140				140					
43	142									
	144		Siltstone with fine sand - Color: Grayish							
	146									
45	148									
	150									

Continued on next page

ROJECT: Badlands

Groundwater Monitoring Well BH-20 - REVISED

OCATION: 31125 Ironwood Ave

ORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

TH ALE | BORING METHOD | SOIL PROFILE: DESCRIPTION | STRATA PLOT | DEPTH B.G.S. (ft) | Samples: ID, Type, Recovery (%), "N" Value | GT402 Readings: % Oxygen, H2S ppm, CO ppm, 0 20 40 60 80 100 | THF Drilling: Driller Ramon

FEET

BH-20

THF Drilling INC.,- RT-1800 Air Rotary

150 — Siltstone with thin clay layers - Color: Orangey Tan

160 — Siltstone with layers of clay - Color: Orangey Tan

170 — Sandy Siltstone - Color: Light Tan

180 — Siltstone with thin layers of clay - Color: Tan

190 — Siltstone with sandy clay layers - Color: tan

200

Continued on next page

GROUT 0.00ft TO 398.00ft

PROJECT: Badlands

Groundwater Monitoring Well BH-20 - REVISED

LOCATION: 31125 Ironwood Ave

BORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

BORING METHOD: THF Drilling INC., - RT-1800 Air Rotary

THF Drilling: Driller Ramon

METRES	FEET	DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Samples: ID	Samples: Type	Samples: Recovery (%)	Samples: "N" Value
61	200			200				
	202							
62	204	Clayey siltstone - Color: Orangey Tan - Mositure Content: Slightly moist						
	206							
63	208							
64	210			210				
	212							
65	214	Siltstone - Color: Light Tan						
	216							
66	218							
	220			220				
68	222							
	224	Siltstone with thin clay layers - Color: Organey light tan						
69	226							
	228							
70	230			230				
	232							
71	234	Conglomerate, fine to medium sand matrix with gravel to cobbles - Color: Gray						
72	236							
	238							
73	240			240				
	242							
74	244	Siltstone with clay layers - Color: Orangey tan - Moisture Content: Sightly moist						
75	246							
	248							
76	250							

GT402 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

BH-20

Continued on next page

OJECT: Badlands

CATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-20 - REVISED

RING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

THF Drilling: Driller Ramon

BH-20

H LE	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Samples: ID	Type	Recovery (%)	"N" Value	GT402 Readings: % Oxygen, H2S ppm, CO ppm (0 20 40 60 80 100)
FEET									
250				250					
252									
254		Clayey Siltstone - Color: Light Brown							
256									
258									
260				260					
262									
264		Light brown clayey siltstone with orange hue							
266									
268	THF Drilling INC.,- RT-1800 Air Rotary								
270				270					
272									
274		Silty sandstone with fine grains - Color: light gray - Moisture Content: dry							
276									
278									
280				280					
282									
284		Siltstone with thin layers of clay - Color: tan with orange hue							
286		Comment: Can see geology of well by walking south along access road looking at cut with north dipping beds.							
288									
290				290					
292									
294		Clayey siltstone - Color: Tan - Moisture Content: Slightly moist							
296									
298									
300									

Continued on next page

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-20 - REVISED

BORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

BORING METHOD: THF Drilling INC.,- RT-1800 Air Rotary

THF Drilling: Driller Ramon

BH-20

METRES	FEET	DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	ID	Type	Recovery (%)	"N" Value
	300			300				
92	302							
	304	Sandstone with gravel						
93	306							
	308							
94	310			310				
95	312							
	314	Siltstone - Color: Tan						
96	316							
	318							
	320			320				
98	322							
	324	Siltstone - Color: Orangey tan						
99	326							
100	328							
	330			330				
101	332							
	334	Gravelly sand - Color: Light gray						
102	336							
103	338							
	340			340				
104	342							
10	14	Siltstone - Color: Tan						
	346							
106	348							
	350							

GT402 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

Continued on next page

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-20 - REVISED

BORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

THF Drilling: Driller Ramon

BH-20

DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Samples ID	Samples Type	Samples Recovery (%)	Samples "N" Value	GT402 Readings
350	THF Drilling INC., RT-1800 Air Rotary								% Oxygen ◆ H2S ppm ● CO ppm ■ 0 20 40 60 80 100
352				350					
354		Gravelly sand well mixed - Color: Gray							
356									
358									
360				360					
362		Clayey siltstone - Color: Orangey tan - Moisture Content: slightly moist							
364									
366									
368									
370				370					
372		Siltstone - Color: Light tan - Moisture Content: Slightly moist							
374									
376									
378									
380				380					
382		Gravelly sandstone - Color: light gray							
384									
386									
388									
390				390					
392		Gravelly sandstone with some cobbles - Color: Light gray							
394									
396									
398									
400									

Continued on next page

SCREEN 387.00ft TO 412.00ft

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-20 - REVISED

BORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

BORING METHOD: THF Drilling INC.,- RT-1800 Air Rotary

METRES	FEET	DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)
122	400			400
	402			
123	404	Sandy siltstone - Color: Tan - Moisture Content: Moist		
	406			
124	408			
125	410			410
	412			
126	414	Sandy siltstone, slightly consolidated - Color: Orangey light tan		
	416			
127	418			
128	420			420
	422			
129	424	Tan silty sandstone with thin clay layers - Moisture Content: Moist		
	426			
130	428			
131	430			430
	432			
132	434	Well sorted sandstone with some silt - Color: light gray		
	436			
133	438			
134	440			440
	442			
135	44			
	446			
136	448			
137	450	Continued on next page		

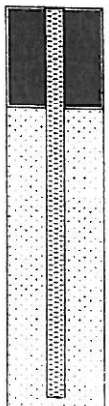
Samples: ID, Type, Recovery (%), "N" Value

GT402 Readings: % Oxygen, H2S ppm, CO ppm — 0 20 40 60 80 100

THF Drilling: Driller Ramon

BH-20





BENTONITE 398.00ft TO 403.00ft

410.00ft, June 27, 2001

SAND PACK 403.00ft TO 446.00ft

CAVED MATERIAL 446.00ft TO 450.00ft

PROJECT: Badlands

Groundwater Monitoring Well BH-20 - REVISED

LOCATION: 31125 Ironwood Ave

BORING DATE: June 27, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE: DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Samples: ID	Type	Recovery (%)	"N" Value	GT402 Readings: % Oxygen ◆, H2S ppm ●, CO ppm ■ (0 20 40 60 80 100)	THF Drilling: Driller Ramon
450	THF Drilling INC., RT-1800 Air Rotary	END OF EXPLORATION @ 450.00ft		450.00						BH-20
452										END OF EXPLORATION
454										
456										
458										
460										
462										
464										
466										
468										
470										
472										
474										
476										
478										
480										
482										
484										
486										
488										
490										
492										
494										
496										
498										
500										

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only	GT402 Readings: % Oxygen ◆ / H2S ppm ● / CO ppm ■ (0 20 40 60 80 100)
0	0	THF Drilling INC., RT-1800 Air Rotary	GROUND SURFACE		0					
			Slight brown consolidated sandstone (fine) - Moisture Content: dry						x	■ ◆
									x	
					20					
			Light grey, fine sandstone unconsolidated - Moisture Content: Slightly moist						x	■ ◆
					30					
			Light brown sandstone, unconsolidated fine sand - Moisture Content: Slightly moist						x	■ ◆
					40					
			Siltstone - unconsolidated - no gravel - Color: light grey to brown - Moisture Content: Slightly moist						x	
15	50		Continued on next page							

THF Drilling: Driller Ramon

BH-21

STICKUP 0ft to 3.00ft

REGISTERED GEOLOGIST
MARK D. HUNT
No. 7048
Exp. 3/02
STATE OF CALIFORNIA

DRAWN: Panda Workman

PROJECT: Badlands

LOCATION: 31126 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only	GT482 Readings: % Oxygen ◆ H2S ppm ◆ CO ppm ■ (0 20 40 60 80 100)
	50	THF Drilling INC.,. RT-1600 Air Rotary			50					
16	52									
	54		Siltstone with thin clay beds - Color: Light brown Comment: Clay beds indicative from clay balls - infrequent						X	
17	56									
	58									
18	60				60					
	62									
19	64		Siltstone - unconsolidated - Color: Light brown - Moisture Content: Slightly moist						X	
	66									
20	68									
	70				70					
21	72									
	74		Siltstone with <1% coarse sand/gravel - Color: Light brown						X	
22	76									
	78									
23	80				80					
	82									
24	84		Siltstone - unconsolidated - Color: light brown - Moisture Content: slightly moist						X	
	86									
25	88									
	90				90					
26	92									
	94		Siltstone - unconsolidated - Color: light brown - Moisture content: Slightly moist						X	
27	96									
	98									
28	100		Continued on next page							

THF Drilling: Driller Ramon



BH-21



DRAWN: Panda Workmen

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only	GT482 Readings: % Oxygen ◆ / H2S ppm ● / CO ppm ■ (0 20 40 60 80 100)	THF Drilling: Driller Ramon
	100	THF Drilling INC., RT-1800 Air Rotary			100						BH-21
	102										
	104		Siltstone - unconsolidated - Color: Light brown - Moisture Content: Slightly moist Comment: no down pressure neccassary, using weight of pipe and drilling rod to penetrate formation						X	■ ◆	
31	106										
32	108										
33	110				110						
34	112										
	114		Siltstone - semi - consolidated Color: Light-medium brown						X		
35	116										
36	118										
	120				120						
37	122										
	124		Siltstone - evidence of some consolidation - Color: Light brown - Moisture Content: Slightly moist						X		
38	126										
39	128										
	130				130						
40	132										
	134		Siltstone - <1% medium - some sand Color: light red brown - Moisture Content: Slightly Moist						X	■ ◆	
41	136										
42	138										
	140				140						
43	142										
	144		Siltstone - thin layers clay - Color: light brown - Moisture Content: Slightly moist						X		
	146										
45	148										
	150										

Continued on next page

DRAWN: Panda Workmen

PROJECT: Badlands

Groundwater Monitoring Well BH-21

LOCATION: 31125 Ironwood Ave

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METHOD	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only
	150	THF Drilling INC.,: RT-1800 Air Rotary							
	152								
	154		Siltstone - Color: Light brown - Moisture Content: Slightly moist		150				
	156								
	158								
	160					X			
	162				160				
	164		Siltstone - Color: Light brown Slurry sample						X
	166								
	168								
	170				170				
	172								
	174		Siltstone with minor gravel - Color: Light brown						X
	176								
	178								
	180				180				
	182								
	184		Siltstone with minor igneous gravel - Color: Light brown						X
	186								
	188								
	190				190				
	192								X
	194		NO SAMPLE. Stopped at 200 feet on 6/19/01. Driller flushed the borehole with water to remove clay that had formed during drilling in the borehole. Continued to drill on 6/20/01						
	196								
	198					X			
	200								

GT402 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-21

Continued on next page

DRAWN: Panda Workmen

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE: METRES / FEET

BORING METHOD: THF Drilling INC., RT-1800 Air Rotary

SOIL PROFILE: DESCRIPTION | STRATA PLOT | DEPTH B.G.S. (ft)

Drilling Fluid: Air & Water | Wyo-Foamer | Poly VIS | Air Only

GT482 Readings: % Oxygen ◆ | H2S ppm ◆ | CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-21

METRES	FEET
61	200
	202
62	204
	206
63	208
64	210
	212
65	214
	216
66	218
	220
	222
68	224
	226
69	228
70	230
	232
71	234
	236
72	238
73	240
	242
74	244
	246
	248
76	250

NO SAMPLE. Stopped at 200 feet on 6/19/01. Driller flushed the borehole with water to remove clay that had formed during drilling in the borehole. Continued to drill on 6/20/01

Air Only: X

Air & Water: X

DEPTH B.G.S. (ft): 230

DATE: 6/20/01 Silty sandy with few coarse sand to gravel - Color: Light brown Slurry sample.

Air & Water: X

DEPTH B.G.S. (ft): 240

Silty clayey with minor sand and gravel - Color: light brown - Slurry sample

Air & Water: X

Continued on next page

GROUT 0.00ft TO 424.00ft

DRAWN: Pande Workmen

Riverside County Waste Management Department

CHECKED:

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only
77	250	THF Drilling INC.,- RT-1600 Air Rotary							
	252								
	254		Silty clay with minor sand and gravel - Color: light brown - Slurry sample			X			
78	256								
	258								
79	260				260				
80	262								
	264					X			
81	266								
	268								
82	270								
	272								
83	274								
	276					X			
84	278								
	280		Clayey siltstone with minor sand - Color: light brown - Slurry sample						
85	282								
	284								
86	286					X			
	288								
87	290								
	292								
88	294								
	296					X			
89	298								
	300		Continued on next page						
90									
91									

GT482 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-21

DRAWN: Penda Workman

PROJECT: Badlands

LOCATION: 31126 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only
	300	THF Drilling INC., - RT-1800 Air Rotary			300				
92	302								
	304								
93	306					X			
	308								
94	310		Clayey siltstone with very minor gravel - Color: Light brown - Slurry sample						
	312								
95	314								
	316					X			
96	318								
	320				320				
97	322								
	324								
98	326					X			
	328								
99	330		Clayey siltstone with minor gravel - Color: light gray - Slurry Sample						
	332								
100	334								
	336					X			
101	338								
	340				340				
102	342								
	344								
103	346		Siltstone - Color: Light brown Slurry Sample			X			
	348								
104	350								

Continued on next page

GT482 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon



BH-21



DRAWN: Panda Workmen

CHECKED:

PROJECT: Badlands

LOCATION: 31125 Ironwood Ave

Groundwater Monitoring Well BH-21

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only
	350	THF Drilling INC., RT-1800 Air Rotary							
	352				350	X			
	354		Siltstone - more fine - Color light brown - Stopped drilling for 6/20/01						
	356								
	358						32oz	16oz	
	360				360				
	362								
	364					X			
	366								
	368								
	370		Did not drill on 6/21/01. Continued drilling on 6/22/01 Sand of quartz and alkali feldspar becoming more sandy- Slurry Sample						
	372								
	374					X			
	376								
	378								
	380				380				
	382								
	384		Siltstone no gravel <1% gravel - Color: light brown - Slurry Sample			X			
	386								
	388								
	390				390				
	392								
	394		Siltstone becoming less sandy more clay- Slurry sample						
	396								
	398						32oz	16oz	
	400		Continued on next page						

GT482 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-21



DRAWN: Panda Workman

PROJECT: Badlands

Groundwater Monitoring Well BH-21

LOCATION: 31125 Ironwood Ave

BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

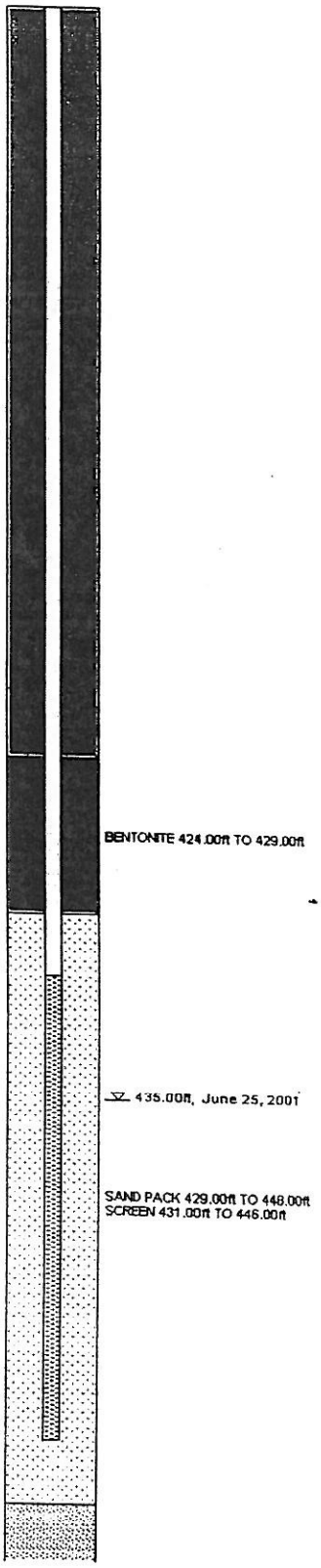
DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Wyo-Foamer	Poly VIS	Air Only
122	400	THF Drilling INC., - RT-1800 Air Rotary							
	402				400				
123	404		Sandstone - very fine no silt - Color: Light Tan - Slurry sample			X			
	406								
124	408								
125	410				410				
	412		Becoming more siltly but still sandstone - more muscovite and biotite minerals - Color: light tan - Slurry Sample			X			
126	414								
	416								
127	418						32oz		
	420				420				
129	422								
	424		Siltstone w/ ~10% coarse sand interbeds becoming more sandy - Color: Light tan - Slurry Sample			X			
130	426								
	428								
131	430				430				
	432								
132	434		Siltstone becoming more silty - Color: Light brown - Slurry sample			X			
133	436								
	438								
134	440				440				
	442							16oz	
135	444		No cutting were produced						
136	446					X			
	448								
137	450								

Continued on next page

GT482 Readings: % Oxygen ◆ H2S ppm ● CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-21



DRAWN: Panda Workman

PROJECT: Badlands

Groundwater Monitoring Well BH-21

LOCATION: 31125 Ironwood Ave

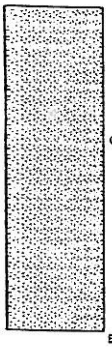
BORING DATE: June 19, 2001 DATUM: GROUND SURFACE DIP: Level LOGGED: Mark Hunt

DEPTH SCALE METRES	DEPTH SCALE FEET	BORING METHOD	SOIL PROFILE DESCRIPTION	STRATA PLOT	DEPTH B.G.S. (ft)	Drilling Fluid: Air & Water	Drilling Fluid: Wyo-Foamer	Drilling Fluid: Poly VIS	Drilling Fluid: Air Only
	450	THF Drilling INC.,: RT-1800 Air Rotary							
	452								
138	454								
	456		No cutting were produced			X			
139	458								
140	460		END OF EXPLORATION @ 460.00ft		460				
141	462								
	464								
142	466								
	468								
143	470								
	472								
144	474								
	476								
145	478								
	480								
146	482								
	484								
147	486								
	488								
148	490								
	492								
149	494								
	496								
150	498								
	500								
151									
152									

GT482 Readings: % Oxygen ◆ H2S ppm ◆ CO ppm ■ (0 20 40 60 80 100)

THF Drilling: Driller Ramon

BH-21



CAVED MATERIAL 448.00ft TO 460.00ft

END OF EXPLORATION

DRAWN: Penda Workman

WELL NUMBER BH - 22

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 22
PROJECT LOCATION South part of site, East of sedimentation Basin
DATE STARTED 5/14/09 **COMPLETED** 5/18/09
GROUND ELEVATION 2018.38 ft **HOLE SIZE** 10"
DRILLING CONTRACTOR Layne Christensen Company
GROUND WATER LEVELS:
DRILLING METHOD Tricone Air Rotary
AT TIME OF DRILLING 111.34 ft / Elev 1907.04 ft 5-15-2009
LOGGED BY Panda Workman **CHECKED BY** Todd Shibata
AT END OF DRILLING 97.90 ft / Elev 1920.48 ft 5-18-2009
NOTES
AFTER DRILLING 74.24 ft / Elev 1944.14 ft 5-22-2009

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0	D 7:28	CL		(CL) Clay, low plasticity, light brown ... Open bore hole drilling		Well cap and above ground well monument
5	D 7:38	CL		5.0 (CL) Clay, low plasticity, light brown	2013.4	
10	D 7:39	CL		10.0 (CL) Clay, some gravel, light brown	2008.4	Cement grout
15	D 7:40	CL		15.0 (CL) Clay with silt, trace medium grain sand, light brown	2003.4	
20	D 7:43	CL		20.0 (CL) Clay with silt, trace coarse grain sand with some gravel, light brown	1998.4	Blank Casing - 4" Dia. Sch 80 PVC with Flush Threaded Connection
25	D 10:59	SM		25.0 (SM) Silty Sand, fine grain sand, slightly moist, yellow brown	1993.4	
30	D 11:05	SM		30.0 (SM) Sand with some silt, fine grain sand, slightly moist, very light brown	1988.4	Cement grout
35	D 11:13	CL		35.0 (CL) Clay with some silt, some medium grain sand, slightly moist, brown	1983.4	
40	D 11:25	SM		40.0 (SM) Silty Sand, fine to coarse grain sand, slightly moist, light brown	1978.4	Cement grout
45	D 11:47			45.0	1973.4	

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:03 - Z:\QUAZI_KANIZ\GINT\PROJECTS\BADLANDS BH - 22.GPJ

WELL NUMBER BH - 22

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 22
PROJECT LOCATION South part of site, East of sedimentation Basin

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
45						
		CL		(CL) Clay, trace medium grain sand, slightly moist, light brown		Blank Casing - 4" Sch 80 PVC with Flush Threaded Connections
50	D 11:56			50.0	1968.4	
		SM		(SM) Sand with silt, fine to medium grain sand, light brown		
55	D 12:00			55.0	1963.4	
		SM		(SM) Sand with silt, fine grain sand, light brown		
				57.0	1961.4	
		CL		(CL) Clay, trace medium grain sand, medium plasticity, dry, red		
60	D 12:30			60.0	1958.4	
		CL		(CL) Clay, trace medium grain sand, some silt, slightly moist, low plasticity, yellow brown		Hydrated Bentonite Chip Seal
65	D 12:58			65.0	1953.4	
		CL		(CL) Clay, trace medium grain sand, some silt, slightly moist, low plasticity, light brown		No. 60 Transition Sand from 67' to 72'
70	D 13:00			70.0	1948.4	
	D 13:03	SM-ML		(SM-ML) Silty Sand/ Sandy Silt, fine to coarse grain sand, slightly moist, brown ... with round gravel		
75				▼ - 74.24 ft at 5-22-09 75.0	1943.4	
	D 13:08	SP-SM		(SP-SM) Sand - Sand with Silt, medium to coarse grain sand, slightly moist, light brown		Filter Pack No. 10/20 Silica Sand
80	D 13:30			80.0	1938.4	
		CL		(CL) Clay, trace fine grain sand, slightly moist, brown		
85	D 13:45			85.0	1933.4	
		CL		(CL) Clay with sand, medium grain sand, slightly moist, brown		
90	D 14:00			90.0 ... trace gravel	1928.4	0.02" Slotted Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
		CL		(CL) Clay with fine to medium grain sand, trace rounded gravel, slightly moist, brown		
95	D 14:15			95.0	1923.4	
		CL		(CL) Clay with Silt, trace fine grain sand, slightly moist, brown		

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:03 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 22.GPJ

WELL NUMBER BH - 22

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 22
PROJECT LOCATION South part of site, East of sedimentation Basin

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
		CL		(CL) Clay with Silt, trace fine grain sand, slightly moist, brown ▼ - 97.9 ft at 5-18-09	
100	D 14:30			100.0 1918.4	
		CL		(CL) Rounded gravelly clay with fine to medium grain sand, slightly moist, yellow brown	
105	D 14:45			105.0 1913.4	
		CL		(CL) Rounded gravelly clay with fine to medium grain sand, slightly moist, yellow brown	
110	D 14:50			110.0 1908.4	
	D 15:00	CL		(CL) Clay, with fine grain sand, slightly moist, light brown ▽ - 111.34 ft at 5-15-09	
				113.0 1905.4	

Silt Sump - Blank Casing
Bottom Cap
Borehole Slough

Drilling completed 113.0 feet below ground surface (bgs). Borehole open to 113.0 feet bgs prior to well construction. Ground elevation is estimated.
Sample type number: D = disturbed sample collected from air return cyclone.

GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 15:01 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 22.GPJ

WELL NUMBER BH - 23

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site
DATE STARTED 5/19/09 **COMPLETED** 5/22/09
GROUND ELEVATION 2367.48 ft **HOLE SIZE** 12" Temp. Casing/10"
DRILLING CONTRACTOR Layne Christensen Company
GROUND WATER LEVELS:
DRILLING METHOD Tricone Air Rotary
AT TIME OF DRILLING --- None measured
LOGGED BY Panda Workman **CHECKED BY** Todd Shibata
AT END OF DRILLING --- None measured
NOTES
AFTER DRILLING 333.83 ft / Elev 2033.65 ft 5-27-09

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
0	D 9:45 5/19/09	CL-ML		(CL-ML) Clay with silt, trace medium to coarse grain sand, trace gravel, yellow brown		Well cap and traffic rated vault
5	D 10:06	CL-ML		5.0 (CL-ML) Clay with silt, trace medium to coarse grain sand, trace gravel, yellow brown	2362.5	
10	D 10:30	CL		10.0 (CL) Silty clay, with fine grain sand with trace medium grain sand, yellow brown	2357.5	
15	D 10:43	CL		15.0 (CL) Sity clay, some fine grain sand, yellow brown	2352.5	
20	D 10:58	SM		20.0 (SM) Sand, some silt, fine to coarse grain sand, trace fine gravel, light brown ... temporary conductor casing installed from 0-20 feet bgs, open hole drilling from 20 feet bgs to total depth	2347.5	Blank Casing - 4" Dia. Sch 80 PVC with Flush Threaded Connections
25	D 14:44	SM		25.0 (SM) Sand with silt, fine to medium grain sand, light brown ... gravel layer	2342.5	Cement grout
30	D 14:50 D 14:59	SM		30.0 (SM) Sand with silt, fine grain sand, light brown	2337.5	
35	D 15:06	SM		35.0 (SM) Sand with silt, fine to medium grain sand, trace gravel, light brown	2332.5	Cement grout
40	D 15:11	SM		40.0 (SM) Sand with silt, fine to coarse grain sand, with gravel, light brown ... visible increase in silt content	2327.5	
45	D 15:40			45.0	2322.5	

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI. KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
45					
50	D 15:48	SM		(SM) Sand with silt, fine to coarse grain sand, with fine grain gravel, very light brown to white 50.0 2317.5	
55	D 16:02	SM		(SM) Sand with silt, fine to coarse grain sand, trace fine gravel, very light brown to white 55.0 2312.5	Bentonite Grout
60	D 16:15	SM		(SM) Sand with silt, fine to coarse grain sand, some fine gravel, very light brown to white 60.0 2307.5	
65	D 7:53 5/20/09	SM		(SM) Silty sand, fine to coarse grain sand, no gravel, slightly moist, light brown 65.0 2302.5	Blank Casing
70	D 8:09	SM		(SM) Silty sand, fine grain sand, slightly moist, light brown 70.0 2297.5	
75	D 8:18	SM		(SM) Silty sand, fine to medium grain sand, slightly moist, light brown 75.0 2292.5	
80	D 8:29	SM		(SM) Silty sand, fine grain with trace medium grain sand, slightly moist, light brown 80.0 2287.5	Bentonite Grout
85	D 9:08	SM		(SM) Silty sand, fine to medium grain sand, slightly moist, light brown 85.0 2282.5	
90	D 9:49	SM		(SM) Sand with silt, fine to coarse grain sand, dry, light brown to white 90.0 2277.5	Blank Casing
95	D 10:30	SM		(SM) Sand with silt, fine to medium grain sand, dry, light brown to white 95.0 2272.5	
		SM		(SM) Sand with silt, fine to medium grain sand, dry, light brown to white	

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

WELL NUMBER BH - 23

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
100	D 11:20	SM		(SM) Sand with silt, fine to medium grain sand, dry, light brown to white 100.0 2267.5	
105	D 12:05	SM		(SM) Sand, some silt, fine to medium grain sand, dry, light brown to white 105.0 2262.5	Bentonite Grout
110	D 12:33	SM		(SM) Silty sand, fine grain sand, slightly moist, light brown 110.0 2257.5	
115	D 12:44	SM		(SM) Silty sand, fine to medium grain sand, slightly moist, light brown	
120	D 13:02	SC		120.0 2247.5 (SC) Sand with clay, medium grain sand, slightly moist, light brown	Bentonite Grout
125	D 14:05	CL		125.0 2242.5 (CL) Clay, some medium grain sand, slightly moist, light brown	
130	D 14:10	SM		130.0 2237.5 (SM) Silty sand, trace clay, fine grain sand, slightly moist, light brown	
135	D 14:21	SC		135.0 2232.5 (SC) Sand with clay, fine grain sand, slightly moist, light brown	
140	D 14:30	SC-CL		140.0 2227.5 (SC-CL) Clayey sand - sandy clay, fine grained sand, light brown, slightly moist	Blank Casing
145	D 15:10				

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI. KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

WELL NUMBER BH - 23

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
150	D 15:20	SC-CL		(SC-CL) Clayey sand - sandy clay, fine grained sand, light brown, slightly moist	
155				155.0 2212.5	
	D 15:37	CL		(CL) Clay with sand, trace silt, slightly moist, light brown	
160	D 15:57				
165	D 8:43 5/21/09			165.0 2202.5	
		SM		(SM) Silty sand with fine grain gravel, fine grain sand, slightly moist, light brown	Blank Casing
170	D 8:50			170.0 2197.5	
		SM		(SM) Silty sand with fine grain gravel, fine grain sand, dry, light brown	
175	D 9:05			175.0 2192.5	Bentonite Grout
		SM		(SM) Silty sand, fine to medium grain sand, light brown ... trace clay	
180	D 9:20			180.0 2187.5	
		SM		(SM) Silty sand, some clay, trace fine grain gravel, fine to medium grain sand, dry, light brown	
185	D 9:53			185.0 2182.5	
		SM		(SM) Silty sand, some clay, fine to medium grain sand, dry, light brown to white	
190	D 10:18			190.0 2177.5	
		SP-SM		(SP-SM) Sand, trace to some silt, trace fine grain gravel, medium to coarse grain sand, dry, light brown to white	
195	D 10:34				

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI_KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
200	D 11:07	SP-SM		(SP-SM) Sand, trace to some silt, trace fine grain gravel, medium to coarse grain sand, dry, light brown to white	Bentonite Grout
205	D 11:45	SP-SM		205.0 2162.5 (SP-SM) Sand, some silt, fine to medium grain sand, dry, light brown to white	
210	D 12:10	SP-SM		210.0 2157.5 (SP-SM) Sand, trace to some silt, medium to coarse grain sand, dry, light brown to white	
215	D 12:47	SP		213.0 2154.5 (SP) Sand, trace silt, medium to coarse grain sand, trace fine grain gravel, dry, light brown to white	Blank Casing
220	D 13:12	SP-SM		220.0 2147.5 (SP-SM) Sand, some silt, fine to medium grain sand, dry, light brown to white	
225	D 13:35	SP-SM		225.0 2142.5 (SP-SM) Sand, some silt, fine to medium grain sand, dry, light brown	
230	D 14:00	SM		230.0 2137.5 (SM) Silty sand, fine to medium grain sand, slightly moist, light brown	
235	D 14:20	SP-SM		235.0 2132.5 (SP-SM) Sand, trace to some silt, fine to medium grain sand, dry, light brown mixed with white	
240	D 14:45	SP		240.0 2127.5 (SP) Sand, trace silt, medium to coarse grain sand, dry, light brown to white	Bentonite Grout
245	D 15:18	SP-SM		245.0 2122.5 (SP-SM) Sand, trace to some silt, fine to medium grain sand, dry, light brown to white	
250	D 15:43	SP		250.0 2117.5 (SP) Sand, trace silt, fine grain sand, dry, light brown to white	

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

WELL NUMBER BH - 23

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
255	D 16:05	SP		(SP) Sand, trace silt, fine grain sand, dry, light brown to white		
				255.0	2112.5	Blank Casing
		SM		(SM) Silty sand, fine to medium grain sand, dry, light brown		
260	D 16:32			260.0	2107.5	
		CL		(CL) Clay, trace to some medium grain sand, dry, brown - red		
265	D 8:03 5/22/09			265.0	2102.5	
		CL		(CL) Clay, trace fine to medium grain sand, low plasticity, dry, brown - red		
270	D 8:27			270.0	2097.5	
		CL		(CL) Clay with fine to medium grain sand, some silt, low plasticity, brown - red		
275	D 8:47			275.0	2092.5	
		SC		(SC) Clayey sand, fine to medium grain sand, low plasticity, dry, yellow brown		
280	D 9:01			280.0	2087.5	
		SM		(SM) Sand with silt, fine to medium grain sand, dry, light brown		
285	D 9:30			285.0	2082.5	
		SC-SM		(SC-SM) Sand, fine grain sand, with low plasticity clay, with silt, dry, yellow brown		Bentonite Grout
290	D 9:47			... fine to medium grain sand		
295	D 10:00			... light brown		Blank Casing
300	D 10:20			300.0	2067.5	
		SM		(SM) Sand with silt, medium grain sand, dry, light brown		Hydrated

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

WELL NUMBER BH - 23

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
305	D 11:08	SM		(SM) Sand with silt, medium grain sand, dry, light brown ... dense, slow drilling rate	Bentonite Chip Seal
				305.0 2062.5	No. 60 Transition Sand from 304' to 309'
310	D 12:08	SP-SM		(SP-SM) Sand, some silt, fine to coarse grain sand, dry, light brown	
315	D 12:33			... fine to coarse grain sand	Filter Pack No. 10/20 Silica Sand
320	D 12:50				
325	D 13:12				
330	D 13:18				
335	D 13:30			▼ - 333.83 ft (bgs) at 5-27-09 ... light brown to yellow brown ... dense, slow drilling	
340	D 14:05	SC-SM		340.0 2027.5 (SC-SM) Sand with silt, with low plasticity clay, fine to coarse grain sand, dry, yellow to red brown	
345	D 14:30	SC		345.0 2022.5 (SC) Sand with low plasticity clay, fine to coarse grain sand, dry, yellow to red brown	
350	D 14:48	CL		350.0 2017.5 (CL) Clay, with fine to coarse grain sand, low plasticity, dry, red	0.02" Slotted Casing 4" Sch 80 PVC with Flush Threaded

GENERAL BH / TP / WELL - GINT STD US.GDT - 7/12/10 16:05 - Z:\QUAZI. KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

WELL NUMBER BH - 23

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management Department
PROJECT NAME 2009 Groundwater Investigation
PROJECT NUMBER BH - 23
PROJECT LOCATION North East Side of Site

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
355		CL		355.0 (CL) Clay, with fine to coarse grain sand, low plasticity, dry, red	2012.5	Connections
	D 15:00	SC-SM		(SC-SM) Sand with low plasticity clay, with silt, fine to coarse grain sand, dry, red		0.02" Slotted Casing 4" Sch 80 PVC with Flush Threaded Connections
360	D 15:05			360.0	2007.5	
		SP-SM		(SP-SM) Sand, some silt, fine to medium grain sand, dry, yellow to white brown		
365	D 15:30			365.0 (SM) Sand with silt, fine to medium grain sand, dry, yellow brown	2002.5	Silt Sump-Blank Casing
	D 15:40	SM				Bottom Cap
370				370.0	1997.5	Borehole Slough

Drilling completed to 370.0 feet below ground surface (bgs).
Borehole open to 370.0 feet bgs prior to well construction.
No groundwater encountered during drilling.
Sample type number: D = disturbed sample collected from air return cyclone.

GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 15:11 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 23.GPJ

WELL NUMBER BH - 24

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management
PROJECT NAME Badlands BH - 24 Shallow Investigation
PROJECT NUMBER BH - 24
PROJECT LOCATION Northeast of the Cycle Park
DATE STARTED 5/27/09 **COMPLETED** 6/3/09
GROUND ELEVATION 2210.81 ft **HOLE SIZE** 10"
DRILLING CONTRACTOR Layne Christensen Company
GROUND WATER LEVELS:
DRILLING METHOD Tricone Air Rotary
AT TIME OF DRILLING --- None measured
LOGGED BY Panda Workman **CHECKED BY** Todd Shibata
AT END OF DRILLING 244.00 ft / Elev 1966.81 ft 6/2/2009
NOTES
AFTER DRILLING 224.00 ft / Elev 1986.81 ft 6/3/2009

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					
		CL		(CL) Clay, some fine to medium grain sand, low plasticity, some silt, slightly moist, red brown	Well cap and above ground well monument
5	D 16:48			5.0 2205.8	
		CL		(CL) Clay, some fine to medium grain sand, low plasticity, some silt, slightly moist, red brown	
10	D 16:52			10.0 2200.8	Cement grout
		SM		(SM) Silty sand, fine to coarse grain sand, slightly moist, brown	
15	D 16:54			15.0 2195.8	
		SM		(SM) Silty sand, fine to coarse grain sand, with angular fine grain gravel, slightly moist, brown	
20	D 16:56			20.0 2190.8	Blank Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
		SC		(SC) Clayey sand, fine to coarse grain sand, low plasticity, with angular fine grain gravel, low plasticity, brown	
25	D 11:30 5/28/09			25.0 2185.8	
		SC		(SC) Sand with low plasticity clay, fine to coarse grain sand, moist, brown	
				29.0 2181.8	
30	D 11:35	GP		(GP) Gravel, fine to coarse grain sub-angular gravel, with clay, with fine to coarse grain sand, brown	
				31.0 2179.8	
				INTERLAYERED GP, SC AND CL (GP) Fine to coarse grain sub-angular, poorly graded gravel, with clay, with fine to medium grain sand, moist, brown (SC) Clayey sand, fine to medium grain sand, low plasticity, moist, brown (CL) Clay, some fine to medium grain sand, low plasticity, moist, brown	
35	D 11:45				Cement grout
40	D 11:49				
45	D 12:18			45.0 2165.8	

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GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 14:13 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 24.GPJ

County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management **PROJECT NAME** Badlands BH - 24 Shallow Investigation

PROJECT NUMBER BH - 24 **PROJECT LOCATION** Northeast of the Cycle Park

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
45						
				(CL) Clay, low plasticity, with fine to coarse grain sand, yellow brown, moist		
				... interlayered with fine grain, subrounded gravel, from 47-51'		
50	D 12:20	CL				
55	D 12:32			55.0	2155.8	
				(SC) Sand, fine to medium grain sand, with clay and silt, moist, brown to yellow brown		
				... interlayered with fine grain, subrounded gravel, from 57-60'		Bentonite Grout
60	D 12:43	SC				
65	D 13:01			65.0	2145.8	
				(SM) Sand, fine to medium grain sand, with silt, moist, yellow brown		
		SM		... interlayered with fine grain, subrounded gravel, from 66 - 69'		
70	D 13:12			70.0	2140.8	Hydrated Bentonite Chip Seal
				(SC) Sand, fine to medium grain sand, with clay, moist, yellow brown		
	D 13:22			... interlayered with fine grain, subrounded gravel, from 74 - 80'		
75		SC				No. 60 Transition Sand from 73.5' to 79.0'
80	D 13:30			81.0	2129.8	
				(CL) Clay, low plasticity, sandy, fine to medium grain, slightly moist, red brown to brown		
		CL				
85	D 14:01			86.0	2124.8	
				(GP) Gravel, fine grain, subrounded, brown		Filter Pack No. 10/20 Silica Sand
				... interlayered with fine to medium grain sand with clay, moist, yellow brown		
90	D 14:05	GP				
95	D 14:11					

GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 14:13 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 24.GPJ

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County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management **PROJECT NAME** Badlands BH - 24 Shallow Investigation

PROJECT NUMBER BH - 24 **PROJECT LOCATION** Northeast of the Cycle Park

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
		GP		(GP) Gravel, fine grain, subrounded, brown	
100	D 14:21				0.02" Slotted Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
				101.0 2109.8	
	D 8:10 5/29/09			(SP-SM) Sand, some silt, fine to medium grain, light brown, very moist ... no soil cuttings return, very moist, soil clogged in the hole	
105				... no soil cuttings return from 105' to 115'	
		SP-SM			
110	D 8:18			... water added to hole to facilitate soil cuttings return	
115	D 9:15			115.0 2095.8	
		GP		(GP) Gravel, subrounded, fine grain, with clay, with fine to medium grain sand, brown ... water in soil cuttings return	
120	D 9:45			120.0 2090.8	Filter Pack
				(GP) Gravel, subrounded, fine grain, with clay, with fine to coarse grain sand, brown	
125	D 9:42			... no sample retrieved, soil/water mixture passes through gravel screen	
		GP			
130	D 9:47			... no sample retrived, soil/water mixture passes through gravel screen	
135	D 10:02			135.0 2075.8	0.02" Slotted Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
		SM		(SM) Sand, fine to coarse grain sand, with fine grain gravel, with silt, brown, water in cuttings return	
140	D 10:11			140.0 2070.8	
		SM		(SM) Sand, fine grain, some fine grain gravel, with silt, brown, water in cuttings return	
145	D 10:30			145.0 2065.8	
		GP		(GP) Gravel, fine grain, subangular, with clay, with coarse grain sand, brown, wet	

GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 14:13 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 24.GPJ

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County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management **PROJECT NAME** Badlands BH - 24 Shallow Investigation

PROJECT NUMBER BH - 24 **PROJECT LOCATION** Northeast of the Cycle Park

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
150	D 10:30	GP		(GP) Gravel, fine grain, subangular, with clay, with coarse grain sand, brown, wet	Filter Pack
				150.0 2060.8	
		GP		(GP) Gravel, fine grain, subangular, sandy, fine to coarse grain sand, with clay, brown	
155	D 10:40			155.0 2055.8	
		SC		(SC) Clayey sand, fine to coarse grain sand, trace fine grain gravel, very moist, brown	
160	D 10:50			160.0 2050.8	Filter Pack
		SC		(SC) Sand, fine to coarse grain, with clay, some fine grain gravel, subangular, very moist, brown to yellow brown	
165	D 11:22			165.0 2045.8	
		SM		(SM) Sand, fine grain, with silt, very moist, yellow brown	
170	D 11:25			170.0 2040.8	
		SM		(SM) Sand, fine to medium grain, with silt, very moist, yellow brown	
175	D 11:30			175.0 2035.8	0.02" Slotted Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
		SC		(SC) Clayey sand, fine to coarse grain, trace gravel, moist, yellow brown to brown	
180	D 11:33			... with clay	
185	D 12:00			185.0 2025.8	
		SC		(SC) Sand, fine to medium grain, with clay, trace fine grain gravel, moist, yellow brown	
190	D 12:05			190.0 2020.8	Filter Pack
		SP-SM		(SP-SM) Sand, fine to medium grain, some silt, moist, yellow brown	
195	D 12:10			... trace fine grain gravel	

GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 14:13 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 24.GPJ

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County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management **PROJECT NAME** Badlands BH - 24 Shallow Investigation

PROJECT NUMBER BH - 24 **PROJECT LOCATION** Northeast of the Cycle Park

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
200	D 12:15	SP-SM		(SP-SM) Sand, fine to medium grain, some silt, moist, yellow brown ... fine to coarse grain sand, no gravel	Filter Pack
205	D 12:40			... fine to medium grain sand	
210	D 12:42				
215	D 12:45	SC		215.0 1995.8 (SC) Sand, fine to coarse grain, with clay, trace fine grain gravel, moist, yellow brown	0.02" Slotted Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
220	D 12:50	SP-SC		220.0 1990.8 (SP-SC) Sand, fine to coarse grain, some clay, trace fine grain gravel, moist, yellow brown to brown	
225	D 13:02	SP		225.0 1985.8 (SP) Sand, fine grain sand, moist, yellow brown	
230	D 13:10				
235	D 13:17				Filter Pack
240	D 13:25	SM		240.0 1970.8 (SM) Silty sand, fine grain, moist, gray brown	
245	D 13:39	SP		245.0 1965.8 (SP) Sand, fine grain, trace silt, moist, yellow brown	
250	D 11:46			250.0 1960.8 (SP-SM) Sand, some silt, moist, yellow brown to yellow	0.02" Slotted

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WELL NUMBER BH - 24

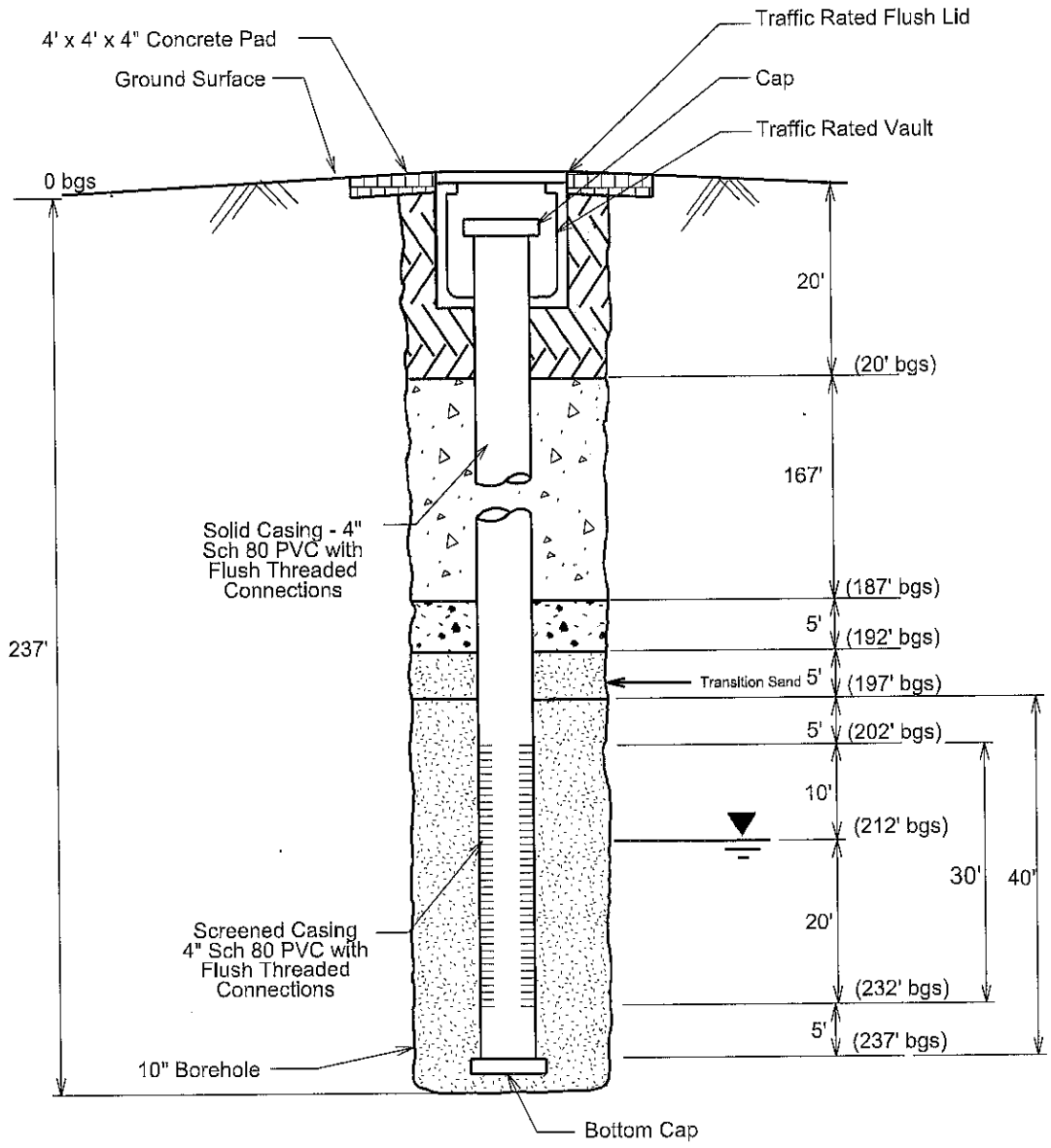
County of Riverside
Waste Management Department

CLIENT Riverside County Waste Management
PROJECT NAME Badlands BH - 24 Shallow Investigation
PROJECT NUMBER BH - 24
PROJECT LOCATION Northeast of the Cycle Park

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
255	D 13:52	SP-SM		(SP-SM) Sand, some silt, moist, yellow brown to yellow	Casing 4" Dia. Sch 80 PVC with Flush Threaded Connections
260	D 14:08	SC		260.0 1950.8 (SC) Sand, fine grain, with clay, moist, red-yellow	
265		SC		... no soil cuttings return	
270	D 14:50	GP		270.0 1940.8 (GP) Gravel, fine grain, with fine to coarse grain sand, with clay, moist, brown	Filter Pack
275	D 14:58	SP-SM		272.5 1938.3 (SP-SM) Sand, fine to coarse grain, some silt, with trace fine grain gravel, moist, brown	
280	D 15:03	GP		275.0 1935.8 (GP) Gravel, fine grain, subangular, with medium to coarse grain sand, with clay, moist, brown	Silt Sump-Blank Casing Bottom cap Borehole Slough
				280.0 1930.8	

Drilling completed to 280.0 feet below ground surface (bgs).
Borehole open to 280.0 feet bgs prior to well construction.
Sample type number: D = disturbed sample collected from air return cyclone.

GENERAL BH / TP / WELL - GINT STD US.GDT - 9/2/10 15:16 - Z:\QUAZI, KANIZ\GINT\PROJECTS\BADLANDS BH - 24.GPJ



LEGEND

- Cement
- Grout
- Bentonite
- Filter Pack

bgs: Below Ground Surface

Riverside County
Waste Management Department

Badlands Sanitary Landfill

Proposed BH-25 Well Details

Date: March 2014	Scale: NTS	Figure 2

File Directory: /environ/sites/badlands/water/BH-25/2014-03 attachment 3 for BH-25 letter.dgn

WELL NUMBER: BH-25

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

CLIENT Riverside County Department of Waste Resources
PROJECT NAME Badlands
PROJECT NUMBER WMENV0053
PROJECT LOCATION Moreno Valley, CA
DATE STARTED 7/6/15 **COMPLETED** 7/13/15
GROUND ELEVATION 2173.73 ft **HOLE SIZE** 8 Inch
DRILLING CONTRACTOR Yellow Jacket
GROUND WATER LEVELS:
DRILLING METHOD HSA CME-95
AT TIME OF DRILLING 229.00 ft / Elev 1944.73 ft 7/8/15
LOGGED BY PW/SC **CHECKED BY** TS
AT END OF DRILLING 199.00 ft / Elev 1974.73 ft 7/10/15
NOTES
AFTER DRILLING 190.60 ft / Elev 1983.13 ft 7/17/15

DEPTH (ft)	SAMPLE TIME	BLOW COUNTS PER 6-INCHS	GRAPHIC LOG	USCS MATERIAL DESCRIPTION	WELL DIAGRAM
0				**Engineered Fill:** (SM) Silty SAND, fine to medium grained, dry, light brown	2' x 2 x 2', Traffic Rated Well Box; Concrete
10				... fine grained	
20	7/6/15 12:18	50		... brown	4" SCH 80 Flush Threaded PVC Casing
24.0				2149.8	
				San Timoteo Formation: (SM) Silty SAND, fine to medium grained, dry, brown	
30	12:29	50		... slightly moist, dark brown	
40	12:35	50		...same as above	
45.0				2128.7	
				(SW) Well Graded SAND, fine to coarse grained, trace cobble, slightly moist, light brown	
50	12:43	50/3"			Cement-Grout
55.0				2118.7	
				(SM) Silty SAND, fine grained, dry, light brown	
60	12:53	50/3"			
70	13:04	50/3"		...same as above	
79.0				2094.7	
80	13:12	50/5"		(SW) Well Graded SAND, fine to coarse grained, dry, light brown	4" SCH 80 Flush Threaded PVC Casing
90.0				2083.7	
90	13:19	50/3"		(SM) Silty SAND, find grained, dry, reddish brown	
100	13:24	50		... little clay, brown	
110	13:53	50		...same as above	Cement-Grout
120	14:00	50/5"		...reddish brown	

GENERAL BH / TP / WELL - GINT STD US.GDT - 8/8/16 12:39 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BADLANDS BH-25.GPJ

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WELL NUMBER: BH-25

RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES

CLIENT Riverside County Department of Waste Resources **PROJECT NAME** Badlands

PROJECT NUMBER WMENV0053 **PROJECT LOCATION** Moreno Valley, CA

DEPTH (ft)	SAMPLE TIME	BLOW COUNTS PER 6-INCHS	USCS MATERIAL DESCRIPTION		WELL DIAGRAM
130	7/7/15 08:53	50/2"	(SM) Silty SAND, find grained, dry, reddish brown *(continued)* hard drilling, auger string starting to vibrate, adding water to aid in bringing soil cuttings to the surface		
140	09:40	50/4"	139.5 (SP) Poorly Graded SAND, fine to medium grained, dry, light gray	2034.2	Cement-Grout
			145.0 (SM) Silty SAND, fine grained, dry, light brown	2028.7	
150	10:04	50			4" SCH 80 Flush Threaded PVC Casing
	11:24	50			
160	11:36	50/3"			
	11:50	50/2"	...same as above		
170	13:24	50/2"			
	13:54	50/5"	177.0	1996.7	
180	14:08	50/2"	180.0 (SW) Well Graded SAND, fine to coarse grained, dry, light gray	1993.7	Hydrated Bentonite Chip Seal (178-186 feet)
			(SM) Silty SAND, fine grained, slightly moist, dark brown		
190	14:30	50	...same as above		No. 60 Transition Sand
	7/8/15 07:54	50/5"	...light brown		
200	08:49	50/5"	202.0 ...fine to medium grained	1971.7	
	09:42	50/2"	207.0 (SW) Well Graded SAND, fine to coarse grained, slightly moist, reddish brown	1966.7	
210	10:30	50/4"	(SP) Poorly Graded SAND, fine grained, moist, light olive gray		4" SCH 80 0.02" Slotted Flush Threaded PVC Screen
	11:34	50/4"			No. 3 Sand FIlter Pack
220	11:50	50/2"	223.0	1950.7	
			(SW) Well Graded SAND, fine to coarse grained, wet, light gray		
230			230.0 first encountered groundwater @ 229'	1943.7	Bladder Pump Installed @ 229 feet
			(SM) Silty SAND, fine grained, moist, light brown		
240			237.0 (SW) Well Graded SAND, fine to coarse grained, little gravel, moist, light gray	1936.7	
			242.0 (SP) Poorly Graded SAND, fine grained, little fines, slightly moist, light gray	1931.7	Blank Casing Silt Sump
250			250.0	1923.7	Bottom Cap Borehole Slough

Bottom of borehole at 250.0 feet.

GENERAL BH / TP / WELL - GINT STD US.GDT - 8/8/16 12:39 - C:\PROGRAM FILES (X86)\GINT\PROJECTS\BADLANDS BH-25.GPJ

Appendix B- Waste Discharge Requirements

B-1 Table of Historical WDR Orders
B-2 Waste Discharge Requirements Order R8-2025-0006
B-3 Waste Discharge Requirements Order R8-2024-0046

Appendix B-1

B-1 Table of Historical WDRs

Order No.	Adopted (Date)	Notes
65-13	06-11-69	Revised per 80-196, 81-124
80-196	12-12-80	
81-124	06-12-81	Rescinded by 91-105
91-105	07-19-91	Amended per 93-57, 94-17, R8-2002-0085, R8-2006-0053
93-57 (B)	09-10-93	Combined w/ 94-17 per 98-99
94-17 (B)	03-11-94	Combined w/ 93-57 per 88-99
98-99 (B)	11-20-98	Amended per R8-2002-0085, R8-2006-0053, R8-2010-0051; rescinded by R8-2020-0046
R8-2002-0085	10-25-02	Amended by R8-2006-0053
R8-2006-0053	07-14-06	Treated Wood Waste
R8-2006-0086	12-01-06	Esperanza Fire Emergency WDR
R8-2010-0051	12-09-10	Allowed Engineered Alternatives for Liner System
98-99 Revised M&RP	10-16-12	Monitoring and Reporting Program
R8-2014-0006	04-25-14	Disposal Nonhazardous/Non-designated Contaminated Soils for Disposal or Beneficial Reuse
R8-2020-0003	05-08-20	Title 27 Discharges to Land
R8-2024-0046	07-26-24	Badlands Landfill Integrated Project (BLIP) Dredge or Fill Materials
R8-2025-0006	06-13-25	Title 27 Discharges to Land

Appendix B

B-2 Waste Discharge Requirement Order R8-2025-0006

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

3737 Main Street, Suite 500
Riverside, CA 92501-3348
(951) 782-4130
Regional Board Website (https://www.waterboards.ca.gov/santaana)

WASTE DISCHARGE REQUIREMENTS

ORDER R8-2025-0006

ORDER INFORMATION

Order Type(s):	Waste Discharge Requirements (WDRs)
Status:	ADOPTED
Program:	Title 27 Discharges to Land
Discharger(s):	Riverside County Department of Waste Resources
Facility:	Badlands Sanitary Landfill
Address:	31125 Ironwood Avenue Moreno Valley, California 92555
County:	Riverside County
GeoTracker ID:	L10003146754

CERTIFICATION

I, JAYNE JOY, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on 13 June 2025.

Jayne Joy
Digitally signed by Jayne Joy
Date: 2025.06.18 12:42:03 -07'00'
Water Boards

JAYNE JOY
Executive Officer

FINDINGS

The Santa Ana Regional Water Quality Control Board (Santa Ana Water Board) hereby finds as follows:

1. **Badlands Sanitary Landfill** – The Riverside County Department of Waste Resources (Discharger) owns and operates the Badlands Sanitary Landfill (the Facility). The Facility is a Class III, nonhazardous municipal solid waste (MSW) landfill that began operations in 1966. The Facility is located at 31125 Ironwood Avenue, within the City of Moreno Valley; Section 31 and all of Section 32, T2S, R2W, and Portions of Sections 4,5, and 6, Township 3 South, Range 2 West, San Bernadino Base and Meridian. The location of the Facility (33.95^{o} N-latitude, -117.12^{o} W-longitude) is shown on **Attachment C-1 – Vicinity Map**.

   The Facility is a landfill consisting of 13 existing, contiguous waste management units (Phase 1 WMUs and Phase 2 Stage 1 WMU). The subject property encompasses 1,262.5 acres, of which 409 acres are currently permitted by the Santa Ana Water Board and the California Department of Resources Recycling and Recovery (CalRecycle) for waste disposal. Of the 409-acre permitted waste disposal area, approximately 38 acres are unlined, 130 acres are lined, and 223 acres are proposed (Phase 2, Stages 2 to 9). WMUs for existing Phase 1 (Canyons 1 through 4) and proposed Phase 2 (Canyons 5 through 6) are shown on **Attachments C-2 and C-3** and summarized in **Table 1**.

2. **Site Capacity and Closure** – The Facility total waste disposal capacity is estimated at 116,700,000 cubic yards. As of March 17, 2022, 29,500,000 cubic yards of site disposal capacity has been used, with a net remaining disposal capacity (in Phase 1) of approximately 4,900,000 cubic yards. Site expansion in Phase 2 (Stages 1 through 9) creates additional disposal capacity of 82,300,000 cubic yards. Based upon these conditions and upon daily tonnage disposal totals within this permitted landfill area, the closure date for the Facility is projected to be July 2059.

Table 1 - Waste Management Units (WMUs)

WMU	Class	Size (Acres)	Lined	Status
Phase 1, Unlined (pre-Title 27 Unit)	Class III	38	Unlined	Operating
Phase 1, C1P1 (pre-Title 27 Unit)	Class III	6.06	Lined (1993)	Operating
Phase 1, C2P1	Class III	3.31	Lined (1995)	Operating
Phase 1, C1P2/C2P2	Class III	6.87	Lined (1996)	Operating
Phase 1, C1P3/C2P3	Class III	7.0	Lined (1997)	Operating
Phase 1, C2P4/C4P1	Class III	4.71	Lined (1998)	Operating
Phase 1, C3P1	Class III	27	Lined (2000)	Operating
Phase 1, C4P2	Class III	21	Lined (2003)	Operating
Phase 1, C4P3	Class III	13.7	Lined (2014)	Operating
Phase 1, C2P5/C3P2	Class III	7.0	Lined (2021)	Operating
Phase 2, Stage 1 (P2S1)	Class III	34	Lined (2025)	Operating
Phase 2, Stage 2 (P2S2)	Class III	36	Proposed (2028)	Proposed
Phase 2, Stage 3 (P2S3)	Class III	22	Proposed (2035)	Proposed
Phase 2, State 4 (P2S4)	Class III	35	Proposed (2034)	Proposed
Phase 2, Stage 5 (P2S5)	Class III	41	Proposed (2041)	Proposed
Phase 2, Stage 6 (P2S6)	Class III	18	Proposed (2044)	Proposed
Phase 2, Stage 7 (P2S7)	Class III	18	Proposed (2046)	Proposed
Phase 2, Stage 8 (P2S8)	Class III	24	Proposed (2047)	Proposed
Phase 2, Stage 9 (P2S9)	Class III	29	Proposed (2051)	Proposed

Regulatory Framework

3. **Regulation of Nonhazardous Municipal Solid Waste (MSW)** – The Facility's WMUs are subject to federal Municipal Solid Waste (MSW) regulations promulgated under the Resource Conservation and Recovery Act (RCRA) (42 U.S.C. section 6901 et seq.). Typically referred to as "Subtitle D," such regulations are now codified as 40 C.F.R. part 258 (Part 258) and implemented in part through the provisions of California Code of Regulations, Title 27 (Title 27) and in accordance with State Water Resources Control Board (State Water Board) Resolution No. 93-62.

4. **Permitting under Waste Discharge Requirements (WDRs)** – Adopted pursuant to Water Code section 13263, subdivision (a), this Order prescribes Waste Discharge Requirements (WDRs) incorporating applicable provisions of Title 27, Part 258 and State Water Board Resolution No. 93-62—particularly with respect to siting, design, construction, operations, drainage and erosion control, water quality monitoring, and when necessary, groundwater remediation (i.e., corrective action).

5. **Facility Waste Discharge Requirements** – The Facility is currently regulated under Waste Discharge Requirements (WDRs) Santa Ana Water Board Order R8-2020-0003, which consolidated and replaces all previous WDRs for the Facility to be consistent with the current federal and State laws and regulations for MSW disposal. The existing WDRs contain discharge requirements, provisions, and monitoring and reporting requirements in accordance with Title 27, for landfill siting, design, construction, operations, drainage and erosion control, water quality monitoring and groundwater remediation, when necessary. Since the adoption of Order R8-2020-0003, changes to existing site operations, permitted waste disposal footprint, and expansion plan, described in Findings 7 and 8 below, necessitate revision of existing waste discharge requirements.

6. **Terms and Acronyms** – Definitions of terms and acronyms used in this Order are included in **Attachments A and B**, respectively. The terms used in this Order are contained in Title 27, section 20150, section 20163, section 20164, and section 20415.

7. **Badlands Landfill Integrated Project (BLIP)** – From 2019 to 2022, the Discharger, as the lead agency, conducted an Initial Study for the Badlands Landfill Integrated Project (BLIP), in compliance with the California Environmental Quality Act (CEQA). The BLIP proposed the following changes to the existing site operations:

    a. Increased the existing maximum allowable daily MSW disposal tonnage from 4,500 tons per day to 5,000 tons per day.

b. Increased the existing site permitted waste disposal area or footprint from 150 acres to 409 acres and the permitted non-disposal, landfill ancillary activity area from 278 acres to 811 acres. The increase in landfill disposal footprint would allow site expansion into Phase 2 (Canyons 5 and 6), as shown in **Attachment C-3**, beyond the existing landfill disposal footprint, Phase 1 (which includes the unlined pre-subtitle D regulation area and lined WMUs from Canyon 1 through 4). Phase 2 expansion in Canyons 5 and 6 will occur in approximately 9 stages, Stages 1 through 9 (from 2025 to 2051), as shown in **Attachment C-3**. The increase in permitted non-disposal, landfill ancillary activity area would allow construction for site entrance improvements and construction of Reduced Cycle Park Stockpiles (RCPS 1 through 3) and Eastern Stockpile (Sub-Canyon Stockpile) during Phase 2 expansion.

c. Add a greenwaste composting facility, Badlands Compost Facility, to site operations. The Badlands Compost Facility is scheduled for construction in Fall 2025.

8. On April 12, 2022, the Discharger adopted a mitigated Negative Declaration, Environmental Assessment (EA) 2017-03 for the BLIP. Subsequently, the Discharger prepared and submitted Joint Technical Document (JTD) No. 11 (Report of Disposal Site Information) and JTD No. 12 (Preliminary Closure/Post-Closure Maintenance Plan) in May 2022 and its amendment, JTD No. 13 (Amendment to JTD No. 11) in June 2024 to incorporate the BLIP components. JTD Nos. 11, 12, and 13 have been accepted and approved by CalRecycle, Riverside County Local Enforcement Agency and the Santa Ana Water Board.

9. On August 3, 2023, the Badlands Compost Facility was enrolled as a Tier 1 facility under the statewide General Order, Order WQ 2015-0121-DWQ, as amended by Order WQ 2020-0012-DWQ, General Waste Discharge Requirements for Commercial Composting Operations.

10. On July 26, 2024 the Santa Ana Water Board adopted Order R8-2024-0046, for the discharge of fill materials to Waters of the State as part of the following BLIP activities at the Facility:

a. expansion of P2S1 through P2S3;

b. site entrance Improvements;

c. construction of the Cycle Park Stockpiles; and

d. construction of the Eastern Stockpile.

Order R8-2024-0046 prescribes discharge, monitoring, and reporting requirements for the discharge of fill materials to Waters of the State and

implementation of mitigation measures for impacted water bodies. Separate WDRs will be required for any Waters of the State impacted by other BLIP activities, including discharge of fill activities for WMU expansion beyond P2S3. Nothing in this Order shall be construed as amending, superseding or otherwise altering the provisions of Order R8-2024-0046.

11. **Revision of Requirements** – This Order updates and replaces the Facility's previous Title 27 WDRs, Order R8-2020-0003, to incorporate:

    a. changes in site operations and expansion outlined in the BLIP;

    b. the Phase 2 expansion plan and permit coverage for proposed WMUs of Phase 2, Stages 2 through 9; and

    c. changes in nomenclature of the existing Phase 1 (unlined and lined) WMUs to establish consistency with the naming convention for the proposed Phase 2 WMUs.

Waste Acceptance

12. **Waste Classification** – Pursuant to Title 27, section 20200, subdivision (a), wastes are classified based on their risk of impairment to groundwater.

    a. Nonhazardous solid wastes, including MSW, that are classified as Class III wastes are disposed of at Class III landfills

    b. Designated wastes are classified as Class II wastes, and may be disposed of at a Class I, II, or III landfill. Classes II and III landfills are regulated by the Regional Water Boards and California Department of Resources Recycling and Recovery (CalRecycle).

    c. Hazardous wastes are classified as Class I wastes, which are regulated under CCR, Title 22, Division 4.5 by the California Department of Toxic Substances Control (DTSC).

    The Facility's WMUs accept MSW and nonhazardous solid wastes and are classified as Class III MSWLFs.

13. **Waste Sources, Types, and Quantities** – The Facility is currently permitted by CalRecycle to accept a maximum daily tonnage of 5,000 tons per day of MSW from the Cities of Riverside, Moreno Valley, Temecula, Perris, Lake Elsinore, Murrieta, and unincorporated areas of Western Riverside County. The Facility also provides services to Los Angeles, Orange, San Bernardino, and San Diego Counties. Wastes accepted for disposal at the Facility include municipal waste, agricultural waste, inert materials, construction/demolition/renovation waste, tires, empty herbicidal/pesticidal containers, dead animals, gypsum/drywall appliances,

disaster-related debris, nonhazardous high moisture content wastes (HMCW), nonhazardous contaminated soils, treaded woodwaste (TWW), Cathode Ray Tube (CRT) panel glass and designated wastes authorized by the Executive Officer (EO) of the Santa Ana Water Board. The Facility also accepts residual waste from three private transfer stations in western Riverside County, namely, Robert A. Nelson Transfer Station/Materials Recovery Facility, Moreno Valley Transfer Station and Perris Transfer Station.

14. **Designated Waste** – Per Water Code section 13173, a designated waste is defined as either of the following:

    a. Hazardous waste that has been granted a variance from hazardous waste management requirements pursuant to Health & Safety Code section 25143, or

    b. Nonhazardous waste that consists of, or contains, pollutants that, under ambient environmental conditions at a waste management unit, could be released in concentrations exceeding applicable water quality objectives or that could reasonably be expected to affect beneficial uses of the waters of the state as contained in the appropriate state water quality control plan.

15. **Disposal of Designated Wastes** – A nonhazardous waste that might be considered a designate waste, disposed under ambient conditions at a composite-lined unit of a Class III WMU, would not reasonably be expected to release pollutants in concentrations exceeding applicable WQOs and would not be reasonably expected to affect beneficial uses of the waters of the state. Phase 1 lined WMUs, except for C1P1, are equipped and Phase 2 WMUs are required to be equipped with a composite liner system, the design of which is considered equivalent to a Title 27 Class II design. Accordingly, this Order allows the disposal of wastes that might otherwise be considered designated wastes in composite-lined waste management units at the Facility.

16. **Waste Acceptance Program and Contaminated Soils** – Soils contaminated with moderate concentrations of total petroleum hydrocarbons (TPH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), organochlorine pesticides, polychlorinated biphenyls (PCBs), and California Administrative Manual (CAM) metals, are “wastes” as defined in Water Code, section 13050 and are required to be regulated under waste discharge requirements pursuant to Water Code section 13263, subdivision (a). The discharge of such wastes to land for disposal or reuse could affect the quality of the waters of the State if not properly managed. However, land disposal or reuse of contaminated soils at properly engineered and managed MSW landfills is an efficient and economical means of minimizing the impacts to water quality from such discharge of waste.

On August 6, 2015, the EO of the Santa Ana Water Board approved the waste acceptance program (WAP) for disposal and reuse of contaminated soils (Soil WAP) at the Facility in accordance with waste acceptance criteria prescribed in General Order R8-2014-0006. General Order R8-2016-0052 subsequently replaced Order R8-2014-0006 to update or prescribe new acceptance criteria for the disposal of nonhazardous contaminated soils, CRT panel glass, and designated waste, and for the beneficial reuse of contaminated soils and certain waste-derived materials. To comply with the 2016 order, the Soil WAP was updated in May 2017, May 2018, and May 2019. This Order requires the Discharger to update the Soil WAP as needed to incorporate updated regulatory soil screening criteria. This Order supersedes the provisions of General Orders R8-2014-0006 and R8-2016-0052, specifically as applied to the Facility.

17. **Waste-Derived Materials** – Waste-derived materials are waste materials that have been treated, processed, or otherwise re-conditioned so that the material may be beneficially reused for structural, engineering, or other alternative purposes. Waste-derived materials include, but are not limited to, tire-derived aggregate, compost and other green materials, construction and demolition debris fines, and contaminated soils. In accordance with Title 27, section 20686 and section 20690, this Order allows the beneficial reuse of waste-derived materials at the Facility as alternative daily cover (ADC), alternative intermediate cover, final cover foundation layer, liner system operations layer, landfill gas collection trench fill, construction fill, road base, wet weather operation pads and access roads, and soil amendments for erosion control and landscaping. However, this Order requires that beneficial reuse of new waste materials or waste-derived materials, including those prescribed under Title 27, section 20690, subdivision (b), must be evaluated and approved by Santa Ana Water Board staff, on a case-by-case basis for water quality protection.

18. **Treated Wood Waste** – In August 2021, the California Legislature adopted Assembly Bill 332 (AB 332), which allows disposal of treated wood waste at composite-lined units of Class III landfills in California. *Treated wood*, as defined in Health and Safety Code section 25230.1, means wood that has been treated with a chemical preservative for purposes of protecting the wood against attacks from insects, fungi, microorganisms, and other environmental conditions that can lead to decay of the wood, and the chemical preservative is registered pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. section 136 et seq.). Chemicals used to treat wood may include chromated copper arsenate, ammoniacal copper zinc arsenate, or chromated zinc chloride. *Treated wood waste* (TWW) means wood waste that meets the requirements described in Health & Safety Code section 25230.2.

Health & Safety Code section 25230.11 provides that TWW may specifically be authorized by WDRs for disposal at a composite-lined Class II or Class III

MSWLF (i.e., compliant with all Subtitle D regulation effective as of Oct. 9, 1993). MSWLFs that accept TWW are required to comply with all applicable provisions of Health & Safety Code section 25230.11, subdivision (b).

19. **Cathode Ray Tube (CRT) Panel Glass** – In October 2018, the DTSC adopted final regulations allowing the disposal of CRT panel glass at approved landfills, regulated by Regional Water Boards. These final regulations replace the emergency regulations previously adopted in 2014 and 2016. As stated in CCR, Title 22, section 66261.4, subdivision (h), CRT panel glass that meets the disposal criteria specified in Title 22, section 66273.81 is not a hazardous waste, and may be disposed of at a composite-lined waste management unit of a Class III landfill, provided that it is managed in accordance with the standards specified in Title 22, section 66273.73 and section 66273.75.

20. In October 2015, Santa Ana Water Board staff approved the WAP to allow CRT panel glass disposal (CRT WAP) at the Facility. This Order continues to allow the Facility to accept CRT panel glass waste for disposal in accordance with the Facility's CRT WAP and its updates.

21. The Discharger has developed the Waste Acceptance Policy Guide and internal operating procedures to screen, accept, and manage the allowable waste types for disposal at the Facility and other MSW landfills it operates.

Site Background and History

22. **Regional and Site Geology** – The Facility is located on the south-central flank of a range of low hills named "The Badlands" in the northeastern portion of the Peninsular Ranges. The Facility is located approximately 1.2 miles northeast of the San Jacinto fault zone. Deformation associated with movement along the San Jacinto fault zone has uplifted and tilted sedimentary strata to form "The Badlands". Erosion of the uplifted strata has resulted in deeply incised terrain of narrow canyons and ridges with steep-sided hills. The Facility is underlain primarily by the sedimentary bedrock of the San Timoteo Formation (Pliocene and Pleistocene Age). Relatively thin deposits of Holocene age alluvium occur as infilling along the canyon bottoms, and colluvial deposits occur generally along the sides of the canyons. The thickness of alluvium in the area of the Facility is variable, generally ranging from 2 feet to 20 feet. Landslide deposits occur locally in some canyons.

23. **Local Faulting** – Faulting in the Facility footprint and surrounding vicinity was identified as Faults 1,2,3, and 4, as shown in **Figure 1 of Monitoring and Reporting Program R8-2025-0006 (the MRP),** in a 1991 investigation performed by Gary S. Rasmussen & Associates. The investigation concluded that a primary or secondary ground rupture may occur along Fault 1 near the southwestern corner of the Facility during the lifetime of Phase 1 waste disposal area. The Discharger is restricted from developing the landfill within the

southwest corner of the Facility. Faults 2 and 3 are not considered active faults. Additional geologic evaluation of faulting and investigation was conducted by Rasmussen in 2001, primarily to evaluate the presence and state of activity of Fault 4. The investigation concluded that Fault 4 is not considered an active fault.

24. **Regional and Site Hydrogeology** – The San Timoteo Badlands, in which the Facility is located, is not situated within a delineated groundwater basin. The Badlands are bounded principally by two groundwater basins (also known as groundwater management zones in the Basin Plan): San Timoteo to the north, and San Jacinto-Lower Pressure to the South. The San Timoteo groundwater basin is part of the Upper Santa Ana Watershed and the San Jacinto-Lower Pressure groundwater basin is part of the San Jacinto Watershed. Fault 3 affects groundwater flow in the northern portion of the Facility and functions as a groundwater barrier, where groundwater elevations decrease up to 140 feet across the fault. The fault also functions as a groundwater divide, where groundwater flows to the northeast and the south on opposite sides of the fault. North of Fault 3, groundwater flows north, with a hydraulic gradient of approximately 0.02 foot/foot and at a flow rate of approximately 0.054 foot/day. South of Fault 3, groundwater flows south/southwest, with a hydraulic gradient of approximately 0.04 foot/foot at a flow rate of approximately 0.11 foot/day. Groundwater flow directions at the site are shown in **Figure 1 of the MRP**.

25. **Surface Drainage** – Surface water that drains from the Facility is tributary to the San Jacinto River, Reach 4.

26. **Receiving Water Bodies** – Groundwater flow beneath the Facility property is divided by Fault 3. North of Fault 3, groundwater flows north into the San Timoteo Groundwater Management Zone; south of Fault 3, groundwater flows south/southwest into the San Jacinto-Lower Pressure Groundwater Management Zone.

27. **Average Annual Precipitation** – The Facility is in an arid to semi-arid environment. Average annual precipitation from 2009 to 2021 for the site is estimated to be approximately 10.35 inches measured by Riverside County Flood Control and Water Conservation District's Badlands Gage (station #437), located onsite.

28. **Waste Containment System Design** – Title 27, section 20330 and Part 258, stipulate that a WMU waste containment system (WCS) which includes a composite liner of a prescriptive standard design (PSD) must be installed for lateral expansion beyond the October 1993 waste footprint at MSWLFs. This PSD must include, at a minimum, an upper synthetic geomembrane liner that is at least 40-mil (or 60-mil thick if a high-density polyethylene geomembrane liner is used), and a lower component of soil that is at least 2 feet thick with a hydraulic conductivity of no more than (≤) $1x10^{-7}$ centimeters per second (cm/s).

29. **Engineered Alternative Design** – Title 27, section 20080 allows for engineered alternative designs (EADs) to the PSD for a WCS, provided that the performance criteria contained in Part 258.40, subdivisions (a)(1) and (c) and Title 27, section 20080, subdivision (b), are satisfied. In compliance with federal Subtitle D regulations and the existing WDRs, the Discharger has equipped each WMU at the Facility with a WCS for each lateral landfill expansion since October 9, 1993. In accordance with Title 27, section 20080, subdivision (b), the Santa Ana Water Board has approved the following minimum required EADs to the PSD for the base and sideslope liner systems, from bottom up, at the Facility.

Table 2 – Approved Engineered Alternative Designs (EADs)

PSD	EAD B1	EAD B2	EAD B3	EAD SS1
Prepared subgrade	Prepared subgrade	Prepared subgrade	Prepared subgrade	Prepared subgrade
Min. 24-inch (in.) compacted clay liner (CCL, ≤1x10^{-7} centimeter/second, cm/s)	Min. 12-in. low permeability layer (LPL, ≤1x10^{-6} cm/s); Min. 60-mil HDPE (moisture barrier); and Geosynthetic Clay Liner (GCL)	Min. 24-in. CCL	Min. 12-in. LPL; Min. 60-mil HDPE geomembrane (moisture barrier); and GCL	GCL
Min. 60-mil high density polyethylene (HDPE) geomembrane	Min. 60-mil HDPE geomembrane	Min. 60-mil HDPE geomembrane	Min. 60-mil HDPE geomembrane	Min. 60-mil HDPE geomembrane
Cushion geotextile	Min. 12-ounce per square yard (oz/sy) (non-woven needle-punched) cushion geotextile	Min. 12-oz/sy (non-woven needle-punched) cushion geotextile	Min. 12-oz/sy (non-woven needle- punched) cushion geotextile	Min. 16-oz/sy cushion and drainage geotextile
Min. 12-in. leachate collection and removal system (LCRS) drainage layer	Min. 12-in. LCRS drainage layer with hydraulic conductivity ≥1 cm/s (1-in. minus clean gravels with less than 2% fines and no angular or subangular particles > 3/8-in. size)	Min. 9-in. LCRS drainage layer with hydraulic conductivity ≥1 cm/s	Min. 9-in. LCRS drainage layer with hydraulic conductivity ≥1 cm/s	Not applicable
Geotextile filter fabric	Min. 8-oz/sy geotextile filter fabric	Min. 8-oz/sy geotextile filter fabric	Min. 8-oz/sy geotextile filter fabric	Not applicable
Min. 24-in. protective cover soil layer (PCS)	Min. 24-in. PCS (3-in. minus for the lower 12 inches and 6-in. minus for the upper 12 inches)	Min. 24-in. PCS (3-in. minus for the lower 12 inches and 6-in. minus for the upper 12 inches)	Min. 24-in. PCS (3-in. minus for the lower 12 inches and 6-in. minus for the upper 12 inches)	Min. 24-in. PCS (1-in. minus material)

30. Currently, approximately 38 acres of the waste disposal footprint at the Facility (which delineates the pre-Title 27, October 1993 waste footprint) are unlined, approximately 96.3 acres of the waste disposal footprint (Phase 1, Canyons 1 through 4) are lined, 34 acres of P2S1 WMU is lined, and approximately 223 acres of the waste disposal footprint (P2S2 through P2S9) are proposed. In compliance with federal Part 258 (Subtitle D) regulations and the existing WDRs, the Discharger has equipped each WMU, except for C1P1, at the Facility with a WCS for each lateral landfill expansion. The liner system for WMU C1P1 was installed prior to October 9, 1993, the effective date of Subtitle D regulations; therefore, exempted from meeting Subtitle D requirements. The liner systems, from bottom up, installed for Phase 1 and P2S1 WMUs at the Facility are summarized below:

Table 3 – As-Built Liner Systems for WMU Bottoms and Sideslopes

Phase	Date Completed	Planar Area (Acres)	Liner Description (Bottom to Top)
Phase 1, C1P1 (bottom)	1993	6.06	1.5-foot (ft.) thick CCL ($k=1x10^{-7}$ cm/s); Geotextile; Drainage gravel; Geotextile; PCS
Phase 1, C1P1 (sideslope)			6.7-ft. thick CCL; PCS
Phase 1, C2P1 (bottom)	September 1995	3.31	2-ft. thick CCL; 80-mil double-sided, textured HDPE geomembrane: 12-in. thick drainage gravel layer; 8-oz/sy non-woven filter; geotextile; and 2-ft. thick PCS
Phase 1, C2P1 (sideslope)			GCL; 80-mil HDPE geomembrane; 16-oz/sy non-woven geotextile; and 2-ft. thick PCS
Phase 1, C1P2 (sideslope)	April 1996	1.80	6.7-ft. thick CCL; 80-mil HDPE geomembrane; 16-oz/sy non-woven geotextile; and 2-ft. thick PCS
Phase 1, C2P2 (flat bench)	April 1996	5.07	2-ft. thick CCL; 80-mil HDPE geomembrane; Drainage Mat (Geonet); and 2-ft. thick PCS
Phase 1, C2P2 (sideslope)			GCL; 80-mil HDPE geomembrane; 16-oz/sy non-woven geotextile; and 2-ft. thick PCS
Phase 1, C1P3 and C2P3 (sideslope)	May 1997	6.99	GCL; 80-mil thick HDPE geomembrane; 16 oz/sy non-woven geotextile; and 2-ft. thick PCS
Phase 1, C2P4 (sideslope)	August 1998	0.96	GCL; 80-mil thick HDPE geomembrane; 16-oz/sy non-woven geotextile; and 2-ft. thick PCS
Phase 1, C4P1 (bottom)	August 1998	3.75	2-ft. thick CCL; 80-mil double-sided, textured HDPE geomembrane; 12-in. thick drainage gravel layer; 8-oz/sy non-woven filter geotextile; and 2-ft. thick PCS
Phase 1, C4P1 (sideslope)			GCL; 80-mil HDPE geomembrane; 16-oz/sy non-woven geotextile; and 2-ft. thick PCS

Phase	Date Completed	Planar Area (Acres)	Liner Description (Bottom to Top)
Phase 1, C3P1 (bottom)	February 2000	26.97	2-ft thick CCL; 80-mil double-sided, textured HDPE geomembrane; 12-in. thick drainage gravel layer; 8-oz/sy non-woven filter geotextile; and 2-ft. thick PCS
Phase 1, C3P1 (sideslope)			GCL; 80-mil HDPE geomembrane (single-sided, textured, except on the 1st westerly & easterly slopes, double-sided, textured); 16-oz/sy non-woven geotextile; and 2-ft. thick PCS
Phase 1, C4P2 (bottom)	November 2003	21.00	1-ft. thick LPL; 40-mil double-sided, textured HDPE geomembrane; GCL; 60-mil double-sided, textured HDPE geomembrane; 12-in. thick drainage gravel layer; 8-oz/sy non-woven filter geotextile; and 2-ft. thick PCS
Phase 1, C4P2 (sideslope)			GCL; 80-mil single-sided, textured HDPE geomembrane; and 2-ft. thick PCS
Phase 1, C4P2 (1:1 eastern sideslopes)			Shotcrete; 32-oz/sy Geotextile; GCL; 80-mil thick single-sided, textured HDPE geomembrane; and 2-ft. thick PCS
Phase 1, C4P3 (bottom)	November 2014	13.70	2-ft thick CCL; 60-mil double-sided, textured HDPE geomembrane; 12-oz/sy Geotextile; 9-in. thick drainage gravel layer; 8-oz/sy Geotextile; and 2-ft. thick PCS (maximum 3-in. particle size)
Phase 1, C4P3 western slope (non-encapsulated)			GCL; 60-mil thick single-sided, textured HDPE geomembrane; 16-oz/sy Geotextile; and 2-ft. thick PCS (maximum 1-in. particle size)

Phase	Date Completed	Planar Area (Acres)	Liner Description (Bottom to Top)
Phase 1, C4P3 eastern slope (encapsulated)			60-mil double-sided, textured HDPE geomembrane; GCL; 60-mil double-sided, textured HDPE geomembrane; 16-oz/sy Geotextile; and 2-ft. thick PCS (maximum 1-in. particle size)
Phase 1, C2P5 and C3P2 (1.5:1 sideslopes)	April 2021	7.0	Coated GCL; 60-mil single-sided, textured HDPE geomembrane; 16-oz/sy Geotextile; and 2-ft. thick PCS (maximum 1-in. particle size)
Phase 2, Stage 1 (bottom, EAD B2)	February 2025	2.5	24-in. thick CCL (k_{sat} = ≤1 x 10^{-7} cm/s) 60-mil double-sided, textured HDPE Geomembrane 12-oz/sy Non-woven Geotextile 12-in. thick drainage gravel layer 8 oz/sy Geotextile 2-in. thick PCS (3” minus particle size) 12-in thick PCS (6” minus particle size)
Phase 2, Stage 1 (bottom, EAD B3)	February 2025	2.5	12-in. thick LPL (k_{sat} = ≤1 x 10^{-6} cm/s) 60-mil (double-sided, textured HDPE Geomembrane GCL 60-mil double-sided, textured HDPE Geomembrane 12-oz/sy Non-woven Geotextile 12-in. thick drainage gravel layer 8 oz/sy Geotextile 12-in. thick PCS (3” minus particle size) 12-in thick PCS (6” minus particle size)
Phase 2, Stage 1 (sideslope)	February 2025	29	GCL (coated bottom; 40-mil min.) 60-mil single-sided, textured HDPE geomembrane 16-oz/sy Non-woven Geotextile 24-in. thick PCS (1” minus particle size)

31. **Phase 2 WMU Expansion** – The Discharger proposes to use approved engineered alternative designs (EADs) in **Table 2** for waste containment or liner systems for Phase 2 WMU expansion. Liner system construction in P2S1 was completed in February 2025; P2S2 WMU expansion is scheduled for 2028. This Order continues to require the Discharger to submit an amended Report of Waste Discharge for a new or proposed EAD, for approval by the Santa Ana Water Board.

32. **Construction Quality Assurance** – Pursuant to Title 27, sections 20323 and 20324, the Discharger is required to prepare and implement a Construction Quality Assurance Plan (CQA Plan) for all liner system installation projects. This CQA Plan shall describe a CQA program intended to ensure construction of a liner system in conformance with the approved construction documents and design specifications, and to identify and correct any problems or defects associated with the liner system and its construction. The goal of the CQA program is to prevent any potential damage, tears, or other imperfections in the base and side slope liner systems during manufacture, construction, and installation.

33. **Five-Foot Separation Zone** – Title 27, section 20240, subdivision (c) stipulates that there shall be a five-foot separation zone between MSW and the highest anticipated elevation of underlying groundwater. Accordingly, WMU liner designs are required to incorporate subdrain systems beneath liner systems to ensure that a 5-foot zone of separation is maintained between groundwater and the lowest element of the liner system. The depth to groundwater at the Facility is more than 17 feet below ground surface (bgs), thus providing well more than the minimum separation.

34. **Depth to groundwater** varies in the groundwater basins north and south of the Facility. Groundwater can be found very close to the surface in San Timoteo Canyon; in fact, groundwater discharges to the surface have occurred in the past. In the broad alluvial valleys north and south of the Facility, depth to groundwater ranges on the order of 100 or more feet bgs. In the Badlands, particularly along the ridge crests, depth to groundwater can exceed 400 feet bgs. Within the canyon, depth to groundwater has been measured as shallow as 17 feet bgs.

35. **Environmental Control Systems** – Existing environmental control systems at the Facility include a leachate collection and removal system (LCRS), landfill gas (LFG) extraction and collection system, landfill gas condensate collection and conveyance system, leachate and condensate containment systems, perimeter gas probe monitoring system, and groundwater monitoring well network.

36. **Leachate Collection and Removal System** – The existing LCRS for Phase 1 consists of a network of high-density perforated and non-perforated polyethylene collection pipes installed within the LCRS drainage gravel layer sitting above the

canyon floor composite liner system, draining by gravity from Phase 1, C1P1 and terminating at the lowest elevation point at Phase 1, C4P3. The lowest point is designed as a leachate sump, where the leachate is temporarily collected, pumped, and stored in one of the three, 10,000-gallon aboveground storage tanks, equipped with a secondary containment system. Leachate is used for dust control over the composite-lined WMUs at the Facility. The proposed LCRS for Phase 2 will be designed similarly to gravity-drain, collect, and convey leachate from Stages 1 through 9 by way of two collection systems (East and West LCRS) to sumps, pumps, and be stored in above-ground leachate tanks for dust control use over lined WMUs.

37. **Landfill Gas Extraction and Collection System** –The LFG extraction and collection at the Facility officially began in January 2001. The collection system consists of vertical collection wells in the unlined WMU and a combination of vertical and horizontal collection wells in the lined WMUs. The current gas collection system consists of 68 active vertical wells, 54 active horizontal wells, and 20 horizontal inactive wells that are connected to the gas collection system. Additional gas extraction wells and perimeter gas monitoring probes will be installed as the Facility expands.

38. **Landfill Gas Condensate Collection** – Gas condensate collected and removed are diverted to one of the three above-ground 10,000-gallon storage tanks, equipped with a secondary containment system at the Facility. Gas condensate collected at the Facility is used for dust control over the composite-lined WMUs.

Monitoring

39. **Water Quality Protection Standard** – A Water Quality Protection Standard (WQPS) is the analytical framework through which WMUs are individually monitored for releases and impacts to water quality. (Title 27, section 20390, subdivision (a).) Under Title 27, a WQPS is ordinarily separately established for each WMU in WDRs, though contiguous WMUs may be monitored together. (*Id*.) In accordance with Title 27, this Order, by virtue of its incorporation of **the MRP** and subsequent revisions thereto (collectively referred to as the operative MRP), establishes a WQPS for each WMU at the Facility.

40. **Groundwater Monitoring** – Pursuant to Title 27, section 20385, the Discharger is required to perform monitoring for each WMU at the Facility. The Discharger has been conducting water quality monitoring since 1989. Currently, the Discharger is implementing a groundwater Detection Monitoring Program (DMP) at the Facility in accordance with Title 27, section 20385, subdivision (a)(1) and section 20420, and the operative MRP. The following wells are currently sampled semi-annually and measured quarterly to obtain groundwater levels as part of the DMP at the Facility: BL-03, BD-04, BH-11, BH-21, BH-22, BH-23, BH-24, and BH-25. Two additional wells BH-20 and BH-CP, are monitored quarterly to obtain groundwater level measurements only. These groundwater monitoring wells or

points are depicted in **Figure 1 of the operative MRP.** As WMU expansion progresses in Phase 2, additional groundwater monitoring wells will be installed to comply with Title 27, section 20415.

41. **Presence of Known Contamination** – At the Facility, volatile organic compounds (VOCs) such as acetone, 2-butanone (MEK), chloroform, and tetrachloroethene (PCE) had been detected in several groundwater monitoring wells in 1995, 2001, 2003, and 2004. Further analyses of the data showed that these indications of release were attributable to well installation/development or laboratory contamination. Since it was concluded that the detections of VOCs at the Facility were not attributable to the landfill operations, the Facility remains in detection monitoring in accordance with Title 27, section 20420.

42. **Vadose Zone Monitoring** – Pursuant to section 20415, subdivision (d) of Title 27, the Discharger is required to establish a monitoring system for the unsaturated zone (vadose zone) for each WMU at the Facility. Currently, the Discharger monitors the vadose zone at the Facility through soil-pore gas probes on-site. (See MRP, **Table 2** and **Figure 1** herein.) As part of the monitoring program for the Facility, the Discharger is required to continue monitoring these soil-pore gas probes for methane, oxygen, and carbon dioxide in the field in accordance with SCAQMD Rule 1150.1 and collect soil gas samples for VOC analysis semi-annually. Data generated from these monitoring activities will be evaluated and used for advising groundwater monitoring activities.

43. **Leachate and Landfill Gas Condensate Monitoring** – It is generally understood that there is a connection between groundwater contamination and the contaminants in landfill leachate and landfill gas condensate. Consequently, constituents detected in leachate and gas condensate are considered potential threats to water quality upon release from the Facility. Based upon this connection, the Discharger has been monitoring and will continue to be required to monitor landfill leachate and gas condensate at monitoring points as shown in **Table 2 of the operative MRP**. The requirements for monitoring frequency and the analytical constituents are specified in the operative MRP. Results from these monitoring activities are evaluated and utilized as specified in the operative MRP to direct groundwater monitoring activities.

Other

44. **Drainage and Erosion Control** – Surface drainage control facilities at the Facility are designed, constructed, and maintained to collect and divert rainfall runoff resulting from a 100-year, 24-hour frequency storm event. The Facility's drainage control system is designed to divert run-on away from the WMUs and route onsite surface runoff away from the WMUs. Onsite drainage is controlled by lateral sheet flow and by intercepting berms and benches. Sheet flow erosion is minimized by reducing velocity and discharge using a shallow gradient on top deck areas and by limiting the size of runoff areas as much as possible. Benches

intercept sheet flow runoff from side slopes to prevent excessive erosion. Runoff on benches is directed to downdrains, drainage channels, and culverts that lead to sedimentation basins. Vegetation and shredded greenwaste mulch are examples of erosion control measures applied on sideslopes at the Facility.

45. **Daily and Intermediate Cover Materials** – The Facility utilizes a minimum of 6 inches of compacted soil as daily cover material and approved alternative daily cover (ADC) materials, which include geosynthetic blankets or high tensile strength polyester tarps coated with high density polyethylene (HDPE) and processed green material, at the end of each working day. A layer of at least 12 inches of compacted intermediate soil cover is placed on all landfill surfaces where no additional refuse will be deposited within 180 days.

46. **Post-Closure Land Use** – The proposed post-closure land use has not been determined at this time. However, any post-closure land use would have to be compatible with the protection of the closed facility and the environment from landfill releases. This will be addressed in the final site closure and post-closure maintenance plans, at which the Discharger will conduct an environmental study to comply with the California Environmental Quality Act (CEQA). The Facility is currently estimated to close in July 2059.

47. **Preliminary Closure and Post-Closure Maintenance Plans** – Title 27, section 21769, subdivision (b)(1) requires the Discharger to prepare a preliminary closure and post-closure maintenance plan for the Facility to enable development of a reasonable estimate of the maximum costs expected for a third party to close the Facility and to implement the first thirty years of post-closure maintenance. In its Report of Disposal Site Information (JTD No. 11), dated June 2022, the Discharger included the Preliminary Closure and Post-closure Maintenance Plan (JTD No. 12). The Facility is estimated to close in July 2059. The Discharger plans to close the Facility as a single WMU and is proposing a monolithic final cover (a 4-foot cover on top deck and a 3-foot cover on sidelslopes), an engineered alternative design closure cover. The Facility will remain an open space after site closure. In addition, the Discharger included a cost estimate in JTD No. 12 for implementing these plans.

48. The Discharger has indicated in its Preliminary Closure & Post-closure Maintenance Plan that after completion of site closure construction, it will file with the Recorder of the Riverside County that the future use of the Facility is restricted in accordance with its Post-closure Maintenance Plan (PCMP), including any other post-closure land use alternatives approved in writing by the responsible regulatory agencies. In addition, deed notation shall be added to property profile to include, in perpetuity, a notation advising any potential purchaser of the property that:

    a. The parcels have been used as an MSW landfill;

b. Unless other post-closure land use alternative(s) are approved via a JTD Addendum by CalRecycle and the Santa Ana Water Board, the land use options for the parcel are restricted in accordance with the post-closure land uses set forth in the PCMP; and

c. If the Discharger defaults in carrying out either the PCMP or any corrective action needed to address a release, the responsibility for carrying out such work falls to the property owner, if other than the Discharger.

49. **Financial Assurance** – Title 27, sections 22207 and 22212 require that the Discharger establish a fund (financial assurance) to ensure implementation of the closure and post-closure maintenance plans. In JTD No. 12, the Discharger provided documentation demonstrating the establishment and maintenance of an enterprise fund for implementing the subject plans.

50. **Implementation of Water Quality Control Plan** – Water Code section 13263, subdivision (a) requires that waste discharge requirements implement relevant water quality control plans. The requirements contained herein are intended to assure compliance with the Water Quality Control Plan for the Santa Ana River Basin (Basin Plan), including water quality objectives (WQOs) and beneficial uses.

51. **Santa Ana Region Basin Plan** – The Santa Ana Water Board adopted a revised Basin Plan that became effective on January 24, 1995. The Basin Plan specifies beneficial uses and water quality objectives for waters in the Santa Ana Region. The water quality objectives and the groundwater basin boundaries, now known as groundwater management zones, were updated in February 2016.

52. **Industrial General Storm Water Permit** – Stormwater discharges from the Facility are regulated by the General Permit for Storm Water Discharges Associated with Industrial Activities (Industrial General Permit or IGP), Order No. 2014-0057-DWQ, as amended by Order No. 2015-0122-DWQ, and the 2018 Amendment documents (NPDES Permit No. CAS000001). Construction activities associated with landfill operations, maintenance, improvement, or development projects (such as expansion) at the Facility are also covered under the IGP. The Discharger has enrolled the Facility under the IGP (WDID 8 33I000634) for stormwater discharges from the site.

53. **Public Notification** – The Santa Ana Water Board has notified the Discharger and interested agencies and persons of the Santa Ana Water Board's intent to update the existing waste discharge requirements and has provided them with an opportunity to submit their written views and recommendations.

54. **Assembly Bill 2108** – Water Code section 13149.2 subdivision (d) requires that the Santa Ana Water Board, “[w]hen issuing … individual [WDRs] … that

regulate activity or a facility that my impact a disadvantaged[1] or tribal[2] community, and that includes a time schedule in accordance with subdivision (c) of section 13263 for achieving an applicable [WQO], an alternative compliance path that allows time to come into compliance with [WQOs], or a water quality variance…," must include finding(s) regarding "potential environmental justice, tribal impact, and racial equity considerations" that are relevant to the permitting action. This Order does not incorporate a time schedule for compliance with applicable WQOs, or any of the other provisions described in Water Code section 13149.2, subdivision (d). Accordingly, no additional findings are necessary per section 13149.2.

55. **Public Hearing** – The Santa Ana Water Board, in a public meeting, heard and considered all comments pertaining to updating the existing WDRs for the Facility.

56. **California Environmental Quality Act (CEQA)** – On April 12, 2022, the Discharger, as the lead agency under the CEQA (Pub. Resources Code, § 21000 et seq.), conducted an Initial Study and adopted an MND, EA 2017-03 (State Clearinghouse No. 201049142), for the BLIP. The lead agency filed a Notice of Determination with the County Clerk at County of Riverside on April 12, 2022.

The Santa Ana Water Board is a responsible agency under the CEQA for the purposes of issuing this Order. As a responsible agency, the Santa Ana Water Board is "responsible for considering only the effects of those activities involved in a project which it is required by law to carry out or approve." (Pub. Resources Code, section 21002.1, subdivision (d).) In approving this Order, the Santa Ana Water Board has considered the MND adopted by the Discharger and subsequent information provided by the Discharger. The Santa Ana Water Board finds that compliance with the mitigation measures of the MND and waste discharge requirements in this Order will reduce potentially adverse impacts to water quality to a less than significant level and protect beneficial uses of receiving waters.

57. **Antidegradation Policy**—The State Water Board's *Statement of Policy with Respect to Maintaining High Quality Waters in California*, Resolution 68-16

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[1] For the purposes of this requirement, a "disadvantaged community" is defined as a "community in which the median household income is less than 80 percent of the statewide annual median household income level." (Wat. Code section 13149.2, subd. (f)(1).)

[2] For the purposes of this requirement, a "tribal community" is defined as a "community within a federally recognized California Native American tribe or non-federally recognized Native American tribe on the contact list maintained by the Native American Heritage Commission for the purposes of Chapter 905 of the Statutes of 2004." (Wat. Code section 13149.2, subd. (f)(2).)

(*Antidegradation Policy*) prohibits the Santa Ana Water Board from authorizing degradation of "high quality waters" unless it is shown that such degradation: (1) will be consistent with the maximum benefit to the people of California; (2) will not unreasonably affect beneficial uses, or otherwise result in water quality less than as prescribed in applicable policies; and (3) is minimized through the discharger's best practicable treatment or control.

Consistent with Title 27, this Order requires the Discharger to maintain the Facility to contain waste within WMUs, thereby preventing degradation of water quality. To the extent that there are releases from WMUs, the Discharger will be required to address such releases through a Corrective Action Program. (See Title 27, sections 20385, 20415, 20430.) Because this Order does not authorize any degradation in water quality from WMU discharges, it complies with the *Antidegradation Policy*.

Additionally, to the extent that this Order authorizes waste discharges outside the footprint of established WMUs, or otherwise outside of established WCSs (e.g., per the Discharger's approved WAP), no degradation in water quality will occur as a result of such discharges.

58. **Delegation of Authority** – This Order delegates authority to the EO of the Santa Ana Water Board to:

a. Require the Discharger to revise the existing waste acceptance plans or develop a new plan and/or methods and procedures for accepting, monitoring, managing, reusing and/or disposing, and reporting of MSW such as contaminated soils, and new waste materials or waste-derived materials at the Facility in response to newly discovered or developed information and/or regulatory or industrial standards and guidelines.

b. Require additional liner design beyond the minimum design approved to protect water quality based on new information and/or technology available and best industrial practices.

c. Revise the operative MRP to incorporate modifications to the monitoring and reporting requirements for the Facility.

REQUIREMENTS

IT IS HEREBY ORDERED, pursuant to Water Code sections 13263 and 13267: that WDR Order R8-2020-0003 is rescinded (except for enforcement purposes); and that the Discharger shall comply with the following requirements. Additionally, this Order shall supersede the provisions of Orders R8-2014-0006 and R8-2016-0052, as specifically applied to this Facility.

A. Discharge Specifications

1. **Control of Wastes** – All wastes shall be maintained on property owned or controlled by the Discharger.

2. **Groundwater** – Waste discharges at the Facility shall not cause or contribute to the contamination or pollution of groundwater, as indicated by the most appropriate statistical or non-statistical data analysis and retest methods.

3. **Acceptable Waste** – Waste disposed to WMUs at the Facility shall be limited to MSW, nonhazardous solid waste, liquids or semi-solid waste, nonhazardous contaminated soils, incinerator ash, inert solid wastes, treated wood waste, and designated wastes. CRT panel glass constitutes a nonhazardous solid waste, provided that it is managed according to a plan approved by the EO. Wastes meeting the following conditions shall be accepted for disposal at the Facility:

    a. **MSW** - MSW is defined in Title 27, section 20164 and Part 258.2 as household waste.

    b. **Nonhazardous Solid Waste** – Nonhazardous solid waste, as defined under Title 27, section 20220, subdivision (a), means all putrescible and non-putrescible solid, semi-solid and liquid wastes, including garbage, trash, refuse, paper, rubbish, ashes, industrial wastes, demolition and construction wastes, abandoned vehicles and parts thereof, discarded home and industrial appliances, manure, vegetable or animal solid and semi-solid wastes, and other discarded wastes (whether of solid or semi-solid consistency), provided that such wastes do not contain wastes which must be managed as hazardous wastes or wastes that could cause degradation of waters of the state.

    c. **Liquids or Semi-Solid Waste** – Liquids or semi-solid waste (i.e. waste containing less than 50 percent solids, by weight or high moisture content waste), including sewage treatment plant grit and screening residues, dewatered sewage sludge, water treatment

sludge, provided that the criteria in Title 27, section 20200, subdivision (d) are met.

d. **Nonhazardous Contaminated Soils** – Nonhazardous contaminated soils meeting waste acceptance criteria in the approved WAP may be accepted for disposal or reuse at the Facility provided that it is accepted, disposed, or reused in accordance with Section A.4 below.

e. **Incinerator ash** – Incinerator ash may be accepted unless DTSC determines that the waste must be managed as hazardous waste. Incinerator ash shall be managed to prevent the discharge of any soluble pollutants at concentrations in excess of applicable water quality objectives.

f. **Inert Waste** – Inert waste, as defined in Title 27, section 20230, means that subset of solid waste that does not contain hazardous waste or soluble pollutants at concentrations in excess of applicable water quality objectives, and does not contain significant quantities of organic, putrescible, or decomposable waste.

g. **Treated Wood Waste** – Treated Wood Waste (TWW) may be accepted for disposal at the Facility, provided that it is managed and disposed of in accordance with the conditions and requirements stated in Health & Safety Code section 25230.11. If monitoring at a composite-lined WMU that has received TWW indicates a release, the disposal of TWW to that WMU shall immediately cease until corrective action, implementing the requirements of Title 27, section 20385, results in cessation of the release.

h. **Cathode Ray Tube (CRT) Panel Glass** – CRT panel glass is a nonhazardous waste and may be accepted for disposal at the Facility provided that it is managed in accordance with Title 22.

i. **Designated Waste** – Acceptance of designated wastes for disposal at the Facility shall be evaluated and approved by the EO of the Santa Ana Water Board on a case-by-case basis. A designated waste that meets the following criteria, as defined in Water Code section 13173, that are approved by the EO of the Santa Ana Water Board may be authorized for disposal at all composite-lined WMUs, except for Phase 1, Unlined and C1P1 WMUs:

   i. **DTSC Variance** – The waste has been granted a variance by the DTSC for disposal at a composite-lined unit of the

Facility, and the Discharger has developed procedures for acceptance, management, and disposal of the waste. To satisfy this requirement, the Discharger shall provide satisfactory documentation that establishes necessary acceptance, management and disposal procedures for disposal of the proposed designated waste; or

ii. **Satisfactory Documentation for Soluble Pollutants** – The waste shall not release soluble pollutants in concentrations exceeding applicable water quality objectives in groundwater. To satisfy this requirement, the Discharger shall provide satisfactory documentation demonstrating compliance with Title 27, section 20200, subdivision (a).

4. **Waste Acceptance Program (WAP) for Disposal or Reuse of Contaminated Soils** – The Discharger shall continue to implement its Waste Acceptance Program (WAP) for contaminated soils as approved by the Santa Ana Water Board's EO to continue accepting, managing, and disposing of contaminated soils at the Facility within composite-lined WMUs. Contaminated soils meeting the soil reuse criteria in the WAP may be used within the Facility permitted limit. The WAP and associated programs and plans shall be updated, when deemed necessary by the EO, to address new information, regulations, and guidance documents for best management practices in waste acceptance, management, disposal, reuse, and monitoring in achieving compliance with requirements in this Order. The WAP for contaminated soils may be incorporated into a landfill-specific WAP that encompasses acceptance criteria for various other types of waste materials.

5. **Waste-Derived Materials** – Nonhazardous waste-derived materials may be accepted at the Facility for onsite reuse provided that the following requirements are met:

a. **Case-by-Case Approval of Waste-derived Material Reuse** – The beneficial reuse of waste materials or waste-derived materials at the Facility, excluding contaminated soils, shall be evaluated and approved by Santa Ana Water Board staff on a case-by-case basis.

b. **Interim Cover** – For use as interim cover (which includes daily cover and intermediate cover), waste-derived materials shall be designed, managed, and constructed to minimize percolation of liquids through waste as required under Title 27, section 20705, subdivision (b).

c. **Limitations for Use as Cover Materials** – Waste-derived materials used for interim cover shall meet the requirements in Title

27, section 20705, subdivision (e) to minimize pollutant discharge to waters of the state.

d. **Demonstration or Justification** – For any proposals to use a waste-derived material as an interim cover, the Discharger shall complete either of the following:

i. Perform a demonstration with the proposed materials for use as an alternative cover and submit a performance evaluation report for approval by Santa Ana Water Board staff; or

ii. Provide satisfactory documentation and justification for use of proposed materials as an alternative cover for review and approval by Santa Ana Water Board staff.

6. **Disposal and Usage of Onsite Liquids** – The discharge of onsite liquids, including extracted groundwater, leachate, landfill gas condensate, and wastewater, or their use for dust control or irrigation at the Facility shall meet the following conditions:

a. The liquids that are being returned to, or reused at, the Facility originated at the Facility;

b. The portion of the Facility to which these liquids are discharged is equipped with a composite liner and leachate collection and removal systems or approved equivalent;

c. The liquids are reused and/or disposed of in accordance with a disposal and management plan approved by the EO of the Santa Ana Water Board; and

d. Restrictions under this section shall not apply to extracted groundwater, leachate, landfill gas condensate, or wastewater generated from landfill operations or other industrial activities at the Facility that is regulated or waived under a separate order or treated in accordance with a plan approved by the EO of the Santa Ana Water Board prior to being used for dust control, recharge, irrigation, or any other beneficial uses over areas beyond the landfill waste footprint at the Facility.

B. Discharge Prohibitions

1. **General** – The treatment or disposal of wastes at the Facility shall not contribute to, cause, or threaten to cause a condition of contamination, pollution, or nuisance, as defined in the Water Code section 13050.

2. **Discharge Within Existing WMUs** – The discharge of waste to any area of the Facility beyond the existing WMUs is prohibited unless such discharge is to an area equipped with a WCS in compliance with Section C.4 of this Order.

3. **Hazardous Waste Prohibition** – The discharge of hazardous waste as defined under the state hazardous waste regulations (Title 22, section 66261.3 et seq) at the Facility is prohibited.

4. **Discharges to Unlined or Non-composite lined WMUs** – TWW and other Designated Waste shall not be discharged to Unlined pre-Title 27 WMU and Phase 1, C1P1 WMU.

5. **Discharge of Pollutants into Waters of the State** – Operations and activities at the Facility shall not cause a discharge of pollutants into waters of the United States, including wetlands, that violates any requirements of the Clean Water Act, including, but not limited to, the National Pollutant Discharge Elimination System (NPDES) requirements, pursuant to Title IV section 402. Further, the discharge of wastes at the Facility shall neither cause nor contribute to any surface water contamination, pollution, or nuisance, including, but not limited to:

    a. Floating, suspended, or deposited macroscopic particulate matter or foam;

    b. Increases in bottom deposits or aquatic growth;

    c. An adverse change in temperature, turbidity, or apparent color change beyond natural background levels and occurrences;

    d. The creation or contribution of visible, floating, suspended, or deposited oil or any other products of petroleum origin; and

    e. The introduction or increase in concentration of toxic or other pollutants/contaminants resulting in unreasonable impairment of beneficial uses of the waters of the State.

6. **Liquids Restrictions** – The discharge of bulk, noncontainerized liquid waste[3], except those allowed under Part 258.28, at the Facility is prohibited.

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[3] Liquid waste means any waste material that is determined to contain “free liquids” as defined by Method 9095B (Paint Filter Liquids Test), included in “Test Methods for Evaluating Solid Waste, Physical/Chemical Methods” (EPA Publication SW-846).

7. **Prohibition of Radioactive Waste** – No radioactive waste, including low level radioactive waste, as defined by the agency with jurisdictional authority, shall be disposed of at the Facility.

8. **Medical and Similar Wastes** – No infectious materials or medical or laboratory wastes, except those authorized for disposal to land by official agencies charged with control of plant, animal and human diseases shall be disposed of at the Facility.

C. Provisions

1. **Compliance with Monitoring and Reporting Program** – The Discharger shall comply with the concurrently-adopted Monitoring and Reporting Program (**MRP**), or in the event that a Revised MRP is subsequently issued by the Santa Ana Water Board EO, the provisions of the Revised MRP. For the purposes of these requirements, the MRP or Revised MRP with which the Discharger must comply shall be referred to as the "operative MRP."

2. **Maintain Copy of This Order** – The Discharger shall maintain a copy of this Order and the operative MRP at the Facility and make it available at all times to landfill operating personnel.

3. **Santa Ana Water Board Access** – The Discharger shall permit Santa Ana Water Board staff:

   a. Entry upon premises where a discharge source is located;

   b. To copy any records required to be kept under terms and conditions of this Order;

   c. To photograph or create video recordings of any structures, facilities, activities, or other phenomena that could result in adverse impacts to water quality and that are pertinent to compliance of the Facility with this Order; and

   d. To sample any discharge from the Facility.

4. **Waste Containment System (WCS)** – All WMUs shall be equipped with a waste containment or liner system that is designed, constructed, and managed in accordance with the standard of the industry, and that meets the requirements of State Water Board Resolution 93-62, Section III [Containment] and the following, but not limited to, relevant sections of Title 27 and subsequent revisions to these sections thereof:

   a. section 20310 [General Construction Criteria];

b. section 20320 [General Criteria for Containment Structures];

c. section 20323 [CQA Plan];

d. section 20324 [CQA requirements];

e. section 20330 [Liners];

f. section 20340 [Leachate Collection and Removal Systems (LCRS)];

g. section 20360 [Subsurface Barriers];

h. section 20365 [Precipitation and Drainage Controls];

i. section 20370 [Seismic Design]; and

j. section 21750, subdivision (f)(5) [Stability Analysis].

5. **Engineered Alternative Liner Design (EAD)** – An EAD that satisfies the performance criteria contained in Part 258.40, subdivisions (a)(1) and (c), and in Title 27, section 20080, subdivision (b), may be allowed where the performance of the alternative composite liner's components, in combination, equal or exceed the waste containment capability of the prescriptive system design (PSD). The Discharger has proposed, and the Santa Ana Water Board has approved the EADs for the base and sideslope liner systems, described in **Table 2** of this Order. The approved EAD is minimum design requirements; the Executive Officer of the Santa Ana Water Board may require additional liner design components beyond the minimum approved as new information, technology, or industrial best standard practices are discovered and/or new regulatory standards and guidelines are developed for effective waste containment.

6. **Approved EADs** – For each phase of liner system construction using approved EADs, the following shall apply:

a. At least 90 days prior to the scheduled WCS construction for each WMU expansion at the Facility, the Discharger shall submit technical design plans and construction documents for the proposed WCS that demonstrate compliance with Section C.4, above, for review and approval by Santa Ana Water Board staff.

b. Each phase of construction at the Facility shall be completed in accordance with the approved design and construction documents. Any liner system design or construction variance from the approved

documents must be approved by Santa Ana Water Board staff prior to implementation;

c. All mitigation measures proposed by the Discharger and approved by Santa Ana Water Board staff shall be implemented to protect water quality;

d. The Discharger and its contractors shall submit progress reports daily to Santa Ana Water Board staff during construction so that compliance with Section C.6.b., above, can be evaluated. Daily reports, including conformance testing data and relevant construction activities, shall be submitted in accordance with the criteria set forth in the applicable CQA Plan and design and construction plans;

e. The Discharger and its contractors shall submit look-ahead schedules weekly to Santa Ana Water Board staff during construction so that compliance and work progress can be tracked and evaluated. During construction, look-ahead schedules shall be submitted weekly in accordance with the criteria set forth in the applicable CQA Plan and design and construction plans, and shall delineate specific portions and areas of construction and include estimates of work progress for at least the three subsequent weeks;

f. Following completion of liner installation and construction activities and within a reasonable time approved by Santa Ana Water Board staff, the Discharger shall submit a final as-built report including, at a minimum: as-built drawings; maps; CQA/CQC field reports and testing data; a discussion on deviations from approved plans, and certification; and

g. If an approved EAD fails to perform as expected, the EO may require additional protective measures.

7. **New EAD Proposed** – In accordance with Title 27, section 21585, subdivision (a)(4), the Discharger shall submit an amended ROWD, in the form of a numerically-sequential addendum to the JTD, for any new EAD proposed for WCS at the Facility. A JTD addendum for any new EAD(s) shall demonstrate compliance with the performance criteria specified under Part 258.40, subdivisions (a)(1) and (c), and Title 27, section 20080, subdivision (b). Upon review of the amended ROWD by Santa Ana Water Board staff and approval of the newly proposed EAD(s) by the Santa Ana Water Board, the Discharger shall be permitted to use the newly approved EAD(s) for WCS construction at the Facility.

8. **LCRS Performance Testing** – In accordance with Title 27, section 20340, subdivision (d), the Discharger shall perform periodic testing of the LCRS to demonstrate its efficiency during the operational, closure, and post-closure maintenance periods of the Facility.

9. **Operating Record** – The Discharger shall maintain an operating record for the Facility in accordance with Part 258.29, subdivision (a). All records of landfill operations, construction, inspection, monitoring, remediation, and copies of design plans, CQA/QC documents, monitoring reports, and technical reports that are submitted to regulatory agencies, shall be included in the operating record.

10. **Disposal Site Operations** – The operation at the Facility shall not cause a discharge of pollutants into waters of the United States, including wetlands, that violates any requirements of the Clean Water Act, including, but not limited to, the Facility's National Pollutant Discharge Elimination System (NPDES) permits.

11. **Disposal During Expected Precipitation** – During the months when precipitation can be expected, disposal activities shall be confined to the smallest area possible based on operational procedures and the anticipated quantity of wastes that will be received.

12. **Managing Proscribed Waste Disposal** – The Discharger shall remove and properly dispose of any wastes that are placed at the Facility in violation of the requirements in this Order.

13. **Boundary Monuments** – The Discharger shall establish and maintain permanent monuments in California coordinates (or equivalent) to define the boundary of the footprint of the Facility WMUs. The benchmarks shall be certified by a licensed surveyor or a professional civil engineer authorized to practice in California.

14. **Water Use for Operations** – Water used during landfill operations shall be limited to the minimum amount reasonably necessary for dust control, fire suppression, construction, and maintenance.

15. **Managing Wastewater During Precipitation Events** – During periods of precipitation, when the use of wastewater or non-stormwater for dust control, construction, or other landfill operations over the composite-lined WMUs is not necessary, all wastewater collected at the Facility shall be stored or disposed of offsite at a licensed facility.

16. **Expanding Groundwater Monitoring Network** – Prior to the initiation of waste discharge in the approved expansion area phases, the Discharger

shall install an approved, expanded groundwater monitoring network as necessary.

17. **Adequate Cover** – Adequate cover shall be placed over all lifts in each WMU at all times, except for the active face of the landfill, which receives daily cover or an approved ADC at the end of each operating day.

18. **Alternative Daily Cover Use** – Alternative Daily Cover (ADC) may be used consistent with Title 27, section 20690 and the provisions and specifications of this Order.

19. **Placement of Daily Cover** – At the end of each operating day or if landfilling operations cease for more than a 12-hour period, daily cover or an approved ADC must be placed over the active face in a quantity and depth sufficient to prevent any waste from daylighting or as directed by Santa Ana Water Board staff.

20. **Additional Monitoring Devices** – The Discharger shall install any additional groundwater, soil pore liquid, soil pore gas, or leachate monitoring devices determined by the EO of the Santa Ana Water Board to be necessary to comply with this Order.

21. **Expanding Landfill Gas System** – The Discharger shall expand the existing landfill gas collection and recovery system as landfill operations progress to prevent the migration of landfill gas to groundwater and to the environment.

22. **Liquid Waste Containment System Design** – All liquid waste secondary containment structures shall be designed and constructed to provide a minimum containment capacity of 110 percent (110%) of the largest storage tank.

23. **Maintaining Liquid Waste Containment System** – All liquid waste containment structures shall be inspected and maintained periodically to assess their conditions and to initiate correction actions necessary to ensure their effectiveness in preventing commingling of leachate and gas condensate with surface run-on and runoff.

24. **Facility Survey** – The Facility shall be surveyed annually by aerial surveillance or by conventional ground survey by a licensed surveyor, a registered civil engineer, or under the directions of a registered civil engineer to assure compliance with the one percent (1%) slope requirements in Section D.1, below.

25. **Executive Officer Authorization** – In implementing this Order, the Executive Officer of the Santa Ana Water Board may do any of the following, to the fullest extent authorized per Water Code section 13223:

    a. Require, based upon newly discovered or newly developed information and/or regulatory guidelines, that the Discharger revise the existing waste acceptance or management plans or develop new plans and/or methods and procedures for accepting, managing, reusing, disposing, monitoring, and reporting of the materials listed below at the Facility:

        i. Contaminated soils;

        ii. Treated wood waste;

        iii. Designated wastes;

        iv. CRT panel glass;

        v. Incinerator ash;

        vi. Liquid or semi-liquid wastes;

        vii. Waste-derived materials; and

        viii. Onsite wastewater

    b. Approve revised or new waste acceptance and management plans;

    c. Require site investigation and technical reports needed to protect water quality;

    d. Require additional liner design beyond the minimum design approved by the Santa Ana Water Board to protect water quality based on new information and/or technology available and best industrial practices;

    e. Approve new designated waste for disposal at the Facility; and

    f. Revise and incorporate changes to the operative MRP.

D. Drainage and Erosion Control

1. **Site Management for 100-Year, 24-Hour Storm** – WMUs shall be designed, constructed, and maintained to limit, to the greatest extent possible, ponding, infiltration, inundation, erosion, slope failure, and washout which could occur as a result of precipitation from a 100-year, 24-

hour frequency storm. This shall be accomplished by, at a minimum, the following:

a. WMUs shall be designed, constructed, and maintained to achieve compliance with Title 27, section 20365;

b. Top deck surfaces shall be constructed and maintained to achieve a minimum of one percent (1%) slope and to direct flows to downdrains or other drainage control structures;

c. Downdrains or any other necessary drainage diversion structures must be constructed for all sideslopes as necessary; and

d. All components of The Facility drainage system must be designed, constructed, and maintained to withstand site-specific maximum intensity precipitation (peak flow) from a 100-year, 24-hour storm.

2. **Drainage and Erosion Control Measures** – The Discharger shall design, construct, and maintain:

a. A run-on drainage control system to prevent flow from off-site sources onto the disposal areas of the Facility (active or inactive portions), and to collect and divert the peak flow calculated volume resulting from a 100-year, 24-hour frequency storm from off-site sources;

b. A runoff drainage control system to collect and divert the peak flow calculated volume resulting from a 100-year, 24-hour frequency storm away from the WMUs;

c. Drainage control structures to divert natural seepage and to prevent such seepage from entering the WMUs; and

d. Erosion control best management practices to reduce the discharge of pollutants to waters of the state.

3. **Periodic Inspections** – All drainage and erosion control structures shall be periodically inspected and maintained to assess their conditions, to initiate corrective actions necessary to maintain compliance with the requirements of this Order, and to prepare the Facility in advance of each rainy season.

4. **Drawings for New Elements** – The Discharger shall submit as-built drawings within 90 days of completing construction of any new elements of the drainage control system at the Facility.

5. **Registered or Certified Supervision** – All design plans, construction plans, and operation and maintenance plans shall be prepared by, or prepared under the direct supervision of, a registered civil engineer or a certified engineering geologist.

E. Contingency Responses

1. **Liquid Waste Spill and Seep** – The Discharger shall notify Santa Ana Water Board staff by telephone or email within 24 hours (or one business day) upon discovery of any liquid waste spill or seep in the WMU area. A written report shall be filed with Santa Ana Water Board staff within seven days, containing at least the following information:

   a. **Map** – A map showing the location(s) of the discharge(s).

   b. **Flow Rate** – An estimate of the flow rate of the discharge(s).

   c. **Description** – A description of the nature and extent of the discharge(s) (e.g., all pertinent observations and analysis).

   d. **Waste Characterization** – A sample of the spilled liquid waste or seep shall be collected, if possible, and analyzed for constituents in **Tables 3-5, MRP**).

   e. **Corrective Measures** – A description of the corrective measure(s) implemented, and any proposed mitigation measures for approval by Santa Ana Water Board staff.

2. **Facility Failure** – The Discharger shall notify Santa Ana Water Board staff by telephone and/or email within 48 hours (or two business days) of any slope failure or failure of facilities necessary to maintain compliance with the requirements in this Order. Within seven days, the notification shall be submitted in writing to Santa Ana Water Board staff. Any failure that threatens the integrity of the waste containment features of the Facility shall be promptly corrected after a remediation workplan and schedule have been approved by Santa Ana Water Board staff. However, if a slope failure poses an immediate threat to the environment or to any containment structures at the Facility, it shall be corrected without delay.

3. **Special Occurrence** – The Discharger shall notify Santa Ana Water Board staff by telephone and/or email within 48 hours (or two business days) of any special occurrence at the Facility, such as a landfill fire, subsurface fire, an accidental spill etc., necessary to maintain compliance with the requirements in this Order. Within seven days, the notification shall be submitted in writing to Santa Ana Water Board staff. Any failure that threatens the integrity of the waste containment features of the landfill

shall be promptly corrected after a remediation workplan and schedule have been approved by Santa Ana Water Board staff. However, if a slope failure poses an immediate threat to the environment or to any containment structures at the Facility, it shall be corrected without delay.

4. **Measurably Significant Evidence of a Release** – If previously undetected measurably significant evidence of a release, as described in the operative MRP, has tentatively been identified in groundwater at the Facility, the Discharger shall immediately notify the designated Santa Ana Water Board staff by phone and/or email. The Discharger shall also provide written notification within seven days of such determination (Title 27, §20420, subd. (j)(1)) and shall carry out a single discrete retest in accordance with Title 27, section 20415, subdivision (e)(8)(E). The Discharger shall inform Santa Ana Water Board staff of the outcome of the retest as soon as the results are available and submit written results within seven days of receipt of the final retest laboratory report.

5. **Optional Demonstration** – If measurably significant evidence of a release is verified per Section E.4, above, but is believed to be derived from off-site source(s) or due to natural changes in water chemistry, the Discharger may propose to demonstrate that the Facility is not the cause of the release in accordance with Title 27, section 20420, subdivision (k)(7).

6. **Response to Verified Evidence of a Release** – If measurably significant evidence of a release is verified per Section E.4, above, and it is determined that the Facility is the cause of the release, then the Discharger shall:

    a. Implement those response actions described in Title 27, section 20420, subdivision (k);

    b. Implement an Evaluation Monitoring Program (EMP) pursuant to Title 27, section 20425;

    c. Implement a Corrective Action Program (CAP) – If Santa Ana Water Board staff determines that the Discharger has satisfactorily implemented and completed the EMP release response actions described above, the Discharger shall implement a CAP pursuant to Title 27, section 20430, based upon results of the EMP and other monitoring activities; and

    d. Conduct any additional investigations stipulated in writing by Santa Ana Water Board staff for the purpose of identifying the cause of the release.

7. **Release Beyond Facility Boundary** – Any time the Discharger or Santa Ana Water Board staff concludes that a release from the Facility has proceeded beyond the Facility boundary, the Discharger shall notify all persons who either own or reside upon land that directly overlies any part of the contaminant plume (Affected Persons).

   a. **Initial Notice** – Initial notifications to Affected Persons shall be accomplished within 14 days of making this conclusion and shall include a description of the Discharger's current knowledge of the nature and extent of the release.

   b. **Updated Notice** – Subsequent to initial notification, the Discharger shall provide updates to all Affected Persons, including any persons newly affected by a change in the boundary of the release, within 14 days of concluding there has been any material change in the nature or extent of the release.

   c. **Submittal** – Each time the Discharger sends a notification to Affected Persons, the Discharger shall, within seven days of sending such notification, provide Santa Ana Water Board staff with both a copy of the notification and a current mailing list of all Affected Persons.

F. Monitoring, Sampling and Analysis Specifications

1. **Monitoring and Sampling** – All water quality monitoring, sampling, and analysis shall be performed in accordance with Title 27, section 20415 and the operative MRP.

2. **Sampling Period** – For any given monitored medium, samples shall be taken from all monitoring points to satisfy the data analysis requirements. All samples shall be taken during each monitoring period such that semi-annual sampling events are approximately six months apart and shall be taken in a manner that ensures sample independence to the greatest extent feasible, in accordance with Title 27, section 20415, subdivision (e)(12)(B).

3. **Concentration Limits** – The concentration limit for any given Monitoring Constituent in a given monitored medium at the Facility shall be established and maintained in accordance with Title 27, section 20400. These limits are specified in the operative MRP, and are incorporated herein.

4. **Groundwater Surface Elevation** – In accordance with Title 27, section 20415, subdivision (e)(13), the groundwater monitoring program shall include an accurate determination of the groundwater surface elevation at

each well every time groundwater is sampled. Groundwater elevations taken prior to purging the well and sampling for monitoring constituents shall be used to fulfill groundwater monitoring requirements specified in the operative MRP.

5. **Groundwater Flow Rate and Direction** – Groundwater flow rate and direction shall be monitored and reported in accordance with the operative MRP.

6. **Data Analysis** – Data analysis for all monitoring activities shall be carried out as soon as the monitoring data are available, in accordance with Title 27, section 20415, subdivision (e) and the operative MRP.

G. Reporting Requirements

1. **Reporting and Required Reports/Notices** – All technical and monitoring program reports required under this Order and/or the operative MRP, shall be submitted under penalty perjury[4].

2. **Technical Reports** - All technical reports submitted under this Order shall be prepared by, or under the direct supervision of, a licensed civil engineer or engineering geologist (Qualified Professional). For the purposes of this section, a "technical report" is a report incorporating the application of scientific or engineering principles[5]. Each submittal subject to this section shall bear the Qualified Professional's certification.

3. **Information Requests** – The Discharger shall furnish, within a reasonable time, any information the Santa Ana Water Board may request to determine whether cause exists for modifying, reissuing, or terminating this Order. The Discharger shall also furnish to the Santa Ana Water Board, upon request, copies of records that this Order requires the Discharger to maintain.

4. **JTD Addenda** – The Discharger shall file an amended ROWD, in the form of a numerically-sequential addendum to the JTD, in accordance with Title 27, section 21585, subdivision (a)(4), with the Santa Ana Water Board at least 120 days prior to its implementation for:

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[4] Failure or refusal to furnish these reports or the falsifying of any information in a submitted report, is a misdemeanor and may result in the imposition of penalties pursuant to Water Code section 13268.

[5] At a minimum, this category includes all design, construction, and operation and maintenance plans.

a. proposing a new EAD, not already approved by the Santa Ana Water Board;

b. proposing any lateral expansion at the Facility beyond the permitted waste disposal area (409 acres) depicted in **Attachment C-2**;

c. responding to a release from the landfill;

d. making any material change or proposed change in the character, location, volume, treatment, or disposal methods of any discharge of waste; and

e. any change in control or ownership of land or waste discharge facilities.

5. **Certification by Discharger** – Applications, reports or information submitted to the Santa Ana Water Board shall be signed and certified by either a principal executive officer or ranking elected/appointed official of the Discharger.

6. **Planned Facility Changes** – The Discharger shall give advance notice to Santa Ana Water Board staff of any planned changes in permitted activities at the Facility that may result in noncompliance with this Order.

7. **Proposed Change in Ownership or Responsibility** – The Discharger shall notify the Santa Ana Water Board in writing of any proposed change in ownership or responsibility for construction, operation, closure, or post-closure maintenance of the Facility.

8. **Change in Facility Ownership** – In the event of any change in control or ownership of land or waste discharge facilities currently owned or controlled by the Discharger, the Discharger shall notify the succeeding owner or operator of the existence of this Order by letter. A copy of this letter shall be signed by the new owner accepting responsibility for complying with this Order and shall be forwarded to the EO of the Santa Ana Water Board. The notification letter shall be given to the succeeding owner/operator prior to the effective date of the change and shall include a statement by the new Discharger that construction, operation, closure, and post-closure maintenance will follow this Order and any revisions thereof.

9. **Closure and Post-Closure Maintenance Plans (PCMP)** – In accordance with Title 27, section 21780, subdivision (c)(3), final closure and PCMPs for solid waste landfills shall be submitted two years prior to the anticipated date of closure. In lieu of submitting a new or updated preliminary closure and PCMP as part of a SWFP review or revision, the

operator *may* instead submit the final closure and PCMP provided that closure is anticipated to occur within five years of submittal.

10. **Financial Assurance Plans** – The Discharger shall maintain and update assurances of financial responsibility for:

    a. Closure activities pursuant to Title 27, section 22205;

    b. Post-closure maintenance activities pursuant to Title 27, section 22210;

    c. Operating liability pursuant to Title 27, section 22215; and

    d. Corrective action activities pursuant to Title 27, section 22220.

11. **Filing a Deed After Closure** – Upon completing closure at the Facility, the Discharger or the property owner shall file a deed, and amend it thereof as needed, with the County Recorder. The deed must restrict any post-development of the landfill and must include a notation advising any potential purchaser of the property that:

    a. The parcel had been used as an MSW landfill;

    b. The land use options for the parcel are restricted in accordance with the post-closure land uses set forth in the Post-Closure Plan and in WDRs for the landfill; and

    c. If the Discharger defaults on carrying out either the post-closure maintenance plan or any corrective action needed to address a release, then the responsibility for carrying out such work falls to the property owner.

LIST OF ATTACHMENTS

Attachment A Definition of Terms
Attachment B Acronyms
Attachment C Maps/Figures

Monitoring and Reporting Program R8-2025-0006 (separate document)

ENFORCEMENT

If, in the opinion of the Executive Officer, the Dischargers fail to comply with the provisions of this Order, the Executive Officer may refer this matter to the Attorney General for judicial enforcement, may issue a complaint for administrative civil liability,

or may take other enforcement actions. Failure to comply with this Order may result in the assessment of Administrative Civil Liability of up to $10,000 per violation, per day, depending on the violation, pursuant to the Water Code, including section 13268, section 13350, and section 13385. The Santa Ana Water Board reserves its right to take any enforcement actions authorized by law.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Santa Ana Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, Title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board website (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A DEFINITION OF TERMS

"**40 CFR Part 258**" means the regulations under Code of Federal Regulations, Title 40, part 258 (Part 258) that apply to municipal solid waste (MSW) landfills (MSWLFs).

"**Affected Medium**" means any natural medium that consists of or contains waters of the state (e.g., ground water, surface water, or the unsaturated zone) that has been affected by a release from a waste management unit.

"**Affected Persons**" means all people who own, or reside upon, land outside the facility boundary that is underlain by any portion of the release from the Facility. Under Part 258.55, subdivision (g)(l)(iii), the discharger must keep an up-to-date list of all such people and must assure that they are invited to the discussion of proposed corrective action measures, pursuant to Title 40 of the Code of Federal Regulations Part 258.56, subdivision (d).

"**Appendix I Constituents**" in this Order means the suite of 47 volatile organic constituents and 17 metals used as the default monitoring parameter list in Part 258. Appendix I Constituents are included in Table 3 of MRP.

"**Appendix II Constituents**" in this Order means the suite of 213 hazardous constituents used as the default constituent of concern list in Part 258. Appendix II Constituents are included in Tables 3 and 4 of MRP.

"**Background**" means the concentrations or measures of constituents or indicator parameters in water or soil that has not been affected by waste constituents or leachate from the waste management unit being monitored.

"**Background Monitoring Point**" means a well, device, or location specified in the waste discharge requirements at which monitoring for background water quality or background soil quality, not affected by waste disposal activities is conducted.

"**Composite Retest**" means a particular means of validating a preliminary indication of a release, for a given compliance Well/Monitoring Parameter (Well/MPar) pair, whereby the discharger applies an approved data analysis method to two new samples for that Well/MPar pair. The retest validates the preliminary indication if either or both of the retest samples triggers a measurably significant increase indication. The scope of the retest, at any given compliance well, is limited to only those Monitoring Parameters that gave a preliminary indication at that monitoring point. However, all the data obtained from the initial sampling event is considered as part of the comprehensive statistical analysis for subject monitoring period.

"**Title 27**" means the State Water Resources Control Board's regulations, in Division 2 of Title 27 of the California Code of Regulations, applicable to the discharge to land of waste that is not hazardous waste.

"**Concentration Limit**" is a part of the Facility's Water Standard and means the reference background data set, or reference concentration value, for a given constituent against which one compares current compliance well data to identify, in detection mode, the arrival of the release at a given well and to identify, in tracking mode, if the corrective action measures are bringing the Facility back into compliance with the Water Standard.

"**Constituents of Concern (COCs)**" is a part of the Facility's Water Quality Protection Standard and means the list of constituents that could be released from the Facility, including the foreseeable breakdown products of all such constituents. For the ground water medium at a municipal solid waste landfill, this list must include all Appendix II constituents and general minerals. A constituent on this list becomes a Monitoring Parameter only after being detected (at trace level or above) and then verified by a well specific retest in a periodic scan of compliance wells affected by the release.

"**CAP**" means a Corrective Action Program that implements the requirements under Title 27, section 20430.

"**Detect**" when applied to a scan of leachate or ground water, means that the constituent for which the scan is conducted shows up at trace level or higher. For Constituents of Concern and Monitoring Parameters that are rarely detected in background, the term means analyses done using a laboratory analytical method that complies with Title 27, section 20415, subdivision (e)(7).

"**Detection Mode**" for a given compliance well/Monitoring (well/MPar) pair, means a state in which one tests for a measurably significant increase, for that Monitoring Parameter at that well, using an appropriate statistical or non-statistical data analysis method. Once that well/MPar pair exhibits a measurably significant increase (including an initial indication verified by a discrete retest), it is monitored, thereafter, in "tracking mode" until the completion of the proof period, following successful completion of corrective action.

"**Double Quantification (DQ)**" rule is a quasi-statistical rule, defined in the 2009 USEPA Unified Guidance for Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, to address infrequently detected constituents (i.e. constituents detected above the reporting limit in 10% or less of the background data), whereby a confirmed exceedance is registered if a Well/MPar pair in the infrequently detected constituent group exhibits quantified measurements (i.e. at or above the reporting limit) in two consecutive sample events (i.e. the initial sample event and the subsequent resample event).

"**DMP**" means a Detection Monitoring Program that implements the State Water Resources Control Board's requirements, under Title 27, section 20420.

"**EMP**" means an Evaluation Monitoring Program that implements the requirements under Title 27, section 20425. This state program constitutes a steppingstone to a

Corrective Action Program, in response to the Facility's having exhibited a measurably significant increase of a release or to its having exhibited physical evidence of a release [see Title 27, section 20385, subdivision (a)(2)-(3)].

"**Indicator Parameters**" in this Order means a suite of parameters that are considered capable of providing reliable indication of a release from a landfill.

"**Inter-Well Comparison**" means a type of statistical or non-statistical data analysis, applied to a given detection mode compliance Well/MPar pair, in which one compares current concentration data, for that Monitoring Parameter and well, with a suite of background data from the appropriate upgradient well(s) to determine if that Monitoring Parameter has produced a measurably significant increase at that well. Generally speaking, the use of upgradient background data tends to produce higher false-positive and false-negative rates than the intra-well comparison approach, but is appropriate in those cases where it is not feasible to validate that a compliance well's own historical data reflects water quality in the absence of a release.

"**Intra-Well Comparison**" means a type of statistical or non-statistical data analysis, applied to a given detection mode compliance Well/MPar pair, in which one compares current concentration data, for that Monitoring Parameter, with a suite of background data consisting of selected historical data from that same well to determine if that Monitoring Parameter has produced a measurably significant increase at that well.

Typically, the use of a compliance well's own historical data, for a Monitoring Parameter, provides better statistical power (to identify a real release and to avoid producing false-positive indications) than does the inter-well comparison approach, but only in a case where it is reasonable to assume that the compliance well's own historical data does not reflect the presence of a release for that Monitoring Parameter.

“**LFG**” means landfill gas, including any Volatile Organic Compounds (VOCs).

"**MRP**" means the Monitoring and Reporting Program that is concurrently-adopted with the Waste Discharge Requirements (or other order) and that is incorporated by reference by the Waste Discharge Requirements. The **MRP** and subsequent revisions thereto are collectively referred to as the “**operative MRP**.”

"**Matrix Effect**" means any increase in the Method Detection Limit or Practical Quantitation Limit for a given constituent as a res the MRP and subsequent revisions thereto ult of the presence of other constituents, either of natural origin or introduced through a release, that are present in the sample of water or soil-pore gas being analyzed.

"**Measurably Significant Increase**" means a condition in which an appropriate data analysis method shows an initial indication of a release, for a given detection mode compliance well/MPar pair, that is verified by a discrete retest (for that well and Monitoring Parameter).

"**Method Detection Limit (MDL)**" means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte's concentration is greater than zero, as defined in Title 40 of the Code of Federal Regulations Part 136, Appendix B.

"**Monitored Media**" means those water and/or gas-bearing media (if applicable) that are monitored pursuant to a monitoring and reporting program. The monitored media may include: groundwater in the uppermost aquifer or in any other portion of the zone of saturation [section 20164 of Title 27], in which it would be reasonable to anticipate that waste constituents migrating from the Facility could be detected, and in any perched zones underlying the Facility, any bodies of surface water that could be measurably affected by a release, soil-pore liquid beneath and/or adjacent to the Facility, and soil-pore gas beneath and/or adjacent to the Facility.

"**Monitored Natural Attenuation**" means a remedial measure that relies on natural processes to decrease or "attenuate" concentrations of contaminants in soil and groundwater. Monitoring typically involves collecting soil and groundwater samples to analyze them for the presence of contaminants and other landfill-related characteristics. The entire process is called "monitored natural attenuation" or "MNA." Regular monitoring is necessary to ensure that MNA continues to work.

"**Monitoring Parameter (MPar)**" is a part of the Facility's Water Quality Protection Standard (WQPS) and means a list consisting of those constituents that are likely to be present or present at a detectable level in ground or surface water. This is the subset of the Constituents of Concern (COCs) that is subject to testing for a measurably significant increase, in detection mode, at all compliance wells. For ground water, at a landfill with a functioning Leachate Collection and Removal System (LCRS), this suite includes all Appendix II constituents that have been detected (at trace level or above) and verified in leachate and, subsequently, have been detected (at trace level or above) and verified in a COC scan of ground water at compliance wells affected by the release. For ground water, at a landfill without a functioning Leachate Collection and Removal System, this suite includes all Appendix II constituents and general minerals that have been detected and verified in a COC scan of ground water at any compliance well affected by the release.

"**Monitoring Point or Well**" for any given monitored medium (surface water, ground water, or the unsaturated zone), means a location, including any installed access device (e.g., well or lysimeter), that is named in the Monitoring and Reporting Program as a place where the discharger monitors that medium: 1) to detect the arrival of the release front for each Monitoring Parameter that is in detection mode at that location; 2) to detect changes in the concentration of each Monitoring Parameter that is in tracking mode at that location; and 3) in case where the location that is in tracking mode for most Monitoring Parameters that are involved in the release, to detect the presence, at trace level or above, of any Constituents of Concern that have not previously been detected

in that medium (Constituents of Concern newly detected and verified in that medium become Monitoring Parameters for that medium).

"**MSW Landfill**" means any landfill that is subject to any portion of the federal regulations under Title 40 of the Code of Federal Regulations Part 258 by virtue of having received municipal solid waste (household waste) at any time and having received any waste after October 9, 1991.

"**Point of Compliance (POC)**" is, for the ground water medium, a part of the Facility's Water Quality Protection Standard and means a conceptual vertical surface that is located, in map view, along the hydraulically downgradient limit of waste placement at the Facility and that extends downward through the uppermost aquifer underlying the Unit. The federal municipal solid waste regulations require one or more ground water monitoring points along this vertical surface to monitor the quality of ground water passing it (see 40 CFR 258.51), whereas the Santa Ana Water Board will name other ground water monitoring points (not along this vertical surface) as needed to provide the earliest possible detection and measurement of a release [see Title 27, section 20415, subdivision (b)(l)].

"**Practical Quantitation Limit (PQL)**" means the value established as a target value by the United States Environmental Protection Agency that is the lowest concentration of a substance that can be consistently determined within +/- 20% of the true concentration by 75% of the laboratories tested in a performance evaluation study. Alternatively, if performance data are not available, the Practical Quantitation Limit for carcinogens is the Method Detection Limit multiplied by 5, and for non-carcinogens is the Method Detection Limit multiplied by 10. These estimated PQLs are listed in Appendix II to Part 258. Generally, these are target values that may not reflect the constraints of matrix effects; therefore, the Santa Ana Water Board requires the Discharger to keep an up-to-date listing of the applicable laboratory-specific PQL and MDL estimates for each analyte on the Constituent of Concern list.

"**Release**" means the three-dimensional portion of the monitored medium (groundwater, surface water, or the unsaturated zone) comprised of all locations therein that are affected by one or more Monitoring Parameters that have migrated from the Facility to such an extent that a properly constructed monitoring point, at that location, would trigger a measurably significant increase over the applicable concentration limit, using an appropriate data analysis method meeting the requirements of Title 27, section 20415, subdivision (e)(9) and a background data set sample size of 16 or more data points.

"**Reporting Period**" means the duration separating the submittal of a given type of monitoring report from the time the next iteration of that report is scheduled for submittal.

"**Retest**" when applied to a scan to detect the presence of an appropriate list of analytes in the monitored medium (typically leachate, gas condensate, or ground water) at an

affected monitoring point), means taking a single additional sample from the indicating medium to determine whether the initial detection, for that analyte, is valid. When applied to the six-monthly monitoring effort for a given compliance Well/MPar pair in detection mode, see "*composite retest*."

"**Sample Size**" for a given compliance Well/MPar pair in detection mode, means the number of data points used to represent the variability of the background population or to represent the present compliance status of the Monitoring Parameter at that well, when applying an appropriate data analysis method.

"**Scan**" means a determination as to whether any of a given list of constituents are detectable (at the trace level or above) in the monitored medium (typically leachate, groundwater, and landfill gas condensate). The term includes both the initial measurement and, for a newly detected constituent, the results of the single retest sample. To identify a newly detected constituent, the constituent must be detected (at trace level or above) and then verified by being detected in the single sample retest.

ATTACHMENT B ACRONYMS

ADC – Alternative Daily Cover

AMP – Assessment Monitoring Program

BLIP - Badlands Landfill Integrated Project

CalRecycle – California Department of Resources Recycling and Recovery

CAP – Corrective Action Program

CCL – Compacted Clay Liner

CCR – California Code of Regulations

CEQA – California Environmental Quality Act

CFR – Code of Federal Regulations

CNSDAM – California Non-statistical Data Analysis Method

COC – Constituent of Concern

CQA/QC – Construction Quality Assurance and Quality Control

CRT – Cathode Ray Tube

CWC – California Water Code

DMP – Detection Monitoring Program

DTSC – California Department of Toxic Substances Control

EAD – Engineered Alternative Design

EDF – Electronic Deliverable Format

EFS – Engineering Feasibility Study

EMP – Evaluation Monitoring Program

EO – Executive Officer

ESI – Electronic Submittal of Information

FML – Flexible Membrane Liner

GCL – Geosynthetic Clay Liner

IGP – Industrial General Stormwater Permit

JTD – Joint Technical Document

LCRS – Leachate Collection and Removal System

LFG – Landfill Gas

LPL – Low Permeability Layer

MCL – Maximum Contaminant Level

MDL – Method Detection Limit

MND – Mitigated Negative Declaration

MPars – Monitoring Parameters

MRP – Monitoring and Reporting Program

MSW – Municipal Solid Wastes

ND – Non-detect

NPDES – National Pollutant Discharge Elimination System

PCMP – Post-Closure Maintenance Plan

PDF – Portable Document Format

POC – Point of Compliance

PQL – Practical Quantitation Limit

PSD – Prescriptive Standard Design

QA/QC – Quality Assurance/Quality Control

RL – Reporting Limit

ROWD – Report of Waste Discharge

TWW – Treated Wood Waste

USEPA – United States Environmental Protection Agency

VOCs – Volatile Organic Compounds

WCS – Waste Containment System

WDRs – Waste Discharge Requirements

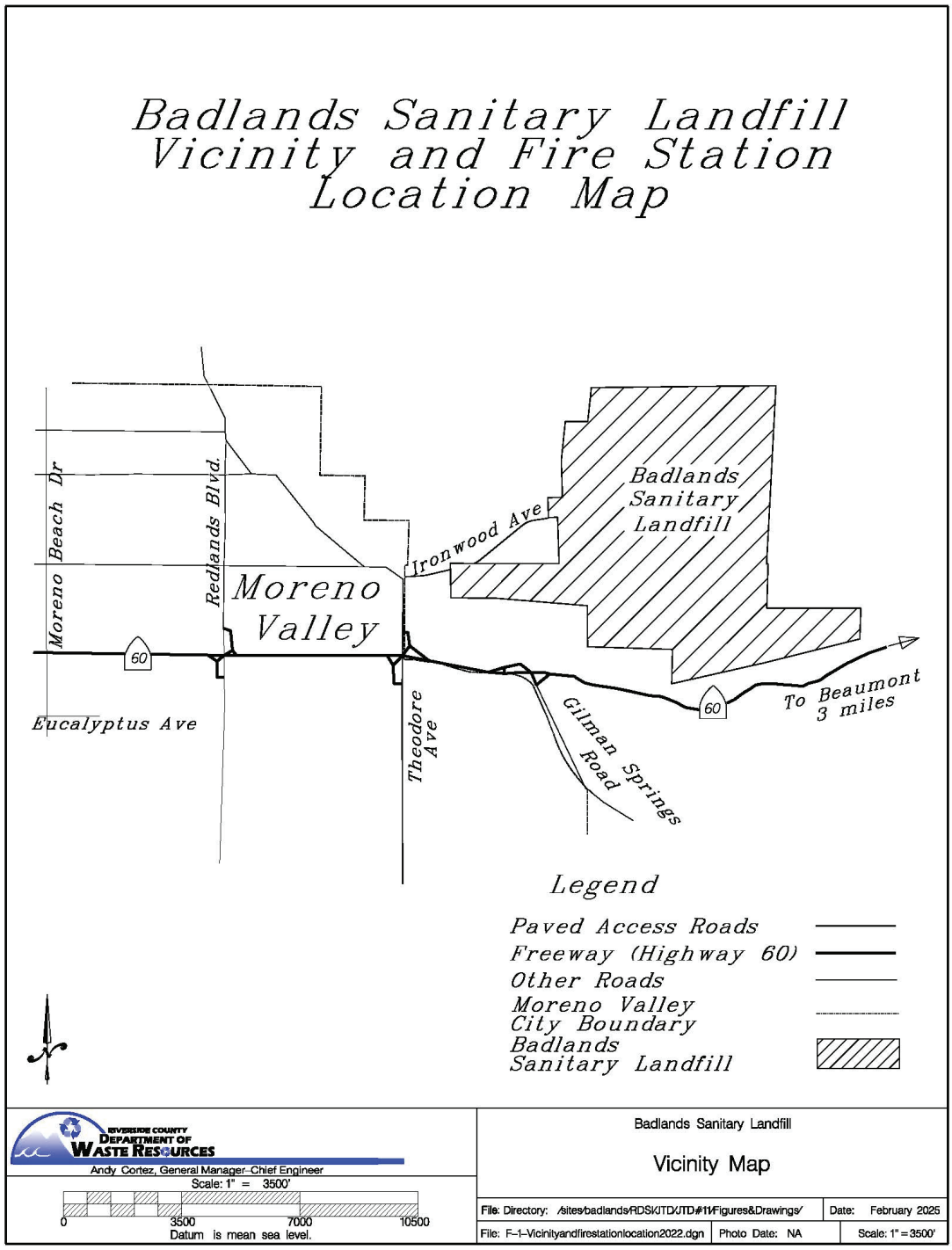
WMUs – Waste Management Units

WQOs – Water Quality Objectives

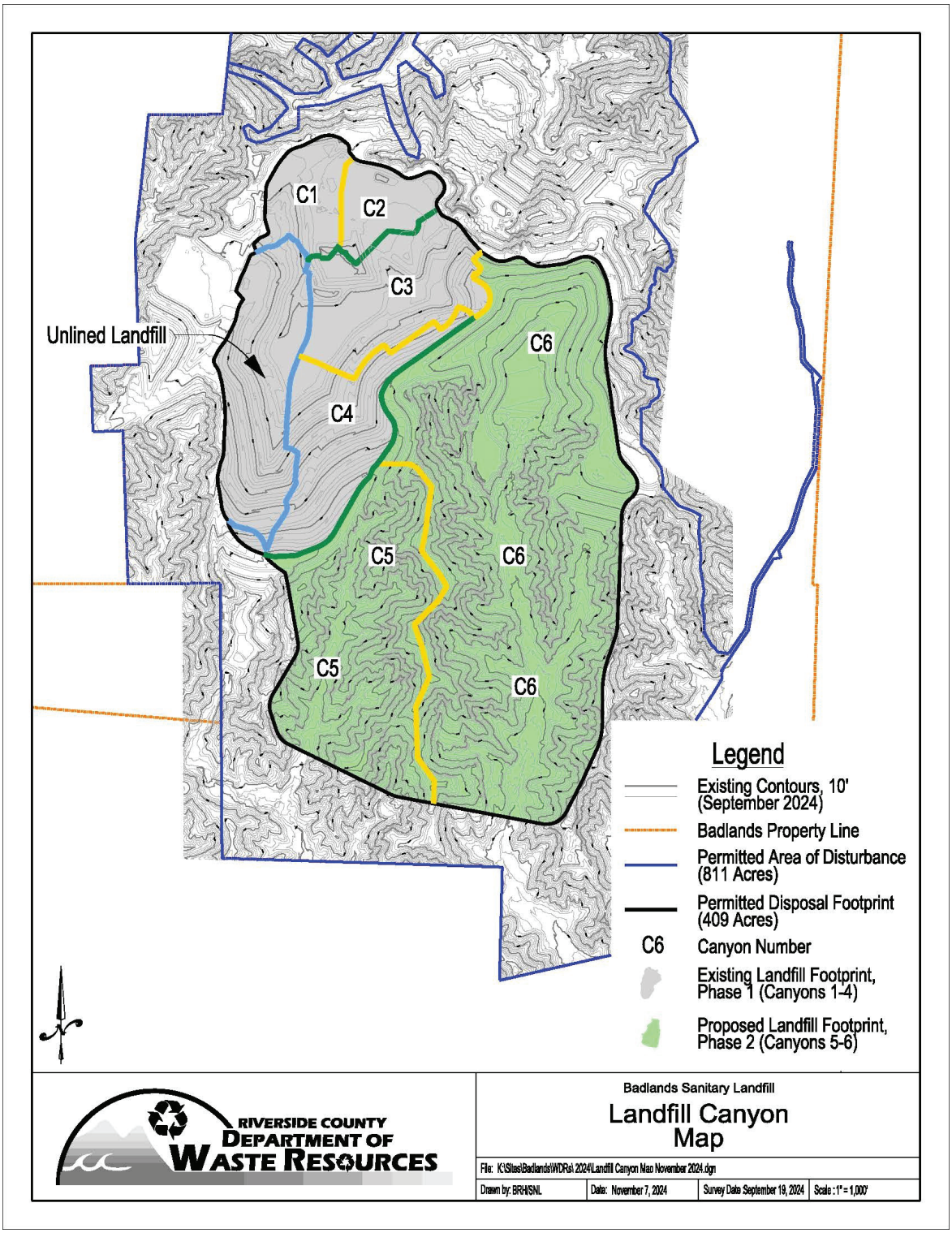
WQPS – Water Quality Protection Standard

ATTACHMENT C MAPS/FIGURES

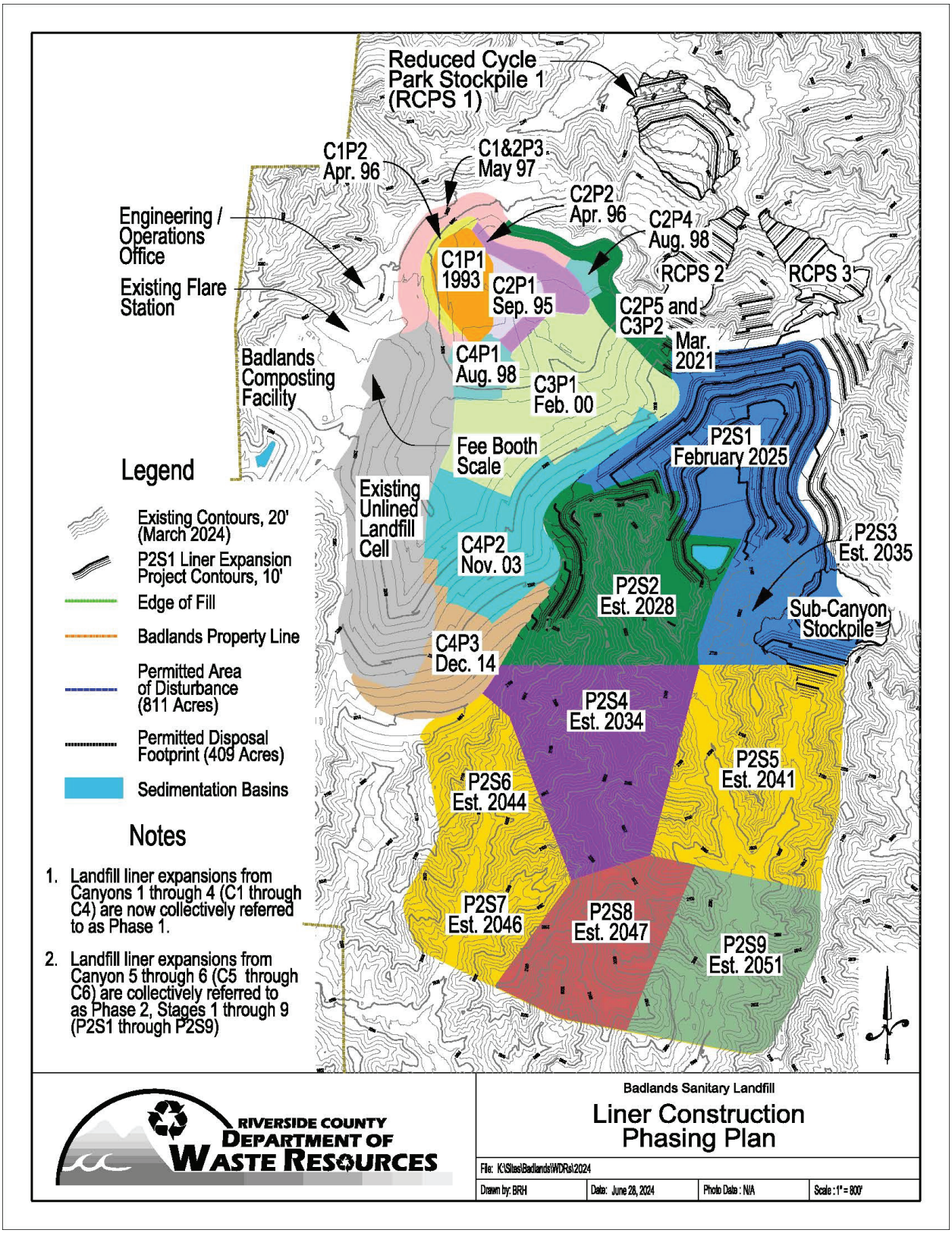
ATTACHMENT C-1 - Vicinity Map



ATTACHMENT C-2 – Existing and Proposed Landfill Footprint



ATTACHMENT C-3 – Existing and Proposed Waste Management Units



Appendix B

B-2 Waste Discharge Requirement Order R8-2024-0046

Appendix B

B-3 Waste Discharge Requirement Order R8-2024-0046

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

3737 Main Street, Suite 500
Riverside, CA 92501-3348
(951) 782-4130
Regional Board Website (https://www.waterboards.ca.gov/santaana)

WASTE DISCHARGE REQUIREMENTS ORDER R8-2024-0046

ORDER INFORMATION

Status:	ADOPTED
Program:	Dredged or Fill Material Program
Discharger(s):	Riverside County, Department of Waste Resources
Project:	Badlands Landfill Integrated Project: Phase 2, Stages 1-3
County:	Riverside County
CIWQS WDID:	332023-17
Prior Order(s):	(none)

CERTIFICATION

I, JAYNE JOY, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on July 26, 2024.

Jayne Joy
Digitally signed by Jayne Joy
Date: 2024.07.30 16:01:39 -07'00'
Water Boards

JAYNE JOY
Executive Officer

TABLE OF CONTENTS

Findings 1

Introduction 1

Project Description and Discharge Characteristics 2

Regulatory Considerations 5

CEQA and Public Participation 6

Requirements 7

A. Discharge Specifications 7

B. Discharge Prohibitions 8

C. Mitigation Requirements 9

D. Provisions 12

Attachment A—Project Vicinity Map 16

Attachment B—Reports and Notifications 19

Attachment C—Signatory Requirements 26

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

ORDER R8-2024-0046

WASTE DISCHARGE REQUIREMENTS
FOR
DISCHARGES OF DREDGED OR FILL MATERIALS TO WATERS OF THE STATE
BADLANDS LANDFILL INTEGRATED PROJECT: PHASE 2, STAGES 1-3
RIVERSIDE COUNTY

FINDINGS

The Santa Ana Regional Water Quality Control Board (Santa Ana Water Board) hereby finds as follows:

Introduction

1. This Order prescribes Waste Discharge Requirements (WDRs) for certain components of the County of Riverside's (Discharger) larger Badlands Landfill Integrated Project (BLIP). For purposes of this Order, these specific BLIP components are referred to as the "Project."[1]

2. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the operative Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) and other plans and policies. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

3. The Santa Ana Water Board has the authority to regulate the discharge of dredged and fill materials through the issuance of WDRs pursuant to California Water Code section 13263. The Santa Ana Water Board has determined that WDRs are necessary to adequately address and protect water quality and designated beneficial uses from potential impacts from the Project. This Order regulates the discharge of fill materials to waters of the state.

4. This Order is issued in compliance with the State Water Resources Control Board's (State Water Board) *State Policy for Water Quality Control: State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to*

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[1] This Order does not provide regulatory coverage for any BLIP components other than those described in Finding 14.

Waters of the State (Dredge and Fill Procedures), which was adopted on April 2, 2019, became on effective May 28, 2020, and was revised April 6, 2021.

5. On July 14, 2023, Michael Baker International, on behalf of the Discharger, submitted an Application for Discharges of Dredged or Fill Materials to Waters of the State (Application) for the Project, which was assigned Santa Ana Water Board WDID No. 332023-17.

6. The Application was considered complete on April 4, 2024.

7. On October 30, 2023, the United States Army Corps of Engineers determined that waters of the United States were not present within the Project boundaries and will not assert jurisdiction over the drainage features in the study area.

Project Description and Discharge Characteristics

8. The Badlands Sanitary Landfill (BSL) is a Municipal Solid Waste Landfill (MSWLF) that is located within an unincorporated portion of Riverside County northeast of the City of Moreno Valley (Latitude: 33.953421, Longitude: -117.120461).

9. The BSL facility consists of multiple lined and unlined contiguous waste management units that are subject to the prescriptive standards of California Code of Regulations, title 27 (Title 27), section 20005 et seq. and 40 Code of Federal Regulations part 258.

10. The Badlands Landfill Integrated Project (BLIP) is intended to provide up to 37 years of additional BSL disposal capacity (while accommodating the county's projected population growth) and promote conservation through onsite waste diversion using a variety of waste management technologies and processes. The BLIP will primarily occur within the eastern portion of the existing BSL boundaries.

11. As part of the larger BLIP, the Discharger will excavate and/or grade approximately 131 acres to the south and east of the existing waste management units for expansion of the landfill. Additionally, the Discharger will excavate and/or grade approximately 26.3 acres for Entrance Improvements, 59.4 acres for Cycle Park Stockpile and 24.6 acres for Eastern Stockpile. These activities will be broken up into approximately 17 different stages (approximately 11-26 acres per stage), followed by construction of a new liner system within the excavated/graded area.

12. On May 8, 2020, the Santa Ana Water Board adopted Order R8-2020-0003, approving the expansion of existing lined waste management units to include areas described as "Canyon 5" and "Canyon 6." These lateral expansions

encompass the area designated as Phase 2, Stages 1-3 (P2S1-3) in Figure 3 of Attachment A.[2] No further lateral expansions for additional stages have been authorized.

13. The lined refuse disposal areas to the north and east of the expansion area will be used to stockpile excavated dirt (Cycle Park Stockpile and Eastern Stockpile), and stormwater detention basins to improve water quality.

14. Due to the BLIP's large scale, variety of proposed activities and length of construction, the BLIP has been divided into several phases. This Order is strictly limited in scope to dredge-and-fill impacts associated with the following BLIP components:

    a. Grading and/or excavation for waste management units covering the areas encompassed by Phase 2, Stages 1-3, as previously authorized per Order R8-2020-0003 for discharges to land;

    b. Entrance Improvement;

    c. Cycle Park Stockpile; and

    d. Eastern Stockpile.

15. Any impacts to the Waters of the state associated with other BLIP components, including Phase 2, Stages 4 and beyond, will need to be addressed through a separate WDRs order.

16. The Project site is located at the Badlands Landfill located at 31125 Ironwood Avenue northeast of the jurisdictional boundary of the City of Moreno Valley, north of Highway 60, and west of the City of Beaumont, in unincorporated Riverside County. Maps showing the Project location and proposed expansion areas are found in Attachment A of this Order.

17. A total of 2.68 acres (58,302 linear feet) of ephemeral waters of the state are present on the Project site that includes 10 features (Feature 1 through Feature 10). Of which, Features 1, 2, 3, 4, 5 and 10 will be impacted as a result of the existing Phase 2, Stages 1-3 Project. Each feature includes the main stem drainage, plus tributary features associated with the main stem feature. Features 1 through 7 are tributaries to Mystic Lake, the San Jacinto River, and the Santa

[2] Per the Discharger's Initial Study and Mitigated Negative Declaration, the existing facility footprint, including the 150-acre disposal area, is now referred to as "Phase 1."

Ana River. Features 8, through 10 have connection to San Timoteo Creek and the Santa Ana River.

18. The Project will result in permanent physical loss of 0.58 acres (14,055 linear ft.) of ephemeral streambed (waters of the state), as a result of grading and filling the ephemeral drainage features. Component-specific impacts are listed in the table below.

BLIP Component	Impacts to Waters of the State	Impacted Features
Phase 2, Stages 1-3	0.28 acre / 5,994 linear feet	Features 3 and 4
Entrance Improvement	0.09 acre / 1,912 linear feet	Features 1 and 2
Cycle Park Stockpile	0.13 acre / 4,966 linear feet	Feature 10
Eastern Stockpile	0.08 acre / 1,183 linear feet	Feature 5
Total	**0.58 acres / 14,055 linear feet**	-

19. The Project will impact six (6) ephemeral drainages tributaries to Mystic Lake and San Timoteo Creek, Reach 2.

    a. Mystic Lake has the following designated beneficial uses (existing or potential): Preservation of Biological Habitats of Special Significance (BIOL), Wildlife Habitat (WILD); and Rare, Threatened, or Endangered Species (RARE).

    b. San Timoteo Creek, Reach 2, has the following designated beneficial uses (existing or potential): Groundwater Recharge (GWR); Water Contact Recreation (REC1); Non-contact Water Recreation (REC2); Warm Freshwater Habitat (WARM); Wildlife Habitat (WILD); and Rare, Threatened, or Endangered Species (RARE).

20. The Discharger has proposed to provide compensatory mitigation for permanent impacts to waters of the state through one of the following options:

    a. Conducting permittee-responsible mitigation of rehabilitation/re-establishment for 1.74 acres of waters within Lake Mathews Estelle Mountain Reserve;

    b. Conducting permittee-responsible mitigation of rehabilitation/re-establishment of 1.74 acres of waters of the state through collaboration with the San Jacinto Resource Conservation District, and

c. Purchase of re-establishment/rehabilitation mitigation credits at the Riverpark Mitigation Bank at the minimum 3:1 ratio (mitigation:impacts) for a total of 1.74 acres.

21. The Discharger intends to mitigate all impacts to waters of the state and habitat for the BLIP expansion activities, including Phase 2, Stages 1-3 and potential future phases through permittee-responsible compensatory mitigation. The compensatory mitigation will consist of habitat re-establishment/ rehabilitation and habitat enhancement for a total of 12.5 acres of riverine and riparian habitat at Lake Mathews Estelle Mountain Reserve or through the San Jacinto Resource Conservation District. Of which, 1.74 acres of the re-establishment/rehabilitation of waters of the state are associated with the Order.

Regulatory Considerations

22. This Order is adopted pursuant to Water Code section 13263, subdivision (a), which provides that the Santa Ana Water Board may, after any necessary hearing, prescribe requirements (WDRs) as to the nature of any proposed discharge with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed. The WDRs must implement any relevant water quality control plans that have been adopted and take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance, and implement the provisions of Water Code section 13241.

23. This Order is also adopted pursuant to Water Code section 13267, subdivision (b)(1) which authorizes the Santa Ana Water Board to require technical and monitoring program reports, submitted under penalty of perjury, from persons discharging or proposing to discharge waste within the Santa Ana Region, in connection with the issuance of WDRs. This Order incorporates requirements for water quality monitoring and Project reporting, which are necessary to ensure that the discharge of dredged and fill materials complies with WDRs and is protective of the environment. In accordance with the Water Code section 13267, the burden, including the costs of generating these reports bears a reasonable relationship to the need for the report and the benefits to be obtained from them.

24. The Santa Ana Water Board has considered the federal and state antidegradation policies (State Water Board Resolution No. 68-16; 40 C.F.R § 131.12) and finds that the discharge permitted under this Order is consistent with those policies. Filling wetlands, riparian areas, headwaters, and other waters causes partial or complete loss of the beneficial uses provided by those waters. This Order requires that impacts to waters of the state be mitigated through avoidance and minimization to the maximum extent practicable and that

unavoidable loss of beneficial uses is offset with compensatory mitigation, including the restoration (reestablishment or rehabilitation), establishment (creation), enhancement, and/or preservation of other waters of the state. The mitigation requirements in this Order comply with the State Water Board's Dredge and Fill Procedures.

25. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330 and California Code of Regulations, title 23, section 2050 et seq. Additionally, the Santa Ana Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Discharger, if the Santa Ana Water Board determines that the Project fails to comply with any of the conditions of this Order; or when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

26. The filing of a request by the Discharger for modification, revocation and re-issuance, or termination of this Order or a notification of planned changes or anticipated noncompliance does not stay any requirements of this Order.

27. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the Discharger from liabilities under federal, state, or local laws, nor guarantee the Discharger a capacity right in the receiving waters.

28. This Order does not convey any property rights of any sort, or any exclusive privilege. The ability to discharge waste is a privilege, not a right; nothing in this Order shall create a vested right to continue any discharges authorized herein, which are subject to rescission or modification. (Wat. Code, § 13263, subd. (g).)

29. Nothing in this Order shall be construed as authorizing the construction of any landfill or other waste management unit for the disposal of municipal solid waste or other solid waste subject to the prescriptive standards set forth in the State Water Board-promulgated provisions of Title 27. For WMUs beyond the footprint of Phase 2, Stages 1-3, the Discharger must obtain revised WDRs under Title 27.

CEQA and Public Participation

30. On April 12, 2022, the Discharger, as the lead agency under the California Environmental Protection Act (CEQA; Public Resources Code, § 21000 et seq.) conducted an Initial Study and adopted a Mitigated Negative Declaration (MND) for the BLIP, which includes the Project subject to this Order (State Clearinghouse No. 2019049142). The lead agency filed a Notice of Determination with the County Clerk at County of Riverside on April 12, 2022.

31. The Santa Ana Water Board is a responsible agency under CEQA for the purposes of issuing this Order. As a responsible agency, the Santa Ana Water Board is "responsible for considering only the effects of those activities involved in a project which it is required by law to carry out or approve." (Pub. Resources Code, § 21002.1, subd. (d).) In approving this Order, the Santa Ana Water Board has considered the MND adopted by the Discharger and subsequent information provided by the Discharger. Specifically, the Santa Ana Water Board considered those sections of the MND pertaining to impacts to water quality. The Santa Ana Water Board finds that compliance with the mitigation measures of the MND and conditions in this Order will reduce potentially adverse impacts to water quality to a less than significant level and protect beneficial uses of receiving waters.

32. Consistent with Water Code section 189.7, the Santa Ana Water Board has conducted outreach to potentially affected disadvantaged and/or tribal communities concerning this Order. The Santa Ana Water Board has notified the Discharger and other interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity for public hearing to submit comments.

33. The Santa Ana Water Board, in a public meeting, heard and considered all comments pertaining to the WDRs for the discharge.

REQUIREMENTS

IT IS HEREBY ORDERED, pursuant to Water Code sections 13263 and 13267, that the Discharger shall comply with the following:

A. Discharge Specifications

1. No activities associated with the Project shall cause or threaten to cause a condition of nuisance, contamination or pollution as defined in Water Code section 13050.

2. The groundwater in the vicinity of the Project shall not be degraded as a result of the Project activities or placement of fill material for the Project.

3. The Discharger must, as applicable, obtain coverage under and comply with the State Water Board's NPDES *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (Order 2009-0009-DWQ, as amended by Order 2012-0006-DWQ; NPDES No. CAS000002) and any subsequent amendments (Construction General Permit). If the Project construction activities do not require coverage under the Construction General Permit, the Discharger must develop and implement a runoff management plan or equivalent construction best

management practices (BMP) plan, to prevent the discharge of sediment and other pollutants during construction activities.

4. The Discharger shall comply with the local regulations associated with the Santa Ana Water Board's Municipal Stormwater Permit issued to Riverside County and co-permittees under NPDES No. CAS618033 and WDRs Order R8-2010-0033, and subsequent iterations thereof.

5. If construction dewatering discharges, including temporary stream diversions, are necessary to carry out the Project, the Discharger shall enroll and comply with Santa Ana Water Board Order R8-2020-0006, *General Waste Discharge Requirements for Discharges to Surface Waters that Pose an Insignificant (De Minimis) Threat to Water Quality*.

6. The discharge of fill materials shall be limited to the placement of native fill and “inert waste,” as defined in Title 27, section 20230. The discharge of fill material other than native soil is prohibited.

7. Construction and post-construction BMPs shall be implemented.

B. Discharge Prohibitions

1. Permanent impacts to waters of the state from the Project shall not exceed quantities identified in Finding 17.

2. The discharge of waste, in a manner or location other than as described in the Application or findings of this Order, or for which valid WDRs are not in force, is prohibited.

3. Except for authorized fill discharges to waters of the state, the direct discharge of wastes, including rubbish, refuse, bark, sawdust, or other solid or liquid wastes, into channels, surface waters, or any place where they would contact or be eventually transported to surface waters, including flood plains, is prohibited.

4. The discharge of oil or other floating materials from any activity in quantities sufficient to cause deleterious bottom deposits, turbidity, or discoloration in surface waters is prohibited.

5. The discharge of silt, sand, clay, or other earthen materials from any activity in quantities sufficient to cause deleterious bottom deposits, turbidity, or discoloration in surface waters is prohibited.

6. Discharges to surface waters of wastes or pollutants that are not authorized by this Order or regulated by a separate permit are prohibited.

7. During the grading and filling operation, there shall be no onsite fueling, lubrication, changing of oil or other equipment fluids and their filters, or any other maintenance or storage of construction equipment within or next to drainage areas or other surface runoff conveyances.

C. Mitigation Requirements

1. The Discharger shall provide compensatory mitigation for permanent impacts to waters of the state through one of the following three (3) options:

    I. Option 1: Permittee-Responsible Mitigation – The Discharger is required to provide permittee-responsible mitigation for the authorized permanent impacts to 0.58 acre of waters of the state by conducting rehabilitation/re-establishment of 1.74 acres of waters of the state within the Lake Mathews Estelle Mountain Reserve.

        a. The Discharger shall submit a final compensatory mitigation plan for review and approval by Santa Ana Water Board staff.

        b. The Discharger shall submit the final compensatory mitigation plan no less than 120 days prior to the Project initiation.

        c. The final compensatory mitigation plan shall include all the elements as outlined in the *Dredge and Fill Procedures, Subpart J – Compensatory Mitigation for Losses of Aquatic Resources*.

        d. The impacts to waters of the state are not authorized and shall not occur until a final compensatory mitigation plan has been approved. Upon approval by the Santa Ana Water Board, the Discharger shall implement the approved plan.

        e. The Discharger is responsible for the permittee-responsible compensatory mitigation in perpetuity. However, the Discharger may transfer the compensatory mitigation requirements associated with long-term management when the following conditions have been met:

            i. Performance standards are met.

            ii. A transfer agreement to a third party has been approved by the Santa Ana Water Board.

            iii. A transfer agreement shall be submitted from an authorized representative of the third party (transferee) for acceptance by the Santa Ana Water Board. This

agreement shall demonstrate acceptance and understanding of the responsibility to comply with and fully satisfy the required compensatory mitigation and long-term management conditions. Failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the Santa Ana Water Board under Water Code section 13385, subdivision (a).

iv. Notification of transfer of responsibilities meeting the above condition must be provided to the Santa Ana Water Board. A draft transfer agreement is due to the Santa Ana Water Board no less than 30 days prior to the transfer of the mitigation responsibility. A final transfer agreement is due to the Santa Ana Water Board within 30 days of the completion of the transfer.

v. An endowment fund has been provided by the Discharger to the third party for management in perpetuity of the mitigation site.

vi. A conservation easement, deed restriction, or other appropriate restrictive covenant for the mitigation site has been recorded and approved by the Santa Ana Water Board.

II. Option 2: Permittee-Responsible Mitigation – The Discharger is required to provide permittee-responsible mitigation for the authorized permanent impacts to 0.58 acre of waters of the state by conducting rehabilitation/re-establishment of 1.74 acres of waters of the state through collaboration with San Jacinto Resource Conservation District.

a. The Discharger shall submit a final compensatory mitigation plan for review and approval by Santa Ana Water Board staff.

b. The Discharger shall submit the final compensatory mitigation plan no less than 120 days prior to the Project initiation.

c. The final compensatory mitigation plan shall include all the elements as outlined in the *Dredge and Fill Procedures, Subpart J – Compensatory Mitigation for Losses of Aquatic Resources*.

d. The impacts to waters of the state are not authorized and shall not occur until a final compensatory mitigation plan has been

approved. Upon approval by the Santa Ana Water Board, the Discharger shall implement the approved plan.

e. The Discharger is responsible for the permittee-responsible compensatory mitigation in perpetuity. However, the Discharger may transfer the compensatory mitigation requirements associated with long-term management when the following conditions have been met:

   i. Performance standards are met.

   ii. A transfer agreement to a third party has been approved by the Santa Ana Water Board.

   iii. A transfer agreement shall be submitted from an authorized representative of the third party (transferee) for acceptance by the Santa Ana Water Board. This agreement shall demonstrate acceptance and understanding of the responsibility to comply with and fully satisfy the required compensatory mitigation and long-term management conditions. Failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the Santa Ana Water Board under Water Code section 13385, subdivision (a).

   iv. Notification of transfer of responsibilities meeting the above condition must be provided to the Santa Ana Water Board. A draft transfer agreement is due to the Santa Ana Water Board no less than 30 days prior to the transfer of the mitigation responsibility. A final transfer agreement is due to the Santa Ana Water Board within 30 days of the completion of the transfer.

   v. An endowment fund has been provided by the Discharger to the third party for management in perpetuity of the mitigation site.

   vi. A conservation easement, deed restriction, or other appropriate restrictive covenant for the mitigation site has been recorded and approved by the Santa Ana Water Board.

III. Option 3: Mitigation Bank: The Discharger shall provide compensatory mitigation for authorized impacts to waters of the state from the Project

by purchasing 1.74 acres of mitigation credits (re-establishment and/or rehabilitation credits) at the Riverpark Mitigation Bank.

a. The impacts to waters of the state are not authorized and shall not occur until the Discharger submits to the Santa Ana Water Board the receipt of purchase of 1.74 acre of mitigation credits from Riverpark Mitigation Bank.

b. The Discharger shall retain responsibility for providing compensatory mitigation until the Santa Ana Water Board has received documentation of the credit purchase.

D. Provisions

1. The Discharger shall maintain a copy of this Order at the Project site so that it is always available to site operating personnel. Key operating personnel shall be familiar with the Order's content.

2. The Discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.

3. This Order is not transferable to any person without written approval by the Santa Ana Water Board's Executive Officer. Prior to any change in ownership, the Discharger shall notify the Santa Ana Water Board's Executive Officer in writing at least 30 days in advance. The notice must include a written transfer agreement between the existing owner and the new owner. At a minimum, the transfer agreement must contain a specific date for transfer of responsibility for compliance with this Order and an acknowledgment that the new owner or operator is liable for compliance with this Order from the date of transfer. The Santa Ana Water Board may require modification or revocation and reissuance of this Order to change the name of the Discharger and incorporate other requirements as may be necessary under the Water Code.

4. The reporting period is from January 1st to December 31st. The Discharger shall submit an annual report each year no later than January 31st for the previous reporting period if the Order effective date is at least 90 days within the reporting period. Annual reporting shall continue until a *Notice of Project Complete Letter* is issued to the Discharger. The contents of the annual report shall include a construction summary, Project status and schedule (including ground disturbance, site clearing and grubbing, and site construction), and the implementation status of Best Management Practices during the active discharge period. If the Project has not started,

the Discharger shall provide an estimated start date and reasons for delay.

5. The Discharger shall submit a *Commencement of Construction Report* at least seven days prior to start of initial ground disturbance activities.

6. The Discharger shall submit a *Request for Notice of Completion of Discharges Letter* following completion of active Project construction activities, including any required restoration and Discharger-responsible mitigation. This request shall be submitted to Santa Ana Water Board staff within 30 days following completion of all Project construction activities. Upon acceptance of the request, Santa Ana Water Board staff will issue to the Discharger a *Notice of Completion of Discharges Letter*, which will end the active discharge period and, if appropriate, associated annual fees.

7. The Discharger shall submit a *Request for Notice of Project Complete Letter* when construction and any required post-construction monitoring is complete and no further Project activities will occur. This request shall be submitted to Santa Ana Water Board staff within 30 days following completion of all Project activities. Upon approval of the request, Santa Ana Water Board staff will issue to the Discharger a *Notice of Project Complete Letter* and prepare a draft order terminating this Order for approval by the Santa Ana Water Board. The *Notice of Project Complete Letter* will end the post-discharge monitoring period, and either the expiration or Board approval of the termination of this Order will end the associated annual fees.

8. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. Records may be maintained electronically. This period may be extended during the course of any unresolved enforcement action or litigation regarding this discharge or when requested by the Santa Ana Water Board.

9. The Discharger shall report any noncompliance that may endanger human health or the environment. Information shall be provided orally to the Santa Ana Water Board office and the Office of Emergency Services within twenty-four (24) hours of when the Discharger becomes aware of the incident. If noncompliance occurs outside of business hours, the Discharger shall leave a message on the Santa Ana Water Board's office voicemail. A written report shall also be provided within five business days of the time the Discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the

period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. All other forms of noncompliance shall be reported with the Discharger's next scheduled Monitoring Report, or earlier if requested by the Executive Officer.

10. Before initiating a new discharge or making a material change in the character, location, or volume of an existing discharge, the Discharger shall report all pertinent information in writing to the Santa Ana Water Board, and if required by the Santa Ana Water Board, obtain revised requirements before any modifications are implemented.

11. The Discharger shall allow the Santa Ana Water Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law to:

    a. Enter premises where a regulated facility or activity is located or conducted, or where records are kept under the requirements of this Order;

    b. Access and copy any records that are kept under the requirements of this Order;

    c. Inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

    d. Photograph, sample, or monitor for the purpose of assuring compliance with this Order or as otherwise authorized by the Water Code.

12. This Order becomes effective on the date of adoption by the Santa Ana Water Board.

13. This Order will remain valid for ten years from the date of its adoption. The Discharger must file a new dredge and fill application in accordance with California Code of Regulations, title 23, division 3, chapter 9 no later than 180 days in advance of this expiration date. The application, with filing fee, will be discussed between the Discharger and Santa Ana Water Board staff regarding any need for additional information and changes in fees prior to the issuance of new WDRs.

LIST OF ATTACHMENTS

Attachment A—Project Vicinity Map
Attachment B—Reports and Notifications
Attachment C—Signatory Requirements

ENFORCEMENT

The Santa Ana Water Board reserves the right to take any enforcement action authorized by law. Accordingly, failure to timely comply with any provisions of this Order may subject the Discharger to enforcement action. Such actions include, but are not limited to, the assessment of administrative civil liability pursuant to Water Code sections 13323, 13268, and 13350, a Time Schedule Order (TSO) issued pursuant to Water Code sections 13300 and 13308, or referral to the California Attorney General for recovery of judicial civil liability.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Santa Ana Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board website (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A—PROJECT VICINITY MAP

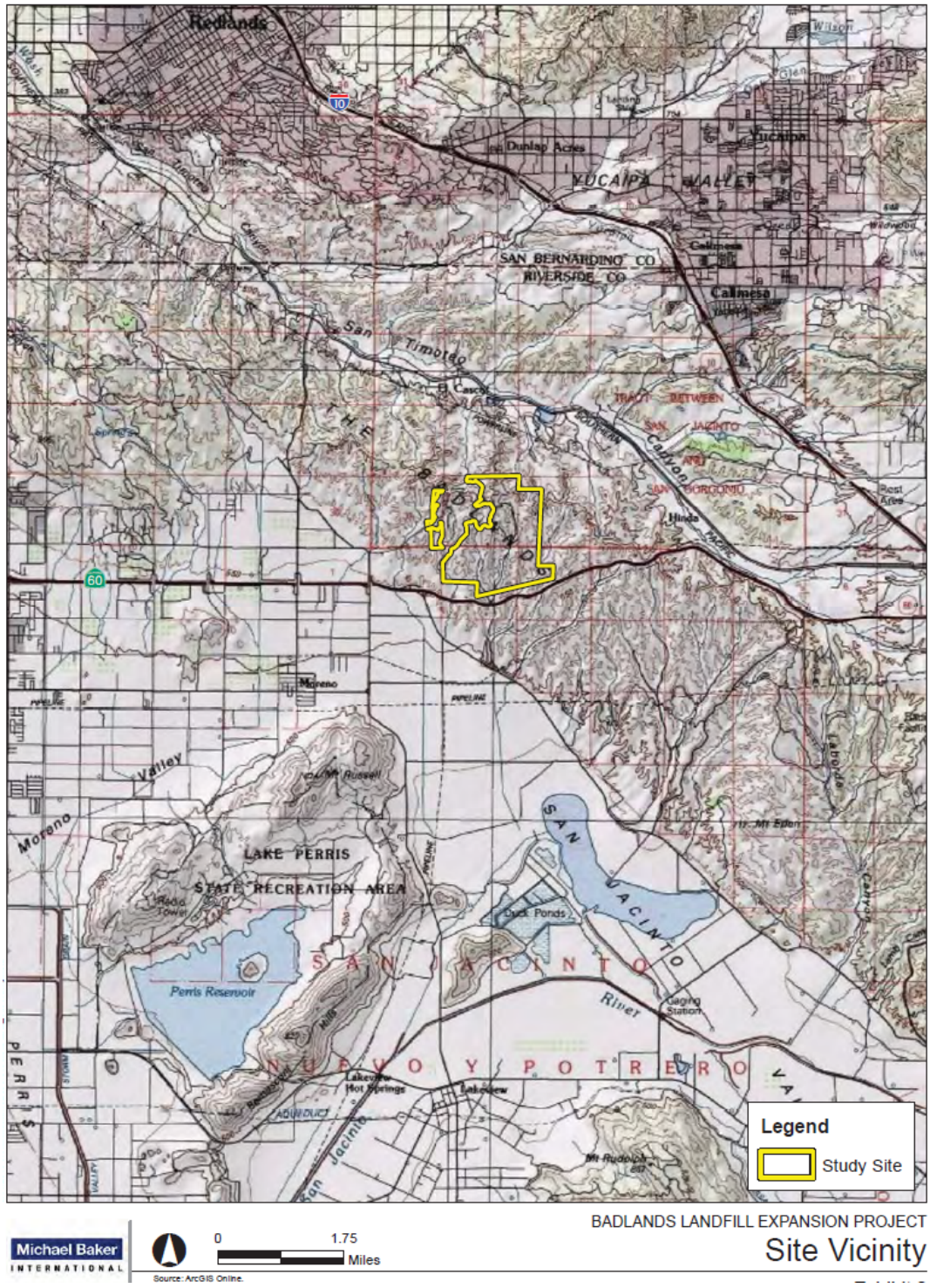


Figure 1. Regional Map

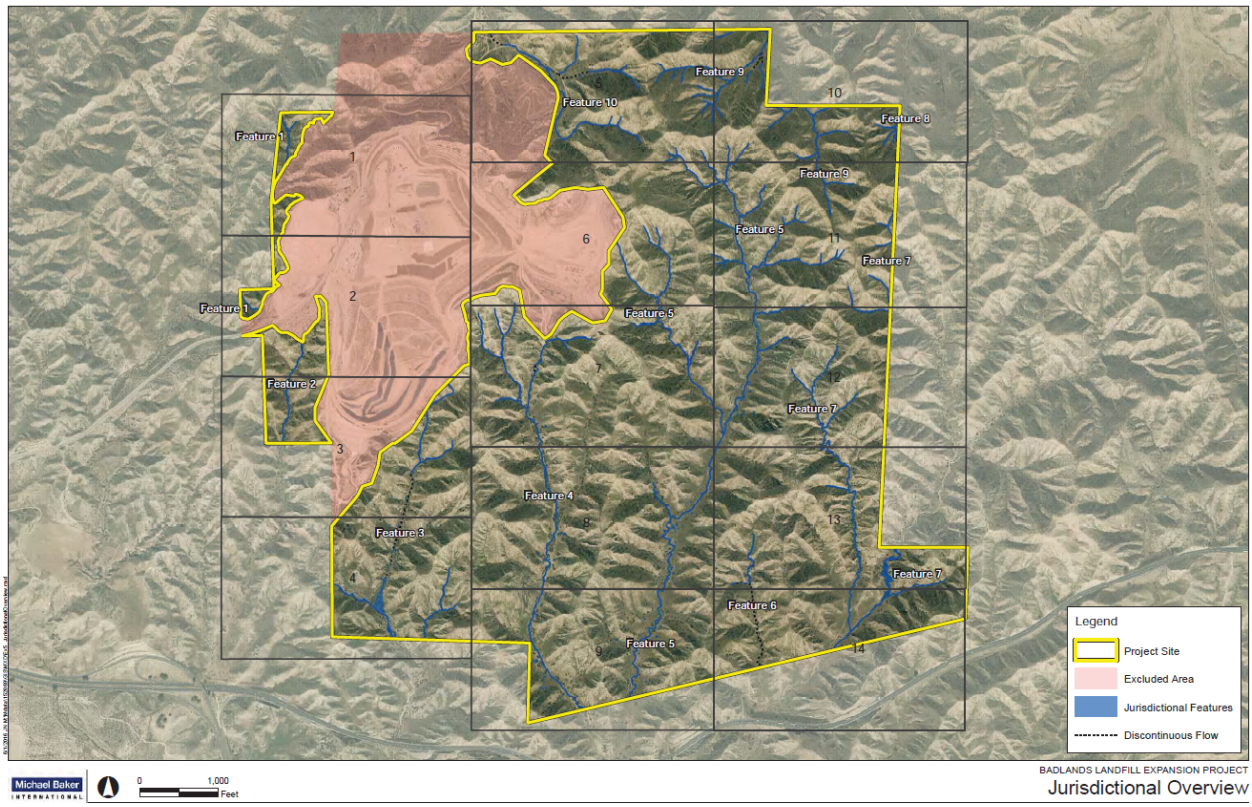


Figure 2. Overview of the Jurisdictional Waters of the State

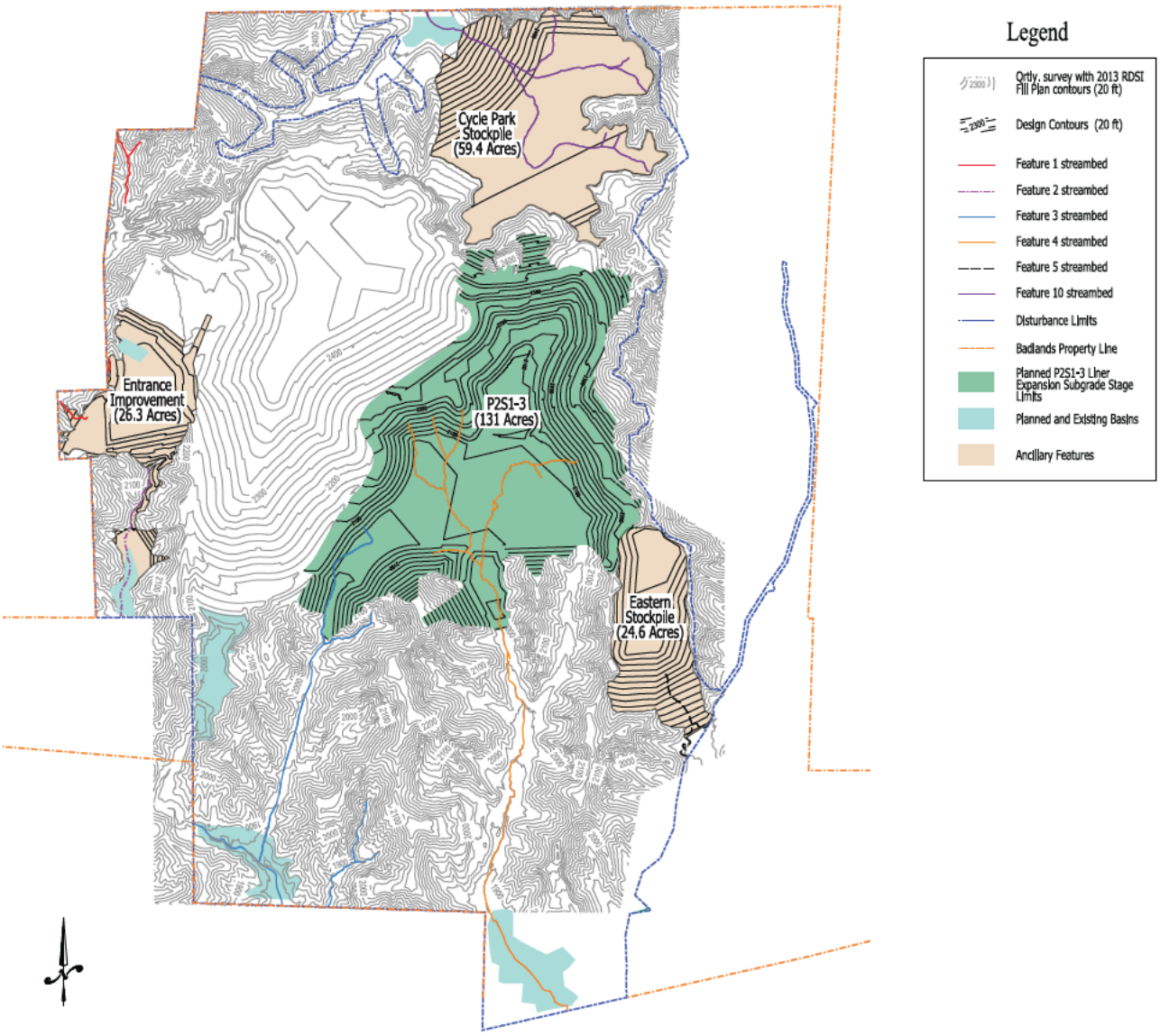


Figure 3. Impacts to Jurisdictional Waters of the State for Phase 2, Stages 1-3

ATTACHMENT B—REPORTS AND NOTIFICATIONS

Copies of this Form
In order to identify your Project, it is necessary to include a copy of the Project-specific Report and Notification Cover Sheet below with your report (see below). Please retain a copy for your records.

Report Submittal Instructions
1) Check the box on the *Report and Notification Cover Sheet* next to the report or notification you are submitting. a) Part A (Annual Report): Submitted annually no later than January 31st of each year until a *Notice of Project Complete Letter* is issued. b) Part B (Project Status Notifications): Used to notify the Santa Ana Water Board of the status of the Project schedule that may affect Project billing. 2) Sign the *Report and Notification Cover Sheet* and attach all information requested for the Report Type. 3) Electronic Report Submittal Instructions: a) Submit signed *Report and Notification Cover Sheet* and required information via email to: RB8-401Reporting@waterboards.ca.gov b) Include in the subject line of the email: Order R8-2024-0046 and Report Type Name c) Additionally, electronically submit Annual Reports using the State Water Board's California Integrated Water Quality System (CIWQS) Program website California Integrated Water Quality System Project (CIWQS) | California State Water Resources Control Board. The CIWQS website will provide additional information for report submittal in the event there will be a planned service interruption for electronic submittal.

ATTACHMENT B—REPORTS AND NOTIFICATIONS

Definition of Reporting Terms
1) **Active Discharge Period:** The active discharge period begins with the effective date of this Order and ends on the date that the Discharger receives a *Notice of Completion of Discharges Letter* or, if no post-construction monitoring is required, a *Notice of Project Complete Letter*. The Active Discharge Period includes all elements of the Project, including site construction and restoration, and any Discharger-responsible compensatory mitigation construction. 2) **Request for Notice of Completion of Discharges Letter:** This request by the Discharger to the Santa Ana Water Board staff pertains to projects that have post construction monitoring requirements (e.g., if site restoration were required to be monitored for five (5) years following construction). Santa Ana Water Board staff will review the request and send a *Completion of Discharges Letter* to the Discharger upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee. 3) **Request for Notice of Project Complete Letter:** This request by the Discharger to the Santa Ana Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements and no further Project activities are planned. Santa Ana Water Board staff will review the request and send a *Project Complete Letter* to the Discharger upon approval. Termination of annual invoicing of fees will correspond with the expiration or termination by Board action of this Order.

Map/Photo Documentation Information
When submitting maps or photos, please use the following formats. **1. Map Format Information:** Preferred map formats of at least 1:24000 (1” = 2000’) detail (listed in order of preference): • **GIS shapefiles:** The shapefiles shall depict the boundaries of all Project areas and extent of aquatic resources impacted. Each shape should be attributed with the extent/type of aquatic resources impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify datum/projection used and, if possible, provide map with a North American Datum of 1983 (NAD83) in the California Teale Albers projection in feet. • **Google KML files** saved from Google Maps: My Maps or Google Earth Pro. Maps shall show the boundaries of all Project areas and extent/type of aquatic resources impacted. Include URL(s) of maps. If this format is used, include a

Map/Photo Documentation Information
spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted. • **Other electronic format** (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps shall show the boundaries of all Project areas and extent/type of aquatic resources impacted. If this format is used, include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted. • Aquatic resource maps marked on paper **USGS 7.5-minute topographic maps** or **Digital Orthophoto Quarter Quads (DOQQ)** printouts. Maps shall show the boundaries of all Project areas and extent/type of aquatic resources impacted. If this format is used, include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted. **2. Photo-Documentation:** Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post-construction conditions.

ATTACHMENT B—REPORTS AND NOTIFICATIONS

Report and Notification Cover Sheet
Project: BADLANDS LANDFILL INTEGRATED PROJECT: PHASE 2, STAGES 1-3
Discharger: RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES
Order No.: R8-2024-0046
Order Effective Date: July 26, 2024

Report Type Submitted
☐ Report Type 1: Annual Report
☐ Report Type 2: Commencement of Construction Report
☐ Report Type 3: Request for Notice of Completion Discharges Letter
☐ Report Type 4: Request for Notice of Project Complete Letter
☐ Report Type 5: Transfer of Property Ownership Report

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

_____

STATEMENT OF AUTHORIZATION (include if authorization has changed since application was submitted)

I hereby authorize_____ to act in my behalf as my representative in the submittal of this report, and to furnish upon request supplemental information in support of this submittal.

_____

_____

Report Type 1	**Annual Report**
Purpose:	Notify the Santa Ana Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit:	Annual reports shall be submitted each year by the effective date. Annual reports shall continue until a *Notice of Project Complete Letter* is issued to the Discharger.
Report Contents:	**Part A:** 1. Project progress and schedule, including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water BMPs. If construction has not started, provide estimated start date and reasons for delay. **Part B:** 1. Planned date of initiation of compensatory mitigation site installation. 2. If installation is in progress, a map of what has been completed to date. 3. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan. 4. For Mitigation Bank or In-Lieu Fee (ILF) mitigation, status or proof of purchase of credit types and quantities. 5. Include the name of bank/ILF Program and contact information.

Report Type 2	**Commencement of Construction**
Purpose:	Notify the Santa Ana Water Board staff prior to the start of construction.
When to Submit:	Must be received at least seven (7) days to start of initial ground disturbance activities.
Report Contents:	1. Date of commencement of construction. 2. Anticipated date when discharges to waters of the state will occur. 3. Project schedule milestones, including a schedule for onsite compensatory mitigation, if applicable.

Report Type 3	**Request for Notice of Completion of Discharge Letter**
Purpose:	Notify Santa Ana Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and Discharger-responsible compensatory mitigation, is complete.
When to Submit:	Must be received by Santa Ana Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents:	**1.** Status of storm water Notice of Termination(s), if applicable. **2.** Status of post-construction storm water BMP installation. **3.** Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized. **4.** Summary of deviation discharge quantities compared to initial authorized impacts to waters of the state, if applicable. **5.** An updated monitoring schedule for mitigation for temporary impacts to waters of the state and Discharger-responsible compensatory mitigation during the post-discharge monitoring period, if applicable.

Report Type 4	**Request for Notice of Project Complete Letter**
Purpose:	Notify Santa Ana Water Board staff that construction and/or any post-construction monitoring is complete, or is not required, and no further Project activity is planned.
When to Submit:	Must be received by Santa Ana Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents:	**Part A: Mitigation for Temporary Impacts** (if applicable) **1.** A report establishing that the performance standards outlined in the restoration plan have been met for Project site upland areas of temporary disturbance that could result in a discharge to waters of the state. **2.** A report establishing that the performance standards outlined in the restoration plan have been met for restored areas of temporary impacts to waters of the state. Pre- and post-photo documentation of all restoration sites.

Report Type 4	**Request for Notice of Project Complete Letter**
	Part B: Discharger-Responsible Compensatory Mitigation (if applicable) **1.** A report establishing that the performance standards outlined in the compensatory mitigation plan have been met. **2.** Status on the implementation of the long-term maintenance and management plan and funding of endowment. **3.** Pre- and post-photo documentation of all compensatory mitigation sites. **4.** Final maps of all compensatory mitigation areas (including buffers).

Report Type 5	**Transfer of Property Ownership**
Purpose:	Notify Santa Ana Water staff of change in ownership of the Project or Discharger-responsible mitigation area.
When to Submit:	At least 30 working days prior to the transfer of ownership.
Report Contents:	1. A statement that the Discharger has provided the purchaser with a copy of this Order and that the purchaser understands and accepts: • the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and • responsibility for compliance with any long-term BMP maintenance plan requirements in this Order. 2. A statement that the Discharger has informed the purchaser to submit a written request to the Santa Ana Water Board to be named as the Discharger in a revised order.

ATTACHMENT C—SIGNATORY REQUIREMENTS

All Documents Submitted in Compliance With this Order Shall Meet the Following Signatory Requirements

1. All applications, reports, or information submitted to the Santa Ana Water Board shall be signed and certified as follows:

    a. For a corporation, by a responsible corporate officer of at least the level of vice-president.
    b. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
    c. For a municipality, or a State, federal, or other public agency, by either a principal executive officer or ranking elected official.

2. A duly authorized representative of a person designated in items 1.a through 1.c above may sign documents if:

    a. The authorization is made in writing by a person described in items 1.a through 1.c above.

    b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.

    c. The written authorization is submitted to the Santa Ana Water Board staff contact prior to submitting any documents listed in item 1 above.

3. Any person signing a document under this section shall make the following certification:

    “I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.”

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

3737 Main Street, Suite 500
Riverside, CA 92501-3348
(951) 782-4130
Regional Board Website (https://www.waterboards.ca.gov/santaana)

WASTE DISCHARGE REQUIREMENTS ORDER R8-2024-0046

ORDER INFORMATION

Status:	ADOPTED
Program:	Dredged or Fill Material Program
Discharger(s):	Riverside County, Department of Waste Resources
Project:	Badlands Landfill Integrated Project: Phase 2, Stages 1-3
County:	Riverside County
CIWQS WDID:	332023-17
Prior Order(s):	(none)

CERTIFICATION

I, JAYNE JOY, Executive Officer, hereby certify that the following is a full, true, and correct copy of the order adopted by the California Regional Water Quality Control Board, Santa Ana Region, on July 26, 2024.

Jayne Joy
Digitally signed by Jayne Joy
Date: 2024.07.30 16:01:39 -07'00'
Water Boards

JAYNE JOY
Executive Officer

TABLE OF CONTENTS

Findings 1
Introduction 1
Project Description and Discharge Characteristics 2
Regulatory Considerations 5
CEQA and Public Participation 6
Requirements 7
A. Discharge Specifications 7
B. Discharge Prohibitions 8
C. Mitigation Requirements 9
D. Provisions 12
Attachment A—Project Vicinity Map 16
Attachment B—Reports and Notifications 19
Attachment C—Signatory Requirements 26

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SANTA ANA REGION

ORDER R8-2024-0046

WASTE DISCHARGE REQUIREMENTS
FOR
DISCHARGES OF DREDGED OR FILL MATERIALS TO WATERS OF THE STATE
BADLANDS LANDFILL INTEGRATED PROJECT: PHASE 2, STAGES 1-3
RIVERSIDE COUNTY

FINDINGS

The Santa Ana Regional Water Quality Control Board (Santa Ana Water Board) hereby finds as follows:

Introduction

1. This Order prescribes Waste Discharge Requirements (WDRs) for certain components of the County of Riverside's (Discharger) larger Badlands Landfill Integrated Project (BLIP). For purposes of this Order, these specific BLIP components are referred to as the "Project."[1]

2. Receiving waters and groundwater potentially impacted by this Project are protected in accordance with the operative Water Quality Control Plan for the Santa Ana River Basin (Basin Plan) and other plans and policies. The Basin Plan includes water quality standards, which consist of existing and potential beneficial uses of waters of the state, water quality objectives to protect those uses, and the state and federal antidegradation policies.

3. The Santa Ana Water Board has the authority to regulate the discharge of dredged and fill materials through the issuance of WDRs pursuant to California Water Code section 13263. The Santa Ana Water Board has determined that WDRs are necessary to adequately address and protect water quality and designated beneficial uses from potential impacts from the Project. This Order regulates the discharge of fill materials to waters of the state.

4. This Order is issued in compliance with the State Water Resources Control Board's (State Water Board) *State Policy for Water Quality Control: State Wetland Definition and Procedures for Discharges of Dredged or Fill Material to*

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[1] This Order does not provide regulatory coverage for any BLIP components other than those described in Finding 14.

Waters of the State (Dredge and Fill Procedures), which was adopted on April 2, 2019, became on effective May 28, 2020, and was revised April 6, 2021.

5. On July 14, 2023, Michael Baker International, on behalf of the Discharger, submitted an Application for Discharges of Dredged or Fill Materials to Waters of the State (Application) for the Project, which was assigned Santa Ana Water Board WDID No. 332023-17.

6. The Application was considered complete on April 4, 2024.

7. On October 30, 2023, the United States Army Corps of Engineers determined that waters of the United States were not present within the Project boundaries and will not assert jurisdiction over the drainage features in the study area.

Project Description and Discharge Characteristics

8. The Badlands Sanitary Landfill (BSL) is a Municipal Solid Waste Landfill (MSWLF) that is located within an unincorporated portion of Riverside County northeast of the City of Moreno Valley (Latitude: 33.953421, Longitude: -117.120461).

9. The BSL facility consists of multiple lined and unlined contiguous waste management units that are subject to the prescriptive standards of California Code of Regulations, title 27 (Title 27), section 20005 et seq. and 40 Code of Federal Regulations part 258.

10. The Badlands Landfill Integrated Project (BLIP) is intended to provide up to 37 years of additional BSL disposal capacity (while accommodating the county's projected population growth) and promote conservation through onsite waste diversion using a variety of waste management technologies and processes. The BLIP will primarily occur within the eastern portion of the existing BSL boundaries.

11. As part of the larger BLIP, the Discharger will excavate and/or grade approximately 131 acres to the south and east of the existing waste management units for expansion of the landfill. Additionally, the Discharger will excavate and/or grade approximately 26.3 acres for Entrance Improvements, 59.4 acres for Cycle Park Stockpile and 24.6 acres for Eastern Stockpile. These activities will be broken up into approximately 17 different stages (approximately 11-26 acres per stage), followed by construction of a new liner system within the excavated/graded area.

12. On May 8, 2020, the Santa Ana Water Board adopted Order R8-2020-0003, approving the expansion of existing lined waste management units to include areas described as "Canyon 5" and "Canyon 6." These lateral expansions

encompass the area designated as Phase 2, Stages 1-3 (P2S1-3) in Figure 3 of Attachment A.[2] No further lateral expansions for additional stages have been authorized.

13. The lined refuse disposal areas to the north and east of the expansion area will be used to stockpile excavated dirt (Cycle Park Stockpile and Eastern Stockpile), and stormwater detention basins to improve water quality.

14. Due to the BLIP's large scale, variety of proposed activities and length of construction, the BLIP has been divided into several phases. This Order is strictly limited in scope to dredge-and-fill impacts associated with the following BLIP components:

    a. Grading and/or excavation for waste management units covering the areas encompassed by Phase 2, Stages 1-3, as previously authorized per Order R8-2020-0003 for discharges to land;

    b. Entrance Improvement;

    c. Cycle Park Stockpile; and

    d. Eastern Stockpile.

15. Any impacts to the Waters of the state associated with other BLIP components, including Phase 2, Stages 4 and beyond, will need to be addressed through a separate WDRs order.

16. The Project site is located at the Badlands Landfill located at 31125 Ironwood Avenue northeast of the jurisdictional boundary of the City of Moreno Valley, north of Highway 60, and west of the City of Beaumont, in unincorporated Riverside County. Maps showing the Project location and proposed expansion areas are found in Attachment A of this Order.

17. A total of 2.68 acres (58,302 linear feet) of ephemeral waters of the state are present on the Project site that includes 10 features (Feature 1 through Feature 10). Of which, Features 1, 2, 3, 4, 5 and 10 will be impacted as a result of the existing Phase 2, Stages 1-3 Project. Each feature includes the main stem drainage, plus tributary features associated with the main stem feature. Features 1 through 7 are tributaries to Mystic Lake, the San Jacinto River, and the Santa

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[2] Per the Discharger's Initial Study and Mitigated Negative Declaration, the existing facility footprint, including the 150-acre disposal area, is now referred to as "Phase 1."

Ana River. Features 8, through 10 have connection to San Timoteo Creek and the Santa Ana River.

18. The Project will result in permanent physical loss of 0.58 acres (14,055 linear ft.) of ephemeral streambed (waters of the state), as a result of grading and filling the ephemeral drainage features. Component-specific impacts are listed in the table below.

BLIP Component	Impacts to Waters of the State	Impacted Features
Phase 2, Stages 1-3	0.28 acre / 5,994 linear feet	Features 3 and 4
Entrance Improvement	0.09 acre / 1,912 linear feet	Features 1 and 2
Cycle Park Stockpile	0.13 acre / 4,966 linear feet	Feature 10
Eastern Stockpile	0.08 acre / 1,183 linear feet	Feature 5
Total	**0.58 acres / 14,055 linear feet**	-

19. The Project will impact six (6) ephemeral drainages tributaries to Mystic Lake and San Timoteo Creek, Reach 2.

    a. Mystic Lake has the following designated beneficial uses (existing or potential): Preservation of Biological Habitats of Special Significance (BIOL), Wildlife Habitat (WILD); and Rare, Threatened, or Endangered Species (RARE).

    b. San Timoteo Creek, Reach 2, has the following designated beneficial uses (existing or potential): Groundwater Recharge (GWR); Water Contact Recreation (REC1); Non-contact Water Recreation (REC2); Warm Freshwater Habitat (WARM); Wildlife Habitat (WILD); and Rare, Threatened, or Endangered Species (RARE).

20. The Discharger has proposed to provide compensatory mitigation for permanent impacts to waters of the state through one of the following options:

    a. Conducting permittee-responsible mitigation of rehabilitation/re-establishment for 1.74 acres of waters within Lake Mathews Estelle Mountain Reserve;

    b. Conducting permittee-responsible mitigation of rehabilitation/re-establishment of 1.74 acres of waters of the state through collaboration with the San Jacinto Resource Conservation District, and

c. Purchase of re-establishment/rehabilitation mitigation credits at the Riverpark Mitigation Bank at the minimum 3:1 ratio (mitigation:impacts) for a total of 1.74 acres.

21. The Discharger intends to mitigate all impacts to waters of the state and habitat for the BLIP expansion activities, including Phase 2, Stages 1-3 and potential future phases through permittee-responsible compensatory mitigation. The compensatory mitigation will consist of habitat re-establishment/ rehabilitation and habitat enhancement for a total of 12.5 acres of riverine and riparian habitat at Lake Mathews Estelle Mountain Reserve or through the San Jacinto Resource Conservation District. Of which, 1.74 acres of the re-establishment/rehabilitation of waters of the state are associated with the Order.

Regulatory Considerations

22. This Order is adopted pursuant to Water Code section 13263, subdivision (a), which provides that the Santa Ana Water Board may, after any necessary hearing, prescribe requirements (WDRs) as to the nature of any proposed discharge with relation to the conditions existing in the disposal area or receiving waters upon, or into which, the discharge is made or proposed. The WDRs must implement any relevant water quality control plans that have been adopted and take into consideration the beneficial uses to be protected, the water quality objectives reasonably required for that purpose, other waste discharges, the need to prevent nuisance, and implement the provisions of Water Code section 13241.

23. This Order is also adopted pursuant to Water Code section 13267, subdivision (b)(1) which authorizes the Santa Ana Water Board to require technical and monitoring program reports, submitted under penalty of perjury, from persons discharging or proposing to discharge waste within the Santa Ana Region, in connection with the issuance of WDRs. This Order incorporates requirements for water quality monitoring and Project reporting, which are necessary to ensure that the discharge of dredged and fill materials complies with WDRs and is protective of the environment. In accordance with the Water Code section 13267, the burden, including the costs of generating these reports bears a reasonable relationship to the need for the report and the benefits to be obtained from them.

24. The Santa Ana Water Board has considered the federal and state antidegradation policies (State Water Board Resolution No. 68-16; 40 C.F.R § 131.12) and finds that the discharge permitted under this Order is consistent with those policies. Filling wetlands, riparian areas, headwaters, and other waters causes partial or complete loss of the beneficial uses provided by those waters. This Order requires that impacts to waters of the state be mitigated through avoidance and minimization to the maximum extent practicable and that

unavoidable loss of beneficial uses is offset with compensatory mitigation, including the restoration (reestablishment or rehabilitation), establishment (creation), enhancement, and/or preservation of other waters of the state. The mitigation requirements in this Order comply with the State Water Board's Dredge and Fill Procedures.

25. This Order is subject to modification or revocation upon administrative or judicial review, including review and amendment pursuant to Water Code section 13330 and California Code of Regulations, title 23, section 2050 et seq. Additionally, the Santa Ana Water Board reserves the right to suspend, cancel, or modify and reissue this Order, after providing notice to the Discharger, if the Santa Ana Water Board determines that the Project fails to comply with any of the conditions of this Order; or when necessary to implement any new or revised water quality standards and implementation plans adopted or approved pursuant to the Porter-Cologne Water Quality Control Act (Wat. Code, § 13000 et seq.).

26. The filing of a request by the Discharger for modification, revocation and re-issuance, or termination of this Order or a notification of planned changes or anticipated noncompliance does not stay any requirements of this Order.

27. The requirements prescribed herein do not authorize the commission of any act causing injury to the property of another, nor protect the Discharger from liabilities under federal, state, or local laws, nor guarantee the Discharger a capacity right in the receiving waters.

28. This Order does not convey any property rights of any sort, or any exclusive privilege. The ability to discharge waste is a privilege, not a right; nothing in this Order shall create a vested right to continue any discharges authorized herein, which are subject to rescission or modification. (Wat. Code, § 13263, subd. (g).)

29. Nothing in this Order shall be construed as authorizing the construction of any landfill or other waste management unit for the disposal of municipal solid waste or other solid waste subject to the prescriptive standards set forth in the State Water Board-promulgated provisions of Title 27. For WMUs beyond the footprint of Phase 2, Stages 1-3, the Discharger must obtain revised WDRs under Title 27.

CEQA and Public Participation

30. On April 12, 2022, the Discharger, as the lead agency under the California Environmental Protection Act (CEQA; Public Resources Code, § 21000 et seq.) conducted an Initial Study and adopted a Mitigated Negative Declaration (MND) for the BLIP, which includes the Project subject to this Order (State Clearinghouse No. 2019049142). The lead agency filed a Notice of Determination with the County Clerk at County of Riverside on April 12, 2022.

31. The Santa Ana Water Board is a responsible agency under CEQA for the purposes of issuing this Order. As a responsible agency, the Santa Ana Water Board is "responsible for considering only the effects of those activities involved in a project which it is required by law to carry out or approve." (Pub. Resources Code, § 21002.1, subd. (d).) In approving this Order, the Santa Ana Water Board has considered the MND adopted by the Discharger and subsequent information provided by the Discharger. Specifically, the Santa Ana Water Board considered those sections of the MND pertaining to impacts to water quality. The Santa Ana Water Board finds that compliance with the mitigation measures of the MND and conditions in this Order will reduce potentially adverse impacts to water quality to a less than significant level and protect beneficial uses of receiving waters.

32. Consistent with Water Code section 189.7, the Santa Ana Water Board has conducted outreach to potentially affected disadvantaged and/or tribal communities concerning this Order. The Santa Ana Water Board has notified the Discharger and other interested agencies and persons of its intent to prescribe WDRs for the discharge and has provided them with an opportunity for public hearing to submit comments.

33. The Santa Ana Water Board, in a public meeting, heard and considered all comments pertaining to the WDRs for the discharge.

REQUIREMENTS

IT IS HEREBY ORDERED, pursuant to Water Code sections 13263 and 13267, that the Discharger shall comply with the following:

A. Discharge Specifications

1. No activities associated with the Project shall cause or threaten to cause a condition of nuisance, contamination or pollution as defined in Water Code section 13050.

2. The groundwater in the vicinity of the Project shall not be degraded as a result of the Project activities or placement of fill material for the Project.

3. The Discharger must, as applicable, obtain coverage under and comply with the State Water Board's NPDES *General Permit for Storm Water Discharges Associated with Construction and Land Disturbance Activities* (Order 2009-0009-DWQ, as amended by Order 2012-0006-DWQ; NPDES No. CAS000002) and any subsequent amendments (Construction General Permit). If the Project construction activities do not require coverage under the Construction General Permit, the Discharger must develop and implement a runoff management plan or equivalent construction best

management practices (BMP) plan, to prevent the discharge of sediment and other pollutants during construction activities.

4. The Discharger shall comply with the local regulations associated with the Santa Ana Water Board's Municipal Stormwater Permit issued to Riverside County and co-permittees under NPDES No. CAS618033 and WDRs Order R8-2010-0033, and subsequent iterations thereof.

5. If construction dewatering discharges, including temporary stream diversions, are necessary to carry out the Project, the Discharger shall enroll and comply with Santa Ana Water Board Order R8-2020-0006, *General Waste Discharge Requirements for Discharges to Surface Waters that Pose an Insignificant (De Minimis) Threat to Water Quality*.

6. The discharge of fill materials shall be limited to the placement of native fill and “inert waste,” as defined in Title 27, section 20230. The discharge of fill material other than native soil is prohibited.

7. Construction and post-construction BMPs shall be implemented.

B. Discharge Prohibitions

1. Permanent impacts to waters of the state from the Project shall not exceed quantities identified in Finding 17.

2. The discharge of waste, in a manner or location other than as described in the Application or findings of this Order, or for which valid WDRs are not in force, is prohibited.

3. Except for authorized fill discharges to waters of the state, the direct discharge of wastes, including rubbish, refuse, bark, sawdust, or other solid or liquid wastes, into channels, surface waters, or any place where they would contact or be eventually transported to surface waters, including flood plains, is prohibited.

4. The discharge of oil or other floating materials from any activity in quantities sufficient to cause deleterious bottom deposits, turbidity, or discoloration in surface waters is prohibited.

5. The discharge of silt, sand, clay, or other earthen materials from any activity in quantities sufficient to cause deleterious bottom deposits, turbidity, or discoloration in surface waters is prohibited.

6. Discharges to surface waters of wastes or pollutants that are not authorized by this Order or regulated by a separate permit are prohibited.

7. During the grading and filling operation, there shall be no onsite fueling, lubrication, changing of oil or other equipment fluids and their filters, or any other maintenance or storage of construction equipment within or next to drainage areas or other surface runoff conveyances.

C. Mitigation Requirements

1. The Discharger shall provide compensatory mitigation for permanent impacts to waters of the state through one of the following three (3) options:

    I. Option 1: Permittee-Responsible Mitigation – The Discharger is required to provide permittee-responsible mitigation for the authorized permanent impacts to 0.58 acre of waters of the state by conducting rehabilitation/re-establishment of 1.74 acres of waters of the state within the Lake Mathews Estelle Mountain Reserve.

        a. The Discharger shall submit a final compensatory mitigation plan for review and approval by Santa Ana Water Board staff.

        b. The Discharger shall submit the final compensatory mitigation plan no less than 120 days prior to the Project initiation.

        c. The final compensatory mitigation plan shall include all the elements as outlined in the *Dredge and Fill Procedures, Subpart J – Compensatory Mitigation for Losses of Aquatic Resources*.

        d. The impacts to waters of the state are not authorized and shall not occur until a final compensatory mitigation plan has been approved. Upon approval by the Santa Ana Water Board, the Discharger shall implement the approved plan.

        e. The Discharger is responsible for the permittee-responsible compensatory mitigation in perpetuity. However, the Discharger may transfer the compensatory mitigation requirements associated with long-term management when the following conditions have been met:

            i. Performance standards are met.

            ii. A transfer agreement to a third party has been approved by the Santa Ana Water Board.

            iii. A transfer agreement shall be submitted from an authorized representative of the third party (transferee) for acceptance by the Santa Ana Water Board. This

agreement shall demonstrate acceptance and understanding of the responsibility to comply with and fully satisfy the required compensatory mitigation and long-term management conditions. Failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the Santa Ana Water Board under Water Code section 13385, subdivision (a).

iv. Notification of transfer of responsibilities meeting the above condition must be provided to the Santa Ana Water Board. A draft transfer agreement is due to the Santa Ana Water Board no less than 30 days prior to the transfer of the mitigation responsibility. A final transfer agreement is due to the Santa Ana Water Board within 30 days of the completion of the transfer.

v. An endowment fund has been provided by the Discharger to the third party for management in perpetuity of the mitigation site.

vi. A conservation easement, deed restriction, or other appropriate restrictive covenant for the mitigation site has been recorded and approved by the Santa Ana Water Board.

II. Option 2: Permittee-Responsible Mitigation – The Discharger is required to provide permittee-responsible mitigation for the authorized permanent impacts to 0.58 acre of waters of the state by conducting rehabilitation/re-establishment of 1.74 acres of waters of the state through collaboration with San Jacinto Resource Conservation District.

a. The Discharger shall submit a final compensatory mitigation plan for review and approval by Santa Ana Water Board staff.

b. The Discharger shall submit the final compensatory mitigation plan no less than 120 days prior to the Project initiation.

c. The final compensatory mitigation plan shall include all the elements as outlined in the *Dredge and Fill Procedures, Subpart J – Compensatory Mitigation for Losses of Aquatic Resources*.

d. The impacts to waters of the state are not authorized and shall not occur until a final compensatory mitigation plan has been

approved. Upon approval by the Santa Ana Water Board, the Discharger shall implement the approved plan.

e. The Discharger is responsible for the permittee-responsible compensatory mitigation in perpetuity. However, the Discharger may transfer the compensatory mitigation requirements associated with long-term management when the following conditions have been met:

   i. Performance standards are met.

   ii. A transfer agreement to a third party has been approved by the Santa Ana Water Board.

   iii. A transfer agreement shall be submitted from an authorized representative of the third party (transferee) for acceptance by the Santa Ana Water Board. This agreement shall demonstrate acceptance and understanding of the responsibility to comply with and fully satisfy the required compensatory mitigation and long-term management conditions. Failure to comply with the mitigation conditions and associated requirements may subject the transferee to enforcement by the Santa Ana Water Board under Water Code section 13385, subdivision (a).

   iv. Notification of transfer of responsibilities meeting the above condition must be provided to the Santa Ana Water Board. A draft transfer agreement is due to the Santa Ana Water Board no less than 30 days prior to the transfer of the mitigation responsibility. A final transfer agreement is due to the Santa Ana Water Board within 30 days of the completion of the transfer.

   v. An endowment fund has been provided by the Discharger to the third party for management in perpetuity of the mitigation site.

   vi. A conservation easement, deed restriction, or other appropriate restrictive covenant for the mitigation site has been recorded and approved by the Santa Ana Water Board.

III. Option 3: Mitigation Bank: The Discharger shall provide compensatory mitigation for authorized impacts to waters of the state from the Project

by purchasing 1.74 acres of mitigation credits (re-establishment and/or rehabilitation credits) at the Riverpark Mitigation Bank.

a. The impacts to waters of the state are not authorized and shall not occur until the Discharger submits to the Santa Ana Water Board the receipt of purchase of 1.74 acre of mitigation credits from Riverpark Mitigation Bank.

b. The Discharger shall retain responsibility for providing compensatory mitigation until the Santa Ana Water Board has received documentation of the credit purchase.

D. Provisions

1. The Discharger shall maintain a copy of this Order at the Project site so that it is always available to site operating personnel. Key operating personnel shall be familiar with the Order's content.

2. The Discharger shall take all reasonable steps to minimize or prevent any discharge that has a reasonable likelihood of adversely affecting human health or the environment.

3. This Order is not transferable to any person without written approval by the Santa Ana Water Board's Executive Officer. Prior to any change in ownership, the Discharger shall notify the Santa Ana Water Board's Executive Officer in writing at least 30 days in advance. The notice must include a written transfer agreement between the existing owner and the new owner. At a minimum, the transfer agreement must contain a specific date for transfer of responsibility for compliance with this Order and an acknowledgment that the new owner or operator is liable for compliance with this Order from the date of transfer. The Santa Ana Water Board may require modification or revocation and reissuance of this Order to change the name of the Discharger and incorporate other requirements as may be necessary under the Water Code.

4. The reporting period is from January 1st to December 31st. The Discharger shall submit an annual report each year no later than January 31st for the previous reporting period if the Order effective date is at least 90 days within the reporting period. Annual reporting shall continue until a *Notice of Project Complete Letter* is issued to the Discharger. The contents of the annual report shall include a construction summary, Project status and schedule (including ground disturbance, site clearing and grubbing, and site construction), and the implementation status of Best Management Practices during the active discharge period. If the Project has not started,

the Discharger shall provide an estimated start date and reasons for delay.

5. The Discharger shall submit a *Commencement of Construction Report* at least seven days prior to start of initial ground disturbance activities.

6. The Discharger shall submit a *Request for Notice of Completion of Discharges Letter* following completion of active Project construction activities, including any required restoration and Discharger-responsible mitigation. This request shall be submitted to Santa Ana Water Board staff within 30 days following completion of all Project construction activities. Upon acceptance of the request, Santa Ana Water Board staff will issue to the Discharger a *Notice of Completion of Discharges Letter*, which will end the active discharge period and, if appropriate, associated annual fees.

7. The Discharger shall submit a *Request for Notice of Project Complete Letter* when construction and any required post-construction monitoring is complete and no further Project activities will occur. This request shall be submitted to Santa Ana Water Board staff within 30 days following completion of all Project activities. Upon approval of the request, Santa Ana Water Board staff will issue to the Discharger a *Notice of Project Complete Letter* and prepare a draft order terminating this Order for approval by the Santa Ana Water Board. The *Notice of Project Complete Letter* will end the post-discharge monitoring period, and either the expiration or Board approval of the termination of this Order will end the associated annual fees.

8. The Discharger shall retain records of all monitoring information, including all calibration and maintenance records, copies of all reports required by this Order, and records of all data used to complete the application for this Order. Records shall be maintained for a minimum of five years from the date of the sample, measurement, report, or application. Records may be maintained electronically. This period may be extended during the course of any unresolved enforcement action or litigation regarding this discharge or when requested by the Santa Ana Water Board.

9. The Discharger shall report any noncompliance that may endanger human health or the environment. Information shall be provided orally to the Santa Ana Water Board office and the Office of Emergency Services within twenty-four (24) hours of when the Discharger becomes aware of the incident. If noncompliance occurs outside of business hours, the Discharger shall leave a message on the Santa Ana Water Board's office voicemail. A written report shall also be provided within five business days of the time the Discharger becomes aware of the incident. The written report shall contain a description of the noncompliance and its cause, the

period of noncompliance, the anticipated time to achieve full compliance, and the steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. All other forms of noncompliance shall be reported with the Discharger's next scheduled Monitoring Report, or earlier if requested by the Executive Officer.

10. Before initiating a new discharge or making a material change in the character, location, or volume of an existing discharge, the Discharger shall report all pertinent information in writing to the Santa Ana Water Board, and if required by the Santa Ana Water Board, obtain revised requirements before any modifications are implemented.

11. The Discharger shall allow the Santa Ana Water Board, or an authorized representative, upon presentation of credentials and other documents as may be required by law to:

    a. Enter premises where a regulated facility or activity is located or conducted, or where records are kept under the requirements of this Order;

    b. Access and copy any records that are kept under the requirements of this Order;

    c. Inspect any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required under this Order; and

    d. Photograph, sample, or monitor for the purpose of assuring compliance with this Order or as otherwise authorized by the Water Code.

12. This Order becomes effective on the date of adoption by the Santa Ana Water Board.

13. This Order will remain valid for ten years from the date of its adoption. The Discharger must file a new dredge and fill application in accordance with California Code of Regulations, title 23, division 3, chapter 9 no later than 180 days in advance of this expiration date. The application, with filing fee, will be discussed between the Discharger and Santa Ana Water Board staff regarding any need for additional information and changes in fees prior to the issuance of new WDRs.

LIST OF ATTACHMENTS

Attachment A—Project Vicinity Map
Attachment B—Reports and Notifications
Attachment C—Signatory Requirements

ENFORCEMENT

The Santa Ana Water Board reserves the right to take any enforcement action authorized by law. Accordingly, failure to timely comply with any provisions of this Order may subject the Discharger to enforcement action. Such actions include, but are not limited to, the assessment of administrative civil liability pursuant to Water Code sections 13323, 13268, and 13350, a Time Schedule Order (TSO) issued pursuant to Water Code sections 13300 and 13308, or referral to the California Attorney General for recovery of judicial civil liability.

ADMINISTRATIVE REVIEW

Any person aggrieved by this Santa Ana Water Board action may petition the State Water Board for review in accordance with Water Code section 13320 and California Code of Regulations, title 23, section 2050 et seq. To be timely, the petition must be received by the State Water Board by 5:00 pm on the 30th day after the date of this Order; if the 30th day falls on a Saturday, Sunday or state holiday, the petition must be received by the State Water Board by 5:00 pm on the next business day. The law and regulations applicable to filing petitions are available on the State Water Board website (http://www.waterboards.ca.gov/public_notices/petitions/water_quality). Copies will also be provided upon request.

ATTACHMENT A—PROJECT VICINITY MAP

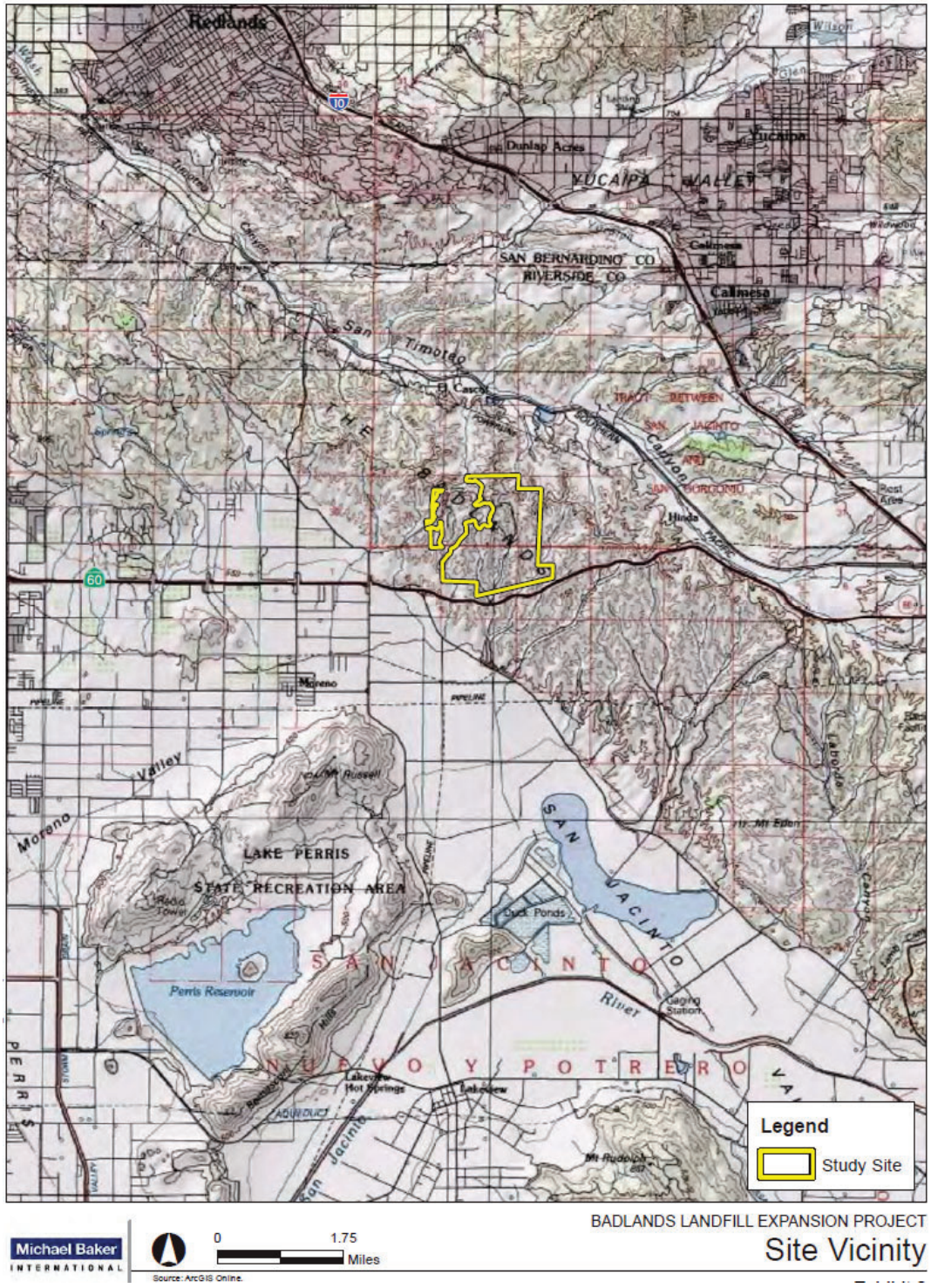


Figure 1. Regional Map

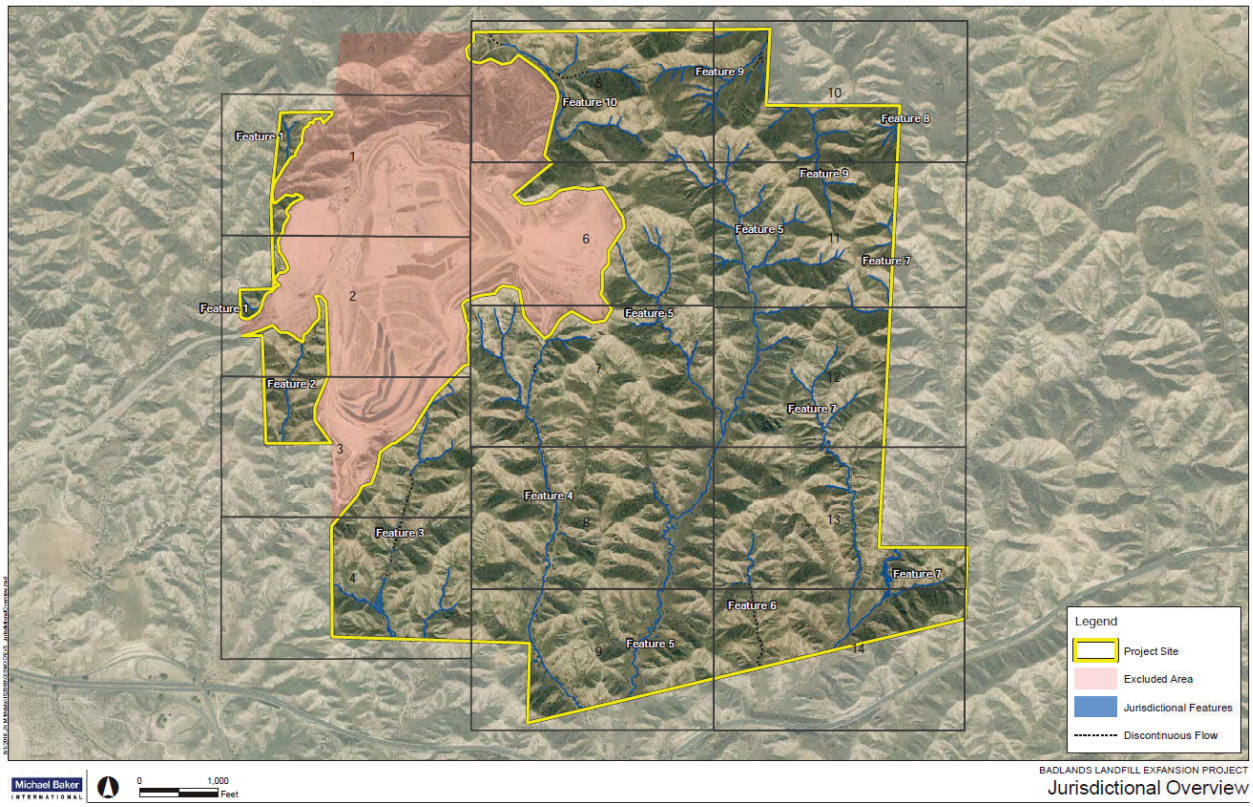


Figure 2. Overview of the Jurisdictional Waters of the State

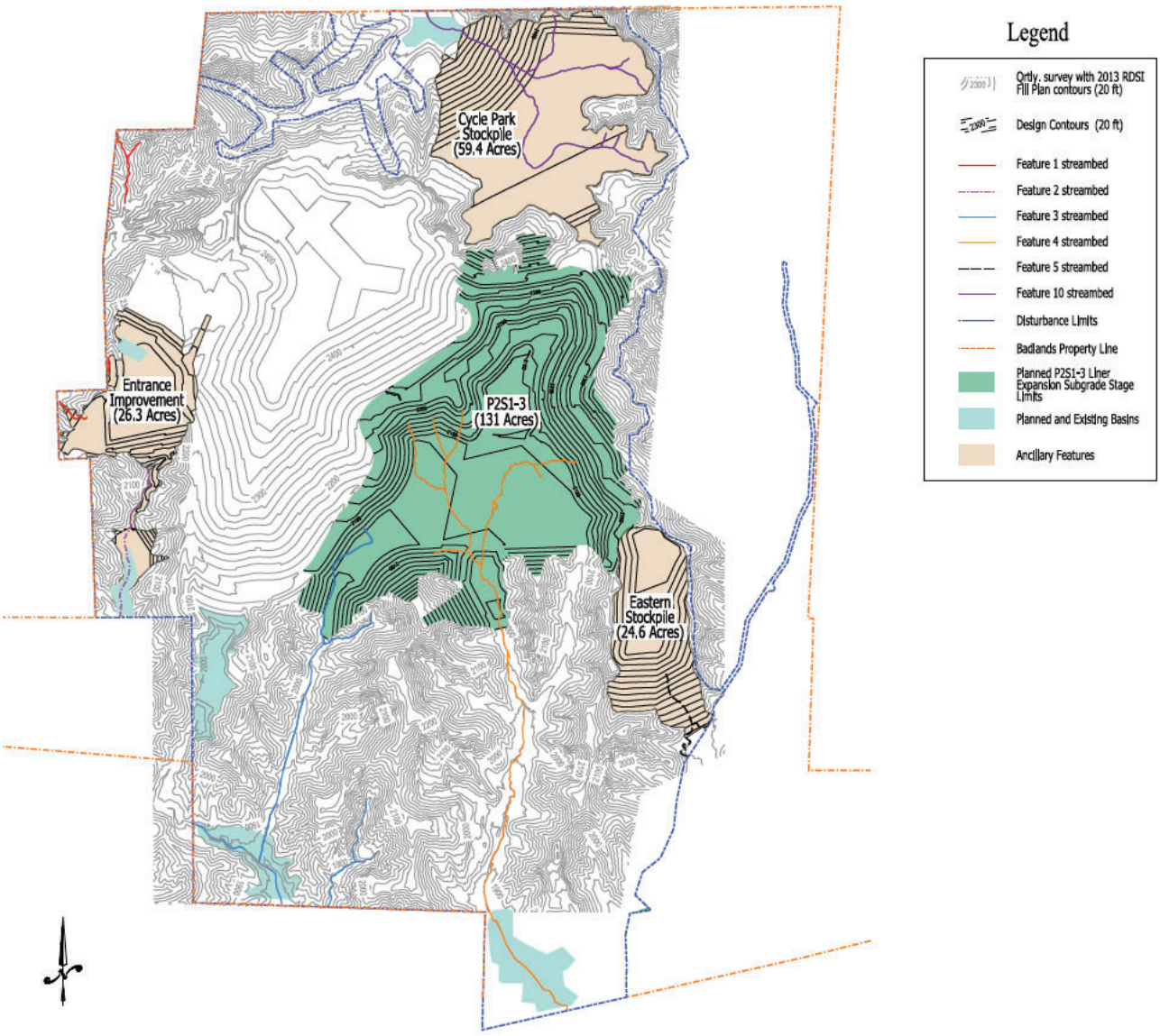


Figure 3. Impacts to Jurisdictional Waters of the State for Phase 2, Stages 1-3

ATTACHMENT B—REPORTS AND NOTIFICATIONS

Copies of this Form
In order to identify your Project, it is necessary to include a copy of the Project-specific Report and Notification Cover Sheet below with your report (see below). Please retain a copy for your records.

Report Submittal Instructions
1) Check the box on the *Report and Notification Cover Sheet* next to the report or notification you are submitting. a) Part A (Annual Report): Submitted annually no later than January 31st of each year until a *Notice of Project Complete Letter* is issued. b) Part B (Project Status Notifications): Used to notify the Santa Ana Water Board of the status of the Project schedule that may affect Project billing. 2) Sign the *Report and Notification Cover Sheet* and attach all information requested for the Report Type. 3) Electronic Report Submittal Instructions: a) Submit signed *Report and Notification Cover Sheet* and required information via email to: RB8-401Reporting@waterboards.ca.gov b) Include in the subject line of the email: Order R8-2024-0046 and Report Type Name c) Additionally, electronically submit Annual Reports using the State Water Board's California Integrated Water Quality System (CIWQS) Program website California Integrated Water Quality System Project (CIWQS) | California State Water Resources Control Board. The CIWQS website will provide additional information for report submittal in the event there will be a planned service interruption for electronic submittal.

Definition of Reporting Terms
1) **Active Discharge Period:** The active discharge period begins with the effective date of this Order and ends on the date that the Discharger receives a *Notice of Completion of Discharges Letter* or, if no post-construction monitoring is required, a *Notice of Project Complete Letter*. The Active Discharge Period includes all elements of the Project, including site construction and restoration, and any Discharger-responsible compensatory mitigation construction. 2) **Request for Notice of Completion of Discharges Letter:** This request by the Discharger to the Santa Ana Water Board staff pertains to projects that have post construction monitoring requirements (e.g., if site restoration were required to be monitored for five (5) years following construction). Santa Ana Water Board staff will review the request and send a *Completion of Discharges Letter* to the Discharger upon approval. This letter will initiate the post-discharge monitoring period and a change in fees from the annual active discharge fee to the annual post-discharge monitoring fee. 3) **Request for Notice of Project Complete Letter:** This request by the Discharger to the Santa Ana Water Board staff pertains to projects that either have completed post-construction monitoring and achieved performance standards or have no post-construction monitoring requirements and no further Project activities are planned. Santa Ana Water Board staff will review the request and send a *Project Complete Letter* to the Discharger upon approval. Termination of annual invoicing of fees will correspond with the expiration or termination by Board action of this Order.

Map/Photo Documentation Information
When submitting maps or photos, please use the following formats. **1. Map Format Information:** Preferred map formats of at least 1:24000 (1" = 2000') detail (listed in order of preference): • **GIS shapefiles:** The shapefiles shall depict the boundaries of all Project areas and extent of aquatic resources impacted. Each shape should be attributed with the extent/type of aquatic resources impacted. Features and boundaries should be accurate to within 33 feet (10 meters). Identify datum/projection used and, if possible, provide map with a North American Datum of 1983 (NAD83) in the California Teale Albers projection in feet. • **Google KML files** saved from Google Maps: My Maps or Google Earth Pro. Maps shall show the boundaries of all Project areas and extent/type of aquatic resources impacted. Include URL(s) of maps. If this format is used, include a

Map/Photo Documentation Information
spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted. • **Other electronic format** (CAD or illustration format) that provides a context for location (inclusion of landmarks, known structures, geographic coordinates, or USGS DRG or DOQQ). Maps shall show the boundaries of all Project areas and extent/type of aquatic resources impacted. If this format is used, include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted. • Aquatic resource maps marked on paper **USGS 7.5-minute topographic maps** or **Digital Orthophoto Quarter Quads (DOQQ)** printouts. Maps shall show the boundaries of all Project areas and extent/type of aquatic resources impacted. If this format is used, include a spreadsheet with the object ID and attributed with the extent/type of aquatic resources impacted. **2. Photo-Documentation:** Include a unique identifier, date stamp, written description of photo details, and latitude/longitude (in decimal degrees) or map indicating location of photo. Successive photos should be taken from the same vantage point to compare pre/post-construction conditions.

Report and Notification Cover Sheet
Project: BADLANDS LANDFILL INTEGRATED PROJECT: PHASE 2, STAGES 1-3
Discharger: RIVERSIDE COUNTY DEPARTMENT OF WASTE RESOURCES
Order No.: R8-2024-0046
Order Effective Date: July 26, 2024

Report Type Submitted
☐ Report Type 1: Annual Report
☐ Report Type 2: Commencement of Construction Report
☐ Report Type 3: Request for Notice of Completion Discharges Letter
☐ Report Type 4: Request for Notice of Project Complete Letter
☐ Report Type 5: Transfer of Property Ownership Report

"I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

_____

STATEMENT OF AUTHORIZATION (include if authorization has changed since application was submitted)

I hereby authorize_____ to act in my behalf as my representative in the submittal of this report, and to furnish upon request supplemental information in support of this submittal.

_____

Report Type 1	**Annual Report**
Purpose:	Notify the Santa Ana Water Board staff of Project status during both the active discharge and post-discharge monitoring periods.
When to Submit:	Annual reports shall be submitted each year by the effective date. Annual reports shall continue until a *Notice of Project Complete Letter* is issued to the Discharger.
Report Contents:	**Part A:** 1. Project progress and schedule, including initial ground disturbance, site clearing and grubbing, road construction, site construction, and the implementation status of construction storm water BMPs. If construction has not started, provide estimated start date and reasons for delay. **Part B:** 1. Planned date of initiation of compensatory mitigation site installation. 2. If installation is in progress, a map of what has been completed to date. 3. If the compensatory mitigation site has been installed, provide a final map and information concerning attainment of performance standards contained in the compensatory mitigation plan. 4. For Mitigation Bank or In-Lieu Fee (ILF) mitigation, status or proof of purchase of credit types and quantities. 5. Include the name of bank/ILF Program and contact information.

Report Type 2	**Commencement of Construction**
Purpose:	Notify the Santa Ana Water Board staff prior to the start of construction.
When to Submit:	Must be received at least seven (7) days to start of initial ground disturbance activities.
Report Contents:	1. Date of commencement of construction. 2. Anticipated date when discharges to waters of the state will occur. 3. Project schedule milestones, including a schedule for onsite compensatory mitigation, if applicable.

Report Type 3	**Request for Notice of Completion of Discharge Letter**
Purpose:	Notify Santa Ana Water Board staff that post-construction monitoring is required and that active Project construction, including any mitigation and Discharger-responsible compensatory mitigation, is complete.
When to Submit:	Must be received by Santa Ana Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents:	**1.** Status of storm water Notice of Termination(s), if applicable. **2.** Status of post-construction storm water BMP installation. **3.** Pre- and post-photo documentation of all Project activity sites where the discharge of dredge and/or fill/excavation was authorized. **4.** Summary of deviation discharge quantities compared to initial authorized impacts to waters of the state, if applicable. **5.** An updated monitoring schedule for mitigation for temporary impacts to waters of the state and Discharger-responsible compensatory mitigation during the post-discharge monitoring period, if applicable.

Report Type 4	**Request for Notice of Project Complete Letter**
Purpose:	Notify Santa Ana Water Board staff that construction and/or any post-construction monitoring is complete, or is not required, and no further Project activity is planned.
When to Submit:	Must be received by Santa Ana Water Board staff within thirty (30) days following completion of all Project activities.
Report Contents:	**Part A: Mitigation for Temporary Impacts** (if applicable) **1.** A report establishing that the performance standards outlined in the restoration plan have been met for Project site upland areas of temporary disturbance that could result in a discharge to waters of the state. **2.** A report establishing that the performance standards outlined in the restoration plan have been met for restored areas of temporary impacts to waters of the state. Pre- and post-photo documentation of all restoration sites.

Report Type 4	**Request for Notice of Project Complete Letter**
	Part B: Discharger-Responsible Compensatory Mitigation (if applicable) **1.** A report establishing that the performance standards outlined in the compensatory mitigation plan have been met. **2.** Status on the implementation of the long-term maintenance and management plan and funding of endowment. **3.** Pre- and post-photo documentation of all compensatory mitigation sites. **4.** Final maps of all compensatory mitigation areas (including buffers).

Report Type 5	**Transfer of Property Ownership**
Purpose:	Notify Santa Ana Water staff of change in ownership of the Project or Discharger-responsible mitigation area.
When to Submit:	At least 30 working days prior to the transfer of ownership.
Report Contents:	1. A statement that the Discharger has provided the purchaser with a copy of this Order and that the purchaser understands and accepts: • the Order's requirements and the obligation to implement them or be subject to administrative and/or civil liability for failure to do so; and • responsibility for compliance with any long-term BMP maintenance plan requirements in this Order. 2. A statement that the Discharger has informed the purchaser to submit a written request to the Santa Ana Water Board to be named as the Discharger in a revised order.

ATTACHMENT C—SIGNATORY REQUIREMENTS

All Documents Submitted in Compliance With this Order Shall Meet the Following Signatory Requirements

1. All applications, reports, or information submitted to the Santa Ana Water Board shall be signed and certified as follows:

    a. For a corporation, by a responsible corporate officer of at least the level of vice-president.
    b. For a partnership or sole proprietorship, by a general partner or proprietor, respectively.
    c. For a municipality, or a State, federal, or other public agency, by either a principal executive officer or ranking elected official.

2. A duly authorized representative of a person designated in items 1.a through 1.c above may sign documents if:

    a. The authorization is made in writing by a person described in items 1.a through 1.c above.

    b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated activity.

    c. The written authorization is submitted to the Santa Ana Water Board staff contact prior to submitting any documents listed in item 1 above.

3. Any person signing a document under this section shall make the following certification:

    “I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.”

Appendix C – Landfill Gas Monitoring and control Information

C-1 Rule 1150.1 Compliance Plan

C-2 Excerpt from the Fourth Quarter 2025 Rule 1150.1 Monitoring Report

C-3 Badlands Sanitary Landfill Gas Monitoring and Control Plan, May 2009

Appendix C

C-1 Rule 1150.1 Compliance Plan

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

May 1, 2018

Mr. Hans Kernkamp
Chief Engineer
Riverside County Waste Management Department
14310 Frederick Street
Moreno Valley, CA 92553

Subject: Riverside County Waste Management, Badlands Landfill (Facility ID 6979)
Title V Facility Permit, Revision No. 7

Dear Mr. Kernkamp,

Enclosed please find the revised Title page, Table of Contents, Section D, and Section I of your Title V Facility Permit. The revised sections reflect the approval of a Minor Permit Revision of the Title V permit. The South Coast Air Quality Management District (SCAQMD) issued a draft permit for the Environmental Protection Agency (EPA) on March 13, 2018. No Public Notice was required for the Revision and no comments were received from the EPA. The revision to Section D and Section I includes the following changes as shown below:

SECTION D, Permit to Operate

Appl. No.	Equipment	Description
444070	Landfill Gas Control and Resource Recovery System	Removal of Landfill Gas Control and Resource Recovery System, as the facility no longer operates the engine (Administrative Revision).

SECTION I, Plans and Schedules

Appl. No.	Plan	Description
342324	Rule 1150.1 Compliance Plan	Removal of previous Rule 1150.1 Compliance Plan, which has been superseded by A/N 522316 (Administrative Revision).
486797	Rule 1110.2 Inspection & Monitoring Plan	Removal of the engine Rule 1110.2 I&M Plan, as the facility no longer operates any engines (Administrative Revision).
522316	Rule 1150.1 Compliance Plan	Incorporation of the Rule 1150.1 Compliance Plan into the Title V Permit.

Please review the attached pages and then insert the enclosed sections of your Title V Facility Permit, and discard the earlier versions. If you have any questions concerning changes to your permit, or if you determine any administrative error, please contact Christopher Gill at (909) 396-2419, or by email at cgill@aqmd.gov, within 30 days of the receipt of your permit.

Sincerely,

Andrew Y. Lee, P.E.
Senior AQ Engineering Manager
Engineering & Permitting

AYL: CDT: AIS: CDG
Attachments
cc: w/ enclosure
Gerardo Rios, EPA Region IX
Compliance
Title V Central File
Application 522316 File

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Title Page	
Facility ID:	006979
Revision #:	7
Date:	May 01, 2018

FACILITY PERMIT TO OPERATE

RIV CO., WASTE MGMT, BADLANDS LANDFILL
31125 IRONWOOD AVE
MORENO VALLEY, CA 92555

NOTICE

IN ACCORDANCE WITH RULE 206, THIS PERMIT TO OPERATE OR A COPY THEREOF MUST BE KEPT AT THE LOCATION FOR WHICH IT IS ISSUED.

THIS PERMIT DOES NOT AUTHORIZE THE EMISSION OF AIR CONTAMINANTS IN EXCESS OF THOSE ALLOWED BY DIVISION 26 OF THE HEALTH AND SAFETY CODE OF THE STATE OF CALIFORNIA OR THE RULES OF THE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT. THIS PERMIT SHALL NOT BE CONSTRUED AS PERMISSION TO VIOLATE EXISTING LAWS, ORDINANCES, REGULATIONS OR STATUTES OF ANY OTHER FEDERAL, STATE OR LOCAL GOVERNMENTAL AGENCIES.

Wayne Nastri
Executive Officer

By FOR
Laki Tisopulos, Ph.D., P.E.
Deputy Executive Officer
Engineering and Permitting

South Coast Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178

Table of Content
Facility ID: 006979
Revision #: 7
Date: May 01, 2018

FACILITY PERMIT TO OPERATE
RIV CO., WASTE MGMT, BADLANDS LANDFILL

TABLE OF CONTENTS

Section	Description	Revision #	Date Issued
A	Facility Information	1	03/28/2014
B	RECLAIM Annual Emission Allocation	1	03/28/2014
C	Facility Plot Plan	TO BE DEVELOPED	
D	Facility Description and Equipment Specific Conditions	6	05/01/2018
E	Administrative Conditions	1	03/28/2014
F	RECLAIM Monitoring and Source Testing Requirements	1	03/28/2014
G	Recordkeeping and Reporting Requirements for RECLAIM Sources	1	03/28/2014
H	Permit To Construct and Temporary Permit to Operate	3	05/13/2016
I	Compliance Plans & Schedules	4	05/01/2018
J	Air Toxics	1	03/28/2014
K	Title V Administration	2	05/13/2016

Appendix

A	NOx and SOx Emitting Equipment Exempt From Written Permit Pursuant to Rule 219	1	03/28/2014
B	Rule Emission Limits	2	05/13/2016