

Haley Griffith (adpce.ad)

Subject: RE: Albemarle AEIR Submittal

From: Christ, Scott <scott.christ@aecom.com>
Sent: Tuesday, July 14, 2026 4:00 PM
To: Richard Bennett (adpce.ad) <richard.bennett@arkansas.gov>
Cc: Stephen Stamps <stephen.stamps@albemarle.com>
Subject: RE: Albemarle AEIR Submittal

CAUTION: External Email

Mr. Bennett,

Please see the attached AEIR's being submitted on behalf of Albemarle Corporation – South Plant in Magnolia, Arkansas. Their respective Permit and AFIN Numbers are as follows:

Solid Waste Disposal Vault, Class 3N Landfill, Permit No. 0251-S3N-R1, AFIN: 14-00028

South Plant Landfill, Class 3N Landfill, Permit No. 0175-S, AFIN: 14-00028

Please let me know if you have any questions or comments

Scott Christ, P.G.

Project Manager, Remediation - Oil & Gas
M 281.728.2997
scott.christ@aecom.com

AECOM

From: Richard Bennett (adpce.ad) <richard.bennett@arkansas.gov>
Sent: Tuesday, June 30, 2026 4:04 PM
To: Christ, Scott <scott.christ@aecom.com>
Subject: RE: Albemarle AEIR Submittal

We grant the extension for 2 weeks.

From: Christ, Scott <scott.christ@aecom.com>
Sent: Tuesday, June 30, 2026 3:57 PM
To: Richard Bennett (adpce.ad) <richard.bennett@arkansas.gov>
Cc: Stephen Stamps <stephen.stamps@albemarle.com>
Subject: Albemarle AEIR Submittal

CAUTION: External Email

Mr. Bennett,

Thank you for taking my call this afternoon. As we discussed, AECOM would like to submit this Request for Extension of Time on behalf of Albemarle Corporation South Plant in Magnolia, Columbia County, Arkansas. AECOM respectfully requests a two week extension to the submittal of the Annual Engineering Inspection Reports for the following landfills:

Solid Waste Disposal Vault, Class 3N Landfill, Permit No. 0251-S3N-R1, AFIN: 14-00028 due to PE stamping issues.

South Plant Landfill, Class 3N Landfill, Permit No. 0175-S, AFIN: 14-00028 due to ACAD issues.

Thank you and sorry for any inconvenience,
Scott Christ

Scott Christ, P.G.

Project Manager, Remediation - Oil & Gas
M 281.728.2997
scott.christ@aecom.com

AECOM

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2025 ANNUAL ENGINEERING
INSPECTION REPORT
ALBEMARLE CORPORATION
SOUTH PLANT LANDFILL
CLASS 3N LANDFILL
PERMIT NO. 0175-S
AFIN: 14-00028

Prepared for:



Albemarle Corporation
2270 Highway 79 South
Magnolia, Arkansas 71753
(870) 235-6500

July 2026

AECOM File: 60785185



8555 United Plaza Blvd., Suite 300
Baton Rouge, LA 70809
Tel: 225-922-5700

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List of Attachments

- Attachment A Site Inspection Form and Photos
- Attachment B Updated Drawings
- Attachment C Leachate Analytical Report
- Attachment D Updated Financial Assurance

ANNUAL ENGINEERING INSPECTION REPORT (AEIR) FORM

Reporting Year: 2025

Note: Check applicable landfill class. Class 1 (Reg 22.423(b)) , Class 3 (22.522(a)) X, Class 4 (22.619(b))

Facility Name: Albemarle South Plant Landfill AFIN: 14-00028 Permit #: 0175-S Landfill Class: 3N

Report Submittal Date: July 13, 2026 Date of Landfill Site Inspection by Certifying Engineer: David S. Lynch, P.E. on 12/29/2025

Complete the form as indicated
Instructions are bolded and italicized.

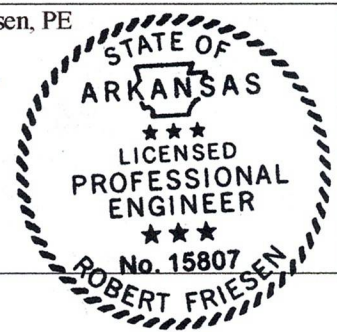
COLUMN TO BE COMPLETED BY REPORTER

Item	Regulation Reference	Item Description	Report Information/Comments/Remarks	Attachment Reference
1	22.423(b)(1) 22.522(a)(1) 22.619(b)(1)	Remaining volume in current cell. <i>Phase 1 of Area IV</i>	a) <u>6,226.71</u> cubic yards <i>(Previous year misreported as 323 CY instead of 6,323 CY [estimated] from CAD)</i>	
		Projected date of opening new cell.	b) Date: <u>None anticipated this calendar year.</u>	
2	22.423(b)(2) 22.522(a)(2) 22.619(b)(2)	Remaining volume of all permitted units.	a) <u>24,281.25</u> cubic yards	
		Total air space used during the reporting period.	b) <u>96.29</u> cubic yards	
		Estimated remaining site life (years) based on utilization rate during the reporting period. <i>Note: Itemize current permitted unit/cell information - use attachment if necessary.</i> <i>Phase 1 of Area IV (1.7 acres) is Active.</i> <i>Phase 2 of Area IV (1.2 acres) is not constructed.</i>	c) Landfill Unit/Cell remaining life: Landfill unit/cell <u>Phase 1 of Area IV</u> , <u>10+</u> years. Landfill unit/cell <u>Phase 2 of Area IV</u> , <u>10+</u> years. Landfill unit/cell <u>Areas I, II, and III</u> , <u>0</u> years. d) Entire permitted landfill: <u>10+</u> years remaining life.	
3	22.423(b)(3) 22.522(a)(3) 22.619(b)(3)	Documentation of fill progression in compliance with permit plans, specs and operating plan and narrative. <i>Note: Provide narrative regarding fill progression during the reporting period. Be specific about landfill unit/cell designations (example: Cell 1, Phase A completely filled; Cell 2, Phase A, 50% full, being filled south to north as of December 31). Specifically note any overfill conditions.</i> <i>Total Permitted Area ~ 15.6 acres (capacity not established)</i> <i>Area IV area ~ 2.9 acres (capacity ~ 40,953 CY)</i>	a) Progression narrative: <u>Phase 1 of Area IV (~1.64 acres) is currently active. Phase 2 of Area IV (~1.34 acres) is not yet constructed. Areas I, II, and III (~11.14 acres) have reached capacity. Phase 1 of Area IV is 59% full. Phase 2 of Area IV will be constructed next. The fill progression is generally from the north to the south in the active area. The landfill is being filled using open trench-fill areas, to the maximum capacity that can be reached without affecting the efficiency of waste placement. Overfill conditions have not been observed.</u>	

4	22.423(b)(4) 22.522(a)(4) 22.619(b)(4)	Documentation of compliance with regulatory operating requirements, permit conditions, approved operating plan, and other applicable regulations. Note: Review current operating plans, and permit conditions. Include photographs of engineer's inspection as Attachment A. Check for weekly/monthly operational logs, waste volume records in and out of landfill, unauthorized waste form sheets, waste cover maintenance, stormwater reports to ADEQ, and wet weather repair information.	a) Weekly/monthly operational logs exist (Y/N)? <u>Y</u> b) Photos of AEIR inspection attached (Y/N)? <u>Y</u> c) Waste volume in and out records exist (Y/N)? <u>Y</u> d) Unauthorized waste forms exist (Y/N)? <u>Y</u> e) Daily/weekly cover adequate at time of inspection (Y/N)? <u>Y</u> f) Alternative Daily Cover (ADC) Plan located onsite (Y/N)? <u>N/A</u> Operations in compliance with ADC Plan (Y/N)? <u>N/A</u> g) Liquid Waste Management (LWM) Plan located onsite (Y/N)? <u>N/A</u> Operations in compliance with LWM Plan (Y/N)? <u>N/A</u> h) Liquids received to be bulked during reporting period: _____ gallons _____ tons i) Waste cover of inactive areas maintained adequately (Y/N)? <u>Y</u> j) Net amount of waste disposed in landfill during reporting period: _____ cubic yards <u>10.65</u> tons k) Leachate head level less than 1' on liner at time of inspection (Y/N)? <u>Y</u>	A
5	22.423(b)(5) 22.522(a)(5) 22.619(b)(5)	Updated contour map that depicts: Note: Provide updated drawing(s) and final cover permit drawing as Attachment B – discuss any discrepancies. Max. contour interval = 2 feet)	a) Updated contour drawing attached (Y/N)? <u>Y</u> b) Final cover permit drawing attached (Y/N)? <u>Y</u> c) List all discrepancies here: <u>NA</u> d) Is there an overfill condition (Y/N)? <u>N</u>	B
		(i) horizontal and vertical extent of active and inactive fill areas;		
		(ii) status of all permitted units/cells; (Note: Label all active (working face, bulking area, stockpiles), inactive, closed and interim cover areas).	a) Currently, does the facility have sufficient on-site quantities and types of soils for liner and cover construction of permitted units/cells (Y/N)? <u>N</u> b) If not, where will deficiency shortfalls be obtained (be specific)? <u>Soil balance not needed, as costs for using all off-site materials were included in cost estimates.</u> c) Is the current Design Narrative earthwork balance accurate (Y/N)? <u>NA</u>	
		(iii) survey grid (required by 22.426); Note: Include benchmarks and horizontal controls		
		(iv) location of other visible surface features or improvements (e.g., roads, buildings, gas control systems, etc.); Note: Include leachate risers, manholes, monitoring wells, gas wells, etc.		
		(v) the person responsible for gathering the survey data and the date survey data was taken to prepare the map. <i>Reminder: Reporting period is calendar year. Survey data should be collected to reflect the AEIR reporting period.</i>	a) Name: <u>Josh Hazen, PLS #1851</u> b) Name of person using the data to produce contour map: <u>Phillip Dempsey</u> c) Date survey data was collected: <u>5/29/2026</u>	

6	22.423(b)(6) 22.522(a)(6) 22.619(b)(6)	Quantity, location, and characteristics of leachate collected, recirculated, and disposed. Note: Provide analytical report as Attachment C. Provide brief narrative on this form in space provided about leachate sources, how leachate is collected, measured and disposed. Also, explain how the leachate head on the landfill liner is monitored and measured.	a) Leachate Collected: <u>5,446,256</u> gallons b) Leachate Disposed: <u>5,446,256</u> gallons c) Leachate Recirculated: <u>0</u> gallons d) Leachate Recirculation Plan exists (Y/N)? <u>N</u> ADEQ approval Doc # <u>N/A</u> e) Leachate operating records exist (Y/N)? <u>Y</u> f) Leachate analytical report attached (Y/N)? <u>Y</u> g) Leachate narrative (collection, measurements and disposal): <u>Leachate is collected from the plant-wide perimeter French drain and in-cell dewatering sump pump. Both sources drain to Sump 13. From Sump 13 leachate is pumped to the facility wastewater treatment system. The analytical reports may show constituents not attributable to the landfill, since the drain collects subsurface water from other areas of the plant. Sumps 4 and 13 are in the vicinity of the landfill.</u> <u>Note: Leachate analytical data provided in Attachment C is grouped together with additional on-site landfill Permit #0251-S3N-R1 reported in a separate AERI Form.</u> h) Leachate narrative (verifying <1' head on liner system): <u>A temporary sump pump operates and pumps stormwater and leachate to collection Sump 13 through dual wall HDPE piping.</u>	C
7	22.423(b)(7) 22.522(a)(7) 22.619(b)(7)	Maintenance of stormwater controls and best management practices for erosion control. Note: List any upset conditions during the reporting period (i.e., washouts, etc...). Also, include narrative about vegetation maintenance and repair.	a) <i>Briefly list maintenance activities and upset conditions here:</i> <u>Stormwater within the constructed area is collected and transferred to the facility wastewater treatment system. Maintenance is performed when necessary to maintain compliance with ADEQ regulations.</u>	
8	22.423(b)(8) 22.619(b)(8)	Status of capping and closure of completed areas. Note: List areas with acreage that have received interim or final cover. Include total landfilled area acreage not yet under final certified closed cover. Note: "Certified closed" means the facility has received an approval letter from ADEQ accepting the engineer's closure certification report. <u>Permitted Units - Areas I, II, III, and IV (~15.6 acres)</u> <u>Currently ~14.4 acres constructed.</u> <u>Phase 2 of Area IV (1.2 acres) is not constructed.</u> <u>Phase 1 of Area IV (1.7 acres) ~ 1.5 acres is filled & covered and ~ 0.2 acres is open.</u>	a) Lndfl unit/cell <u>Areas I, II, and III</u> , <u>11.14</u> acres. Intrm or Final Cover (I/F): <u>Interim Cover</u> b) Lndfl unit/cell <u>Phase 1 of Area IV</u> , <u>1.6</u> acres. Intrm or Final Cover (I/F): <u>Interim Cover</u> c) Lndfl unit/cell _____ , _____ acres. Intrm or Final Cover (I/F): _____ d) Lndfl unit/cell _____ , _____ acres. Intrm or Final Cover (I/F): _____ e) Acres of disposed waste not under final certified cover: <u>12.78</u> acres f) Acres of disposed waste area that have interim cover: <u>12.74</u> acres	
9	22.423(b)(9) 22.522(a)(8) 22.619(b)(9)	Status of remedial or corrective action activities. Note: List corrective action events during reporting period (e.g., seeps and erosion correction, leachate spills, unauthorized waste handling and removal, etc...), and indicate whether action was taken in response to an ADEQ inspection.	a) <i>Briefly list corrective actions events here:</i> <u>New top soil was brought in and seeded in areas that lacked grass as needed.</u> _____ b) Were any of the corrective actions taken in response to an ADEQ inspection (Y/N)? <u>N</u>	

			c) Current status of corrective actions: <u>Complete</u> d) Did corrective actions permanently solve the conditions (Y/N)? <u>Y</u> Explain briefly: <u>Ongoing maintenance and inspections.</u>	
10	22.423(b)(10) 22.522(a)(9) 22.619(b)(10)	Updated Financial Assurance documentation as required by Chapter 14. Note: Include copy of most recent financial assurance documentation as Attachment D. Also, include updated closure and post closure cost estimated as an attachment– recommend to use the Closure Costs and Post-closure Care Costs Worksheet located at ADEQ - Solid Waste - Technical Branch Home Page Specific links to the worksheets: http://www.adeg.state.ar.us/solwaste/branch_technical/pdfs/closure_costs_worksheet.xlsx and http://www.adeg.state.ar.us/solwaste/branch_technical/pdfs/post_closure_care_costs_worksheet.xlsx . Show detailed calculations of cost items in tabular format with specific item breakdowns. Also, show source of unit cost information and/or inflationary factor adjustments – use ADEQ factors where applicable. If updated unit cost information is used instead of inflationary factors, show the source of unit cost information. Confirm estimates are based on largest area ever requiring final cover.	a) Size of the facility property under current permit? <u>14.12</u> acres b) Size of actual permitted disposal area? <u>14.12</u> acres c) What is the current total permitted disposal area that contains disposed waste but is not certified closed? <u>12.78</u> acres d) Updated closure cost estimate amount: \$ <u>1,921,313</u> e) Is the closure cost estimate based on the largest area ever requiring closure (Y/N)? <u>Y</u> f) Is the existing closure financial assurance adequate for acreage not yet certified closed (Y/N)? <u>Y</u> g) Updated post closure care cost estimate amount: \$ <u>467,721</u> h) Is the existing post closure care financial assurance adequate for all permitted areas (Y/N)? <u>Y</u> i) Is the financial assurance mechanism a trust fund (Y/N)? <u>N</u> j) Are the sources of information for updated unit cost line items shown on the cost estimate calculations (Y/N)? <u>N/A</u> k) Do the unit cost items for soil cover material include actual third party cost of materials and labor (Y/N)? <u>Y</u> <u>These 2025 costs were inflated as shown in Attachment D and the 2025 costs were priced using off-site sourced materials with volume calculated to cover the entire landfill, and therefore, a soil balance of the active working area is not required.</u>	D
11	22.423(b)(11) 22.522(a)(10) 22.619(b)(11)	Revised or updated facility Closure Plan in accordance with Chapter 13. Note: Provide updated Closure Plan as Attachment E if facility obtained a permit modification during the reporting period that affects the closure and/or post closure care.	a) Was an updated Closure Plan required during this reporting period (Y/N)? <u>N</u> b) Is an updated Closure Plan attached herein (Y/N)? <u>N</u> (Attachment E not needed).	
12	22.423(b)(12) 22.522(a)(11) 22.619(b)(12)	Other items that affect compliance. Note: Include an ADEQ enforcement activity summary (solid waste, water, air, hazardous waste related) and , status of operating and permit fees. Also, include brief narrative concerning groundwater monitoring reports, landfill gas, leachate recirculation, alternate daily cover, etc...	a) Are there current ADEQ enforcement actions (Y/N)? <u>Y</u> b) Summary of enforcement actions: <u>The landfill is included in a plant-wide response to an order under jurisdiction of the Hazardous Waste Division.</u> c) Are operating and permit fees payments up-to-date (Y/N) ? <u>Y</u> If not explain: _____ _____ Additional Information: d) Does the facility monitor groundwater (Y/N)? <u>Y</u> If so, is it detection monitoring or assessment monitoring?:	

			<u>Detection Monitoring</u> e) What is the groundwater analytical sampling frequency? <u>6</u> months f) Does the facility collect landfill gas (Y/N)? <u>N</u> g) Does the facility have a Gas Monitoring Plan (Y/N)? <u>N</u> h) Does the facility have gas monitoring probes (Y/N)? <u>N</u> i) Does the facility use an alternate daily cover (ADC)(Y/N)? <u>N</u> If so, what type of ADC is used: <u>N/A</u> If so, list document id# approving ADC: _____ j) Does the facility have a Liquid Waste Management (LWM) Plan (Y/N)? <u>N</u> If so, list document id# approving the LWM Plan: <u>N/A</u> k) Date and document id # of currently approved Operating Plan and Narrative: Date: <u>February 16, 1981</u> Doc#: <u>27851</u> l) Date and document id # for currently approved Closure/ Post Closure Plan: Date: <u>February 16, 1981</u> Doc#: <u>27851</u> m) Date and document id # of currently approved Permit Drawings: Date: <u>February 2, 1981</u> Doc#: <u>28301</u> n) Date and document id # of currently approved Design Narrative: Date: <u>February 16, 1981</u> Doc#: <u>27851</u> o) Are weigh scales utilized at the landfill (Y/N)? <u>N</u> p) Does the final cap include a synthetic liner (Y/N)? <u>N</u> q) Does the final cap include clay liner (Y/N)? <u>Y</u> r) Total current permitted landfill volume: <u>110,002.86</u> cubic yards	
13	22.423(b) 22.522(a) 22.619(b)	Certification of AEIR Report: "I have inspected the landfill site and have prepared this report to reflect operational compliance with permit conditions, permit plans, specifications, narrative, and all applicable regulations" <u>Note:</u> The landfill was inspected by my agent, David S. Lynch, PE.	a) Arkansas Licensed Engineer: Robert Friesen, PE Sign: <u>Robert Friesen</u> Date: <u>July 13, 2026</u> b) License Number: 15807 c) <i>Attach seal here:</i>	

Attachment A

Site Inspection Form and Photos

PROJECT: 60785185
INSPECTOR(S): David S Lynch, PE

DATE/TIME: 12/29/2025 9:30A

[illegible]

Facility Name:
Albemarle South Plant

Site Location:
South Plant Landfill, Magnolia, AR

Project No.
60785185

Photo No.
1.

Date:
12/29/2025

Direction Photo Taken:

South

Description:

Secure gate at Landfill
north entrance.



Photo No.
2.

Date:
12/29/2025

Direction Photo Taken:

East

Description:

Secure fencing and good
vegetation along the
outside North perimeter.



Facility Name:
Albemarle South Plant**Site Location:**
South Plant Landfill, Magnolia, AR**Project No.**
60785185**Photo No.**
3.**Date:**
12/29/2025**Direction Photo Taken:**

Southeast

Description:Uncovered Area of the
Landfill.**Photo No.**
4.**Date:**
12/29/2025**Direction Photo Taken:**

North

Description:Looking North, backfill
material.

Facility Name:
Albemarle South Plant

Site Location:
South Plant Landfill, Magnolia, AR

Project No.
60785185

Photo No.
5.

Date:
12/29/2025

Direction Photo Taken:

East

Description:

Secured South Gate; road access to east perimeter.



Photo No.
6.

Date:
12/29/2025

Direction Photo Taken:

Southwest

Description:

Surface water pump station.



Facility Name:
Albemarle South Plant

Site Location:
South Plant Landfill, Magnolia, AR

Project No.
60785185

Photo No.
7.

Date:
12/29/2025

Direction Photo Taken:

Northeast

Description:

Surface water runoff collection, east.



Photo No.
8.

Date:
12/29/2025

Direction Photo Taken:

Northwest

Description:

Surface water runoff collection, west.



Facility Name:
Albemarle South Plant**Site Location:**
South Plant Landfill, Magnolia, AR**Project No.**
60785185**Photo No.**
9.**Date:**
12/29/2025**Direction Photo Taken:**

Northwest

Description:

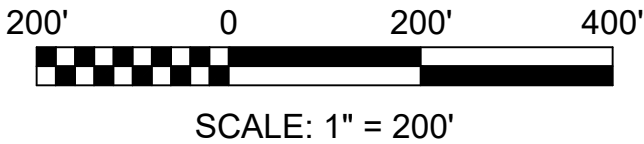
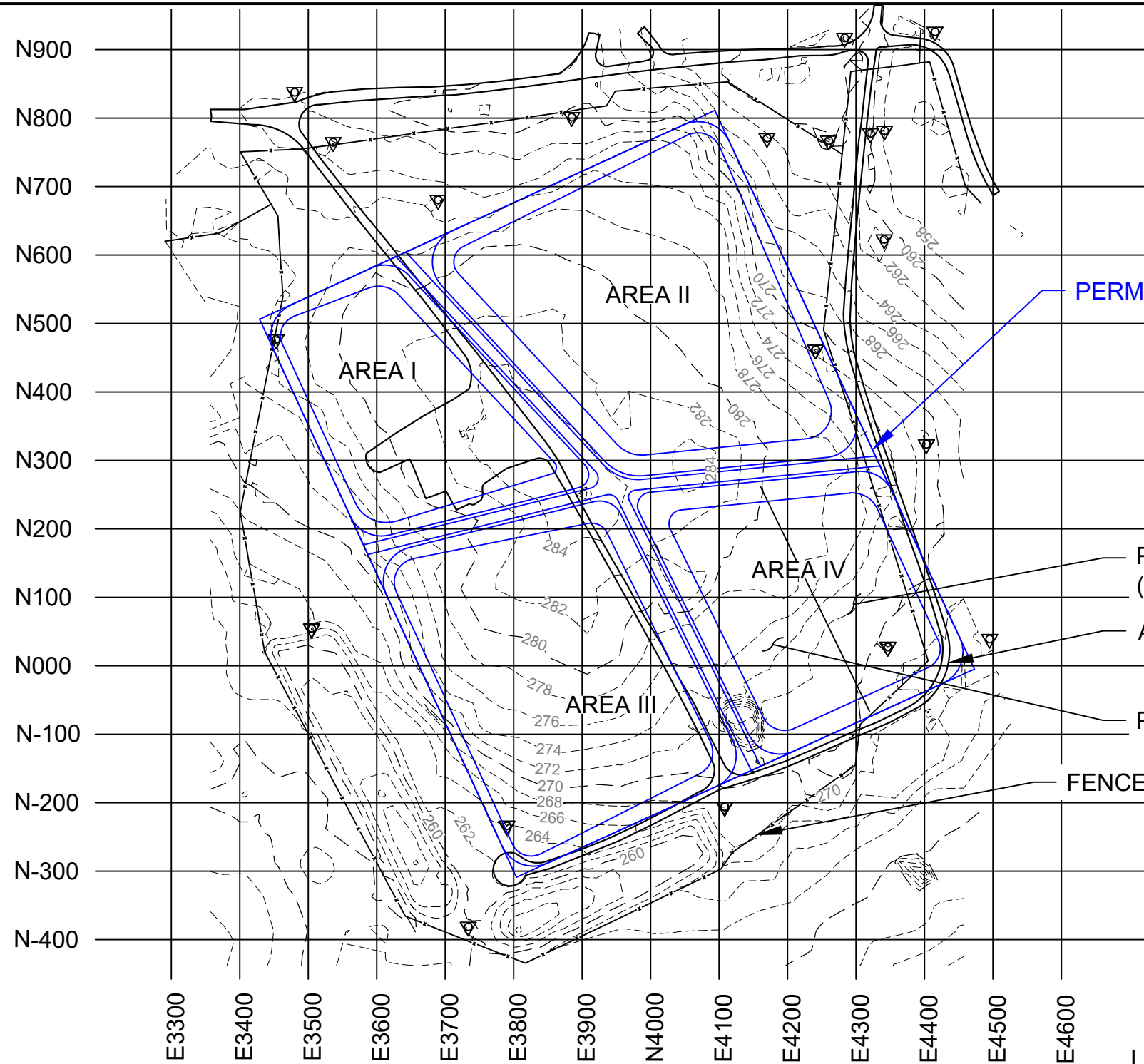
West perimeter fencing.



Attachment B

Updated Drawings

C:\USERS\PHILLIP.DEMPSEY\ONE DRIVE - AECOM\DOCUMENTS\ALBEMARLE\SURFACE_ALBEMARLE_SPLF.DWG - Existing Conditions & Final Cover - 6/24/2026 10:20 AM



EXISTING CONDITIONS PLAN
SCALE: 1" = 200'

LEGEND:

- MONITORING WELL
CHAIN LINK FENCE
PERMITTED FINAL COVER

SPLF DESIGN QUANTITIES - 2025 AUTOCAD CIVIL 3D CALCULATIONS

TOTAL LANDFILL AREA = 14.12 ACRES
FINAL COVER MATERIAL (2.5') = 52,597.36 CY
(TOP OF FINAL COVER TO BOTTOM OF WASTE)= 153,277.60 CY

SPLF WASTE QUANTITIES - 2026 AUTOCAD CIVIL 3D CALCULATIONS

EXISTING WASTE PLACED IN LANDFILL TO DATE = 78,350.63 CY
REMAINING WASTE/REMAINING AIR SPACE = 24,281.25 CY
PERMITTED TOTAL WASTE VOLUME= 100,680.24 CY

SPLF AREA CALCULATIONS		
AREA #	AREA (ACRES)	PERMITTED WASTE VOLUME (CY)
1	2.48	15696.12
2	4.64	36861.68
3	4.02	24300.61
4 (PHASE I)	1.64	13224.69
4 (PHASE II)	1.34	10597.14
TOTAL	14.12	100680.24

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REV	DESCRIPTION OF REVISION	BY	DATE

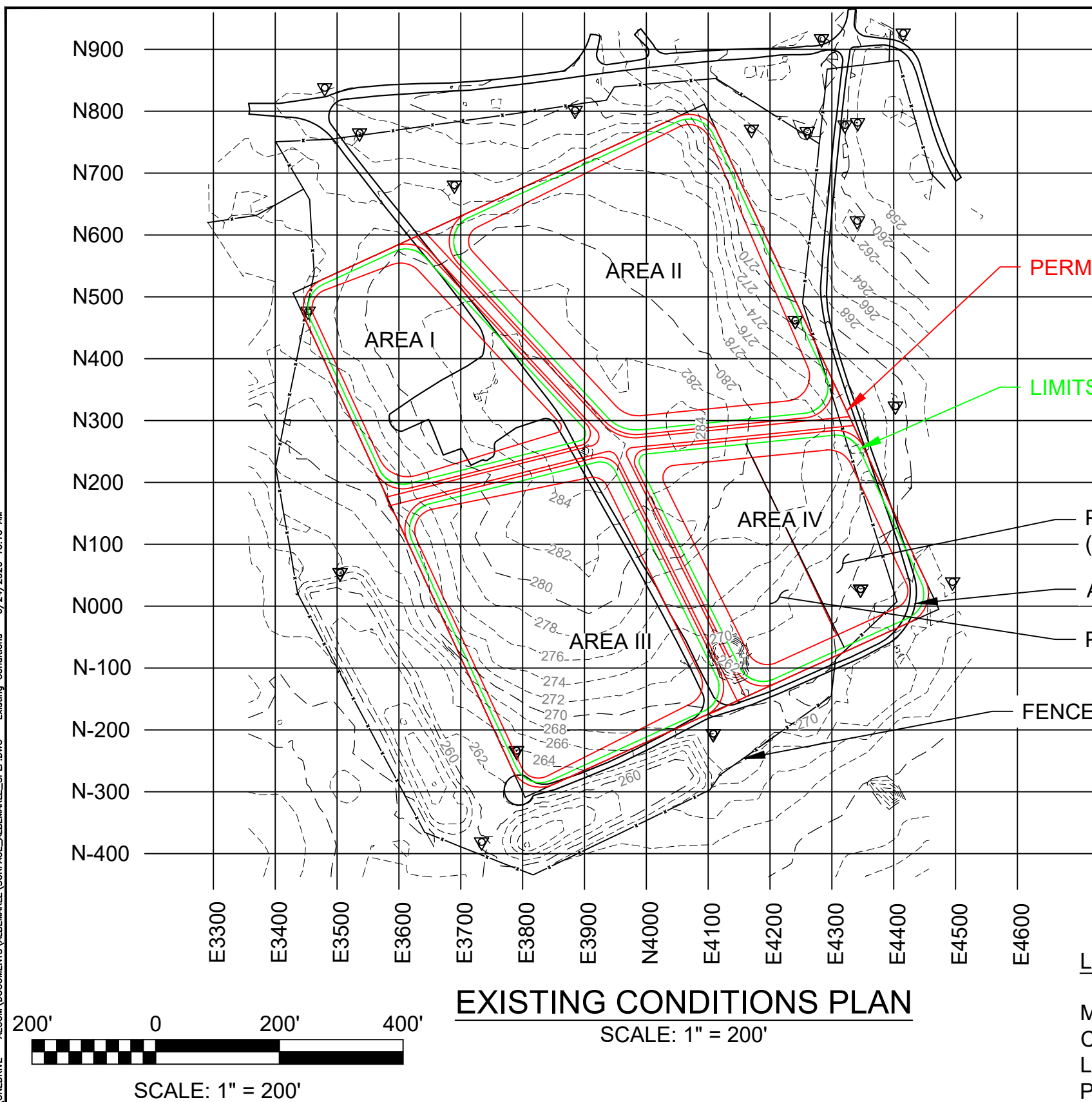
AECOM
8555 United Plaza Blvd., Suite 300
Baton Rouge, Louisiana 70809
225-922-5700

REFERENCE DRAWINGS

SCALE
AS SHOWN
DESIGNED
DRAWN PD
CHECKED CS
PEER REVIEWED
DATE 06/26/26

ALBEMARLE SOUTH PLAN MAGNOLIA, ARKANSAS 2025 ANNUAL ENGINEERING INSPECTION REPORT
SOUTH PLANT LANDFILL EXISTING CONDITIONS AND PERMITTED FINAL COVER MAY 29, 2026 TOPOGRAPHIC SURVEY

REVISION
△
PROJECT 60785185
FIGURE 3



LEGEND:

MONITORING WELL CHAIN LINK FENCE LIMITS OF WASTE PERMITTED FOOTPRINT

NOTES:

1. EXISTING CONDITIONS BASED UPON TOPOGRAPHIC SURVEY PERFORMED BY LANDPOINT AND JOSHUA G. HAZEN, PLS NO. 1851 PERFORMED ON MAY 29, 2026
2. PERMITTED WASTE AREA AND VOLUMES WERE DETERMINED USING THE PERMITTED LANDFILL DESIGN DRAWINGS SUBMITTED IN THE DECEMBER 2012 ADMINISTRATIVE PERMIT MODIFICATION TO THE ADEQ, ADEQ ELECTRONIC FILE NO. 63636

SPLF DESIGN QUANTITIES - 2025 AUTOCAD CIVIL 3D CALCULATIONS

TOTAL LANDFILL AREA =	14.12 ACRES
FINAL COVER MATERIAL (2.5') =	52,597.36 CY
(TOP OF FINAL COVER TO BOTTOM OF WASTE)=	153,277.60 CY

SPLF WASTE QUANTITIES - 2026 AUTOCAD CIVIL 3D CALCULATIONS

EXISTING WASTE PLACED IN LANDFILL TO DATE =	78,350.63 CY
REMAINING WASTE/REMAINING AIR SPACE =	24,281.25 CY
PERMITTED TOTAL WASTE VOLUME=	100,680.24 CY

SPLF AREA CALCULATIONS		
AREA #	AREA (ACRES)	PERMITTED WASTE VOLUME (CY)
1	2.48	15696.12
2	4.64	36861.68
3	4.02	24300.61
4 (PHASE I)	1.64	13224.69
4 (PHASE II)	1.34	10597.14
TOTAL	14.12	100680.24

SCALE: 1" = 200'

EXISTING CONDITIONS PLAN

SCALE: 1" = 200'

AECOM

8555 United Plaza Blvd., Suite 300
Baton Rouge, Louisiana 70809
225-922-5700

REFERENCE DRAWINGS

SCALE	AS SHOWN
DESIGNED	
DRAWN	PD
CHECKED	CS
PEER REVIEWED	
DATE	06/26/26

ALBEMARLE SOUTH PLAN
MAGNOLIA, ARKANSAS
2025 ANNUAL ENGINEERING INSPECTION REPORT

SOUTH PLANT LANDFILL
EXISTING CONDITIONS
DECEMBER 31, 2024 THRU MAY 29, 2026

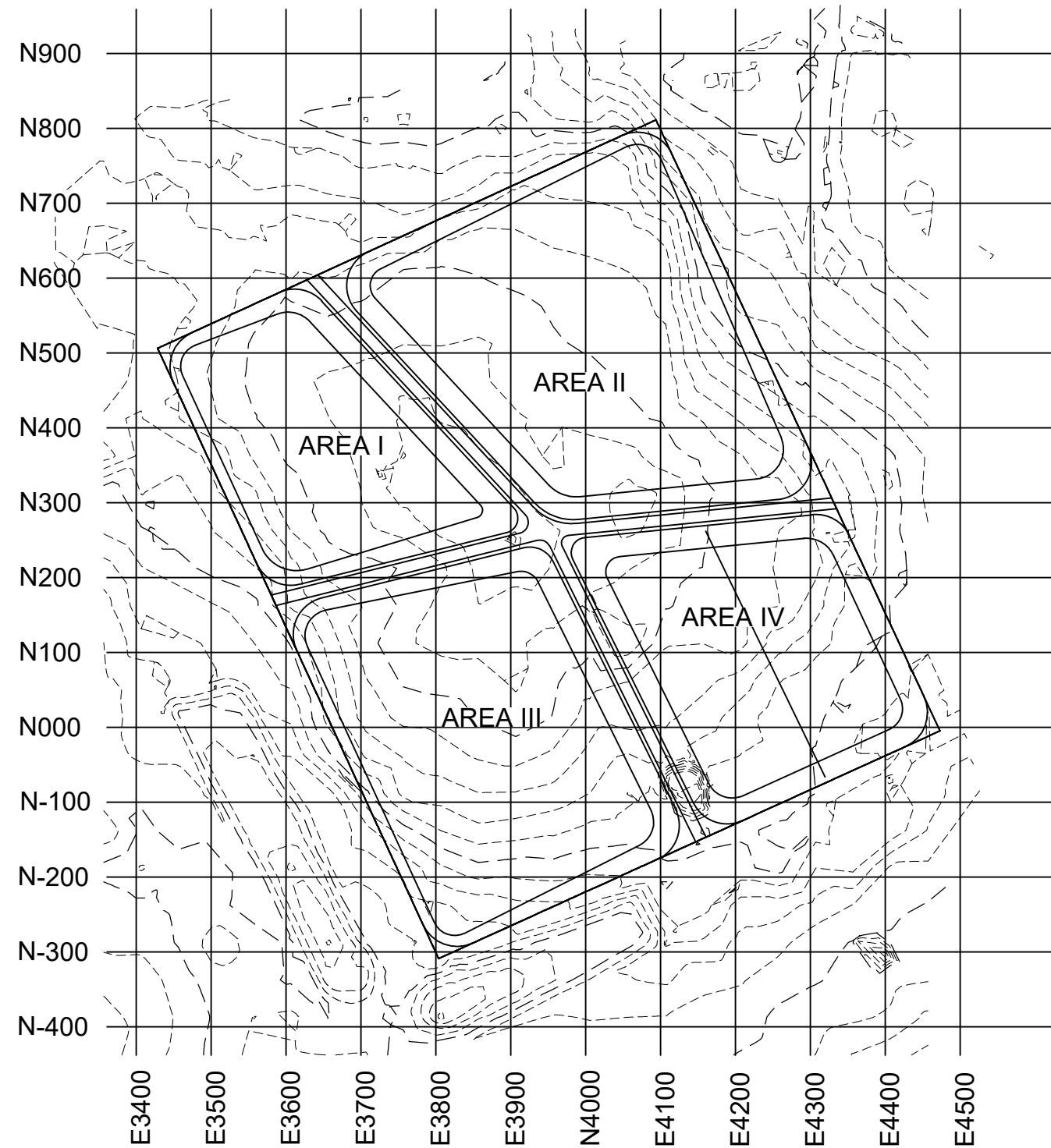
REVISION

PROJECT	60305105
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FIGURE

1

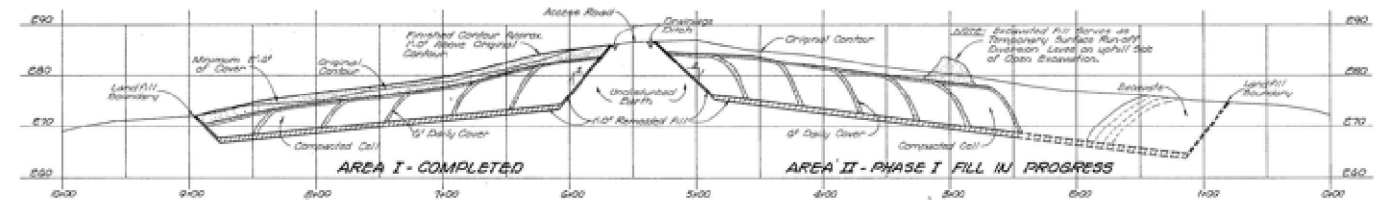
C:\USERS\PHILLIP.DEMPSEY\ONE DRIVE - AECOM\DOCUMENTS\ALBEMARLE\SURFACE_ALBEMARLE_SPL.FDWG - Final Cover Plan - 6/24/2026 10:19 AM



FINAL COVER PLAN
SCALE: 1" = 200'

NOTES:

1. FINAL COVER PLAN, FINISH GRADE PLAN, AND TYPICAL SECTION WERE TAKEN FROM 1981 ETHYL CORPORATION SANITARY LANDFILL PRELIMINARY PACKAGE



SCALE: 1" = 200'

REV	DESCRIPTION OF REVISION	BY	DATE
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ALBEMARLE SOUTH PLAN
MAGNOLIA, ARKANSAS
2025 ANNUAL ENGINEERING INSPECTION REPORT

SOUTH PLANT LANDFILL
FINAL COVER PLAN
DECEMBER 31, 2024 THRU MAY 29, 2026

REVISION
△
PROJECT
6078185
FIGURE
2

Attachment C

Leachate Analytical Report

ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Stephen Stamps
Albemarle Corporation
2270 Highway 79 South
Magnolia, Arkansas 71753

Generated 10/30/2025 10:01:07 AM

JOB DESCRIPTION

South Plant Sumps (RADD)

JOB NUMBER

192-25235-1

Eurofins Arkansas

Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization



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Definitions/Glossary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
ES	The analyte response has saturated the instrument detector. The reported concentration is likely to have a low bias and should be considered a minimum possible concentration.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Albemarle Corporation
Project: South Plant Sumps (RADD)

Job ID: 192-25235-1

Job ID: 192-25235-1

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Job Narrative 192-25235-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 10/9/2025 2:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 0.1°C and 0.1°C.

GC/MS VOA

Method 8260D: Surrogate recovery for the following samples were outside control limits: Sump-1-20251009 (192-25235-1) and Sump-1-20251009 Dup (192-25235-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D: Due to the high concentration of Bromodichloromethane, Bromoform, Dibromochloromethane and Dibromomethane, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 192-40598 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260D: Due to the high concentration of 1,2-Dichloroethane, 1-Bromo-2-chloroethane, Bromochloromethane, Dibromochloromethane and Dibromomethane, the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 192-40603 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8260D: Surrogate recovery for the following sample was outside control limits: Sump-11-20251009 (192-25235-6). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8260D_SIM: The following samples marked as an estimated value, by 8260.SIM, due to the value being above the calibration range. No dilution was performed. The samples are positive and within the calibration range for the standard EPA.8260 method.

Sump-1-20251009 (192-25235-1), Sump-1-20251009 Dup (192-25235-2), Sump-2-20251009 (192-25235-3), Sump-3-20251009 (192-25235-4), Sump-11-20251009 (192-25235-6) and Sump-12-20251009 (192-25235-7)

Method 8260D_SIM: The continuing calibration verification (CCV) associated with batch 192-40723 exhibited % difference of > 20% for the following analyte(s) 1,2-Dibromo-3-Chloropropane; however, the results were within the LCS acceptance limits. The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria.

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

HPLC/IC

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

Metals

Method 6020B: The following samples were diluted due to the nature of the sample matrix: Sump-1-20251009 (192-25235-1), Sump-1-20251009 Dup (192-25235-2), Sump-2-20251009 (192-25235-3), Sump-3-20251009 (192-25235-4) and Sump-4-20251009 (192-25235-5). Elevated reporting limits (RLs) are provided.

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Case Narrative

Client: Albemarle Corporation
Project: South Plant Sumps (RADD)

Job ID: 192-25235-1

Job ID: 192-25235-1 (Continued)

Eurofins Arkansas

Method 6020B: The following samples were diluted due to the nature of the sample matrix: Sump-1-20251009 (192-25235-1), Sump-1-20251009 Dup (192-25235-2), Sump-2-20251009 (192-25235-3), Sump-3-20251009 (192-25235-4) and Sump-4-20251009 (192-25235-5). Elevated reporting limits (RLs) are provided.

Method 6020B: The following sample was diluted due to the nature of the sample matrix: Sump-11-20251009 (192-25235-6). Elevated reporting limits (RLs) are provided.

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 860-269524 and 860-271286 and analytical batch 860-271663 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

General Chemistry

Method 9020B_Calc: Breakthrough exceeded 10% for the following samples: Sump-P-20251009 (192-25235-9).

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

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-1-20251009

Lab Sample ID: 192-25235-1

Date Collected: 10/09/25 09:55

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	46	E	0.20		ug/L			10/18/25 00:35	1
1,2-Dibromoethane	6400	E	0.050		ug/L			10/18/25 00:35	1
1,1,2,2-Tetrachloroethane	9.9	E	0.076		ug/L			10/18/25 00:35	1
1,2,3-Trichloropropane	1.7		0.020		ug/L			10/18/25 00:35	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	8.6		5.0		ug/L			10/16/25 01:42	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 01:42	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 01:42	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/16/25 01:42	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 01:42	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 01:42	1
1,2-Dibromo-3-Chloropropane	34		5.0		ug/L			10/16/25 01:42	1
1,2-Dibromoethane	6000		500		ug/L			10/16/25 02:42	100
1,2-Dichloroethane	7400		500		ug/L			10/16/25 02:42	100
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 01:42	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 01:42	1
1,3-Dichloropropane	26		5.0		ug/L			10/16/25 01:42	1
1-Bromo-2-chloroethane	3600		500		ug/L			10/16/25 02:42	100
Benzene	<5.0		5.0		ug/L			10/16/25 01:42	1
Bromochloromethane	950		50		ug/L			10/16/25 02:12	10
Bromodichloromethane	430		50		ug/L			10/16/25 02:12	10
Bromoform	19000		5000		ug/L			10/16/25 18:53	1000
Carbon disulfide	22		10		ug/L			10/16/25 01:42	1
Carbon tetrachloride	130		20		ug/L			10/16/25 02:12	10
Chloroform	46		4.0		ug/L			10/16/25 01:42	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/16/25 01:42	1
Dibromochloromethane	2800		500		ug/L			10/16/25 02:42	100
Dibromomethane	4400		500		ug/L			10/16/25 02:42	100
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 01:42	1
Methylene Chloride	510		50		ug/L			10/16/25 02:12	10
Styrene	<5.0		5.0		ug/L			10/16/25 01:42	1
Tetrachloroethene	5.5		5.0		ug/L			10/16/25 01:42	1
Toluene	6.9		5.0		ug/L			10/16/25 01:42	1
Trichloroethene	13		5.0		ug/L			10/16/25 01:42	1
Vinyl chloride	21		2.0		ug/L			10/16/25 01:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	168	S1+	80 - 120		10/16/25 01:42	1
4-Bromofluorobenzene (Surr)	109		80 - 120		10/16/25 02:12	10
4-Bromofluorobenzene (Surr)	100		80 - 120		10/16/25 02:42	100
4-Bromofluorobenzene (Surr)	99		80 - 120		10/16/25 18:53	1000
Dibromofluoromethane (Surr)	98		80 - 120		10/16/25 01:42	1
Dibromofluoromethane (Surr)	102		80 - 120		10/16/25 02:12	10
Dibromofluoromethane (Surr)	100		80 - 120		10/16/25 02:42	100
Dibromofluoromethane (Surr)	99		80 - 120		10/16/25 18:53	1000
Toluene-d8 (Surr)	101		80 - 120		10/16/25 01:42	1
Toluene-d8 (Surr)	99		80 - 120		10/16/25 02:12	10
Toluene-d8 (Surr)	101		80 - 120		10/16/25 02:42	100

Eurofins Arkansas

Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-1-20251009

Lab Sample ID: 192-25235-1

Date Collected: 10/09/25 09:55

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		10/16/25 18:53	1000

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	560		200		mg/L			10/15/25 18:33	1000
Chloride	3000		200		mg/L			10/15/25 18:33	1000
Sulfate	220		2.0		mg/L			10/15/25 05:38	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.020		0.020		mg/L		10/27/25 12:22	10/28/25 14:45	5
Lead	<0.010		0.010		mg/L		10/27/25 12:22	10/28/25 03:53	5

Client Sample ID: Sump-1-20251009 Dup

Lab Sample ID: 192-25235-2

Date Collected: 10/09/25 09:55

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	47	E	0.20		ug/L			10/18/25 01:00	1
1,2-Dibromoethane	6300	E	0.050		ug/L			10/18/25 01:00	1
1,1,2,2-Tetrachloroethane	9.9	E	0.076		ug/L			10/18/25 01:00	1
1,2,3-Trichloropropane	1.7		0.020		ug/L			10/18/25 01:00	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	9.0		5.0		ug/L			10/16/25 03:12	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 03:12	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 03:12	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/16/25 03:12	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 03:12	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 03:12	1
1,2-Dibromo-3-Chloropropane	36		5.0		ug/L			10/16/25 03:12	1
1,2-Dibromoethane	6300		500		ug/L			10/16/25 04:12	100
1,2-Dichloroethane	7700		500		ug/L			10/16/25 04:12	100
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 03:12	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 03:12	1
1,3-Dichloropropane	27		5.0		ug/L			10/16/25 03:12	1
1-Bromo-2-chloroethane	3500		500		ug/L			10/16/25 04:12	100
Benzene	<5.0		5.0		ug/L			10/16/25 03:12	1
Bromochloromethane	970		50		ug/L			10/16/25 03:42	10
Bromodichloromethane	450		50		ug/L			10/16/25 03:42	10
Bromoform	19000		5000		ug/L			10/16/25 19:23	1000
Carbon disulfide	25		10		ug/L			10/16/25 03:12	1
Carbon tetrachloride	150		20		ug/L			10/16/25 03:42	10
Chloroform	46		4.0		ug/L			10/16/25 03:12	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/16/25 03:12	1
Dibromochloromethane	3000		500		ug/L			10/16/25 04:12	100
Dibromomethane	4500		500		ug/L			10/16/25 04:12	100
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 03:12	1

Eurofins Arkansas

Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-1-20251009 Dup

Lab Sample ID: 192-25235-2

Date Collected: 10/09/25 09:55

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	500		50		ug/L			10/16/25 03:42	10
Styrene	<5.0		5.0		ug/L			10/16/25 03:12	1
Tetrachloroethene	6.2		5.0		ug/L			10/16/25 03:12	1
Toluene	8.0		5.0		ug/L			10/16/25 03:12	1
Trichloroethene	15		5.0		ug/L			10/16/25 03:12	1
Vinyl chloride	21		2.0		ug/L			10/16/25 03:12	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	184	S1+	80 - 120					10/16/25 03:12	1
4-Bromofluorobenzene (Surr)	109		80 - 120					10/16/25 03:42	10
4-Bromofluorobenzene (Surr)	99		80 - 120					10/16/25 04:12	100
4-Bromofluorobenzene (Surr)	101		80 - 120					10/16/25 19:23	1000
Dibromofluoromethane (Surr)	96		80 - 120					10/16/25 03:12	1
Dibromofluoromethane (Surr)	101		80 - 120					10/16/25 03:42	10
Dibromofluoromethane (Surr)	99		80 - 120					10/16/25 04:12	100
Dibromofluoromethane (Surr)	99		80 - 120					10/16/25 19:23	1000
Toluene-d8 (Surr)	100		80 - 120					10/16/25 03:12	1
Toluene-d8 (Surr)	100		80 - 120					10/16/25 03:42	10
Toluene-d8 (Surr)	101		80 - 120					10/16/25 04:12	100
Toluene-d8 (Surr)	98		80 - 120					10/16/25 19:23	1000

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	540		200		mg/L			10/15/25 18:56	1000
Chloride	2800		200		mg/L			10/15/25 18:56	1000
Sulfate	230		2.0		mg/L			10/15/25 06:00	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.020		0.020		mg/L		10/27/25 12:22	10/28/25 14:49	5
Lead	<0.010		0.010		mg/L		10/27/25 12:22	10/28/25 03:56	5

Client Sample ID: Sump-2-20251009

Lab Sample ID: 192-25235-3

Date Collected: 10/09/25 10:50

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	4.9		0.20		ug/L			10/17/25 23:45	1
1,2-Dibromoethane	670	E	0.050		ug/L			10/17/25 23:45	1
1,1,2,2-Tetrachloroethane	24	E	0.076		ug/L			10/17/25 23:45	1
1,2,3-Trichloropropane	0.81		0.020		ug/L			10/17/25 23:45	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	23		5.0		ug/L			10/15/25 20:52	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 20:52	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 20:52	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 20:52	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/15/25 20:52	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 20:52	1

Eurofins Arkansas

Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-2-20251009

Lab Sample ID: 192-25235-3

Date Collected: 10/09/25 10:50

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 20:52	1
1,2-Dibromoethane	120		50		ug/L			10/15/25 21:18	10
1,2-Dichloroethane	140		50		ug/L			10/15/25 21:18	10
1,2-Dichloropropane	<5.0		5.0		ug/L			10/15/25 20:52	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 20:52	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/15/25 20:52	1
1-Bromo-2-chloroethane	56		5.0		ug/L			10/15/25 20:52	1
Benzene	<5.0		5.0		ug/L			10/15/25 20:52	1
Bromochloromethane	15		5.0		ug/L			10/15/25 20:52	1
Bromodichloromethane	14		5.0		ug/L			10/15/25 20:52	1
Bromoform	530		50		ug/L			10/15/25 21:18	10
Carbon disulfide	<10		10		ug/L			10/15/25 20:52	1
Carbon tetrachloride	8.0		2.0		ug/L			10/15/25 20:52	1
Chloroform	6.9		4.0		ug/L			10/15/25 20:52	1
cis-1,2-Dichloroethene	5.9		5.0		ug/L			10/15/25 20:52	1
Dibromochloromethane	78		5.0		ug/L			10/15/25 20:52	1
Dibromomethane	71		5.0		ug/L			10/15/25 20:52	1
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 20:52	1
Methylene Chloride	13		5.0		ug/L			10/15/25 20:52	1
Styrene	<5.0		5.0		ug/L			10/15/25 20:52	1
Tetrachloroethene	<5.0		5.0		ug/L			10/15/25 20:52	1
Toluene	<5.0		5.0		ug/L			10/15/25 20:52	1
Trichloroethene	10		5.0		ug/L			10/15/25 20:52	1
Vinyl chloride	<2.0		2.0		ug/L			10/15/25 20:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120		10/15/25 20:52	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/15/25 21:18	10
Dibromofluoromethane (Surr)	102		80 - 120		10/15/25 20:52	1
Dibromofluoromethane (Surr)	97		80 - 120		10/15/25 21:18	10
Toluene-d8 (Surr)	100		80 - 120		10/15/25 20:52	1
Toluene-d8 (Surr)	98		80 - 120		10/15/25 21:18	10

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	340		20		mg/L			10/15/25 06:23	100
Chloride	1300		200		mg/L			10/15/25 20:04	1000
Sulfate	74		20		mg/L			10/15/25 06:23	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.020		0.020		mg/L		10/27/25 12:22	10/28/25 14:52	5
Lead	0.13		0.010		mg/L		10/27/25 12:22	10/28/25 04:00	5

Client Sample ID: Sump-3-20251009

Lab Sample ID: 192-25235-4

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	5.7	E	0.20		ug/L			10/18/25 01:24	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-3-20251009

Lab Sample ID: 192-25235-4

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	66	E	0.050		ug/L			10/18/25 01:24	1
1,1,2,2-Tetrachloroethane	200	E	0.076		ug/L			10/18/25 01:24	1
1,2,3-Trichloropropane	8.7	E	0.020		ug/L			10/18/25 01:24	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	160		50		ug/L			10/15/25 22:10	10
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 21:44	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 21:44	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 21:44	1
1,2,3-Trichloropropane	7.1		5.0		ug/L			10/15/25 21:44	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 21:44	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 21:44	1
1,2-Dibromoethane	220		50		ug/L			10/15/25 22:10	10
1,2-Dichloroethane	330		50		ug/L			10/15/25 22:10	10
1,2-Dichloropropane	<5.0		5.0		ug/L			10/15/25 21:44	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 21:44	1
1,3-Dichloropropane	13		5.0		ug/L			10/15/25 21:44	1
1-Bromo-2-chloroethane	91		5.0		ug/L			10/15/25 21:44	1
Benzene	18		5.0		ug/L			10/15/25 21:44	1
Bromochloromethane	25		5.0		ug/L			10/15/25 21:44	1
Bromodichloromethane	14		5.0		ug/L			10/15/25 21:44	1
Bromoform	810		50		ug/L			10/15/25 22:10	10
Carbon disulfide	<10		10		ug/L			10/15/25 21:44	1
Carbon tetrachloride	8.4		2.0		ug/L			10/15/25 21:44	1
Chloroform	<4.0		4.0		ug/L			10/15/25 21:44	1
cis-1,2-Dichloroethene	9.4		5.0		ug/L			10/15/25 21:44	1
Dibromochloromethane	98		50		ug/L			10/15/25 22:10	10
Dibromomethane	120		50		ug/L			10/15/25 22:10	10
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 21:44	1
Methylene Chloride	21		5.0		ug/L			10/15/25 21:44	1
Styrene	<5.0		5.0		ug/L			10/15/25 21:44	1
Tetrachloroethene	<5.0		5.0		ug/L			10/15/25 21:44	1
Toluene	15		5.0		ug/L			10/15/25 21:44	1
Trichloroethene	25		5.0		ug/L			10/15/25 21:44	1
Vinyl chloride	2.6		2.0		ug/L			10/15/25 21:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		80 - 120		10/15/25 21:44	1
4-Bromofluorobenzene (Surr)	98		80 - 120		10/15/25 22:10	10
4-Bromofluorobenzene (Surr)	97		80 - 120		10/15/25 22:36	100
Dibromofluoromethane (Surr)	102		80 - 120		10/15/25 21:44	1
Dibromofluoromethane (Surr)	98		80 - 120		10/15/25 22:10	10
Dibromofluoromethane (Surr)	97		80 - 120		10/15/25 22:36	100
Toluene-d8 (Surr)	100		80 - 120		10/15/25 21:44	1
Toluene-d8 (Surr)	96		80 - 120		10/15/25 22:10	10
Toluene-d8 (Surr)	96		80 - 120		10/15/25 22:36	100

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-3-20251009

Lab Sample ID: 192-25235-4

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	380		20		mg/L			10/15/25 06:46	100
Chloride	4900		20		mg/L			10/15/25 06:46	100
Sulfate	320		20		mg/L			10/15/25 06:46	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.020		0.020		mg/L		10/27/25 12:22	10/28/25 14:55	5
Lead	<0.010		0.010		mg/L		10/27/25 12:22	10/28/25 04:03	5

Client Sample ID: Sump-4-20251009

Lab Sample ID: 192-25235-5

Date Collected: 10/09/25 11:00

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 16:13	1
1,2-Dibromoethane	2.4		0.050		ug/L			10/17/25 16:13	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 16:13	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 16:13	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/16/25 00:12	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 00:12	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 00:12	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 00:12	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/16/25 00:12	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/16/25 00:12	1
Benzene	<5.0		5.0		ug/L			10/16/25 00:12	1
Bromochloromethane	34		5.0		ug/L			10/16/25 00:12	1
Bromodichloromethane	140		50		ug/L			10/16/25 17:23	10
Bromoform	18000		5000		ug/L			10/16/25 18:23	1000
Carbon disulfide	<10		10		ug/L			10/16/25 00:12	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/16/25 00:12	1
Chloroform	89		4.0		ug/L			10/16/25 00:12	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/16/25 00:12	1
Dibromochloromethane	1300		500		ug/L			10/16/25 17:53	100
Dibromomethane	700		50		ug/L			10/16/25 17:23	10
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 00:12	1
Methylene Chloride	6.4		5.0		ug/L			10/16/25 00:12	1
Styrene	<5.0		5.0		ug/L			10/16/25 00:12	1
Tetrachloroethene	<5.0		5.0		ug/L			10/16/25 00:12	1
Toluene	<5.0		5.0		ug/L			10/16/25 00:12	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-4-20251009

Lab Sample ID: 192-25235-5

Date Collected: 10/09/25 11:00

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<5.0		5.0		ug/L			10/16/25 00:12	1
Vinyl chloride	<2.0		2.0		ug/L			10/16/25 00:12	1

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		80 - 120					10/16/25 00:12	1
4-Bromofluorobenzene (Surr)	99		80 - 120					10/16/25 17:23	10
4-Bromofluorobenzene (Surr)	99		80 - 120					10/16/25 17:53	100
4-Bromofluorobenzene (Surr)	100		80 - 120					10/16/25 18:23	1000
Dibromofluoromethane (Surr)	101		80 - 120					10/16/25 00:12	1
Dibromofluoromethane (Surr)	98		80 - 120					10/16/25 17:23	10
Dibromofluoromethane (Surr)	99		80 - 120					10/16/25 17:53	100
Dibromofluoromethane (Surr)	99		80 - 120					10/16/25 18:23	1000
Toluene-d8 (Surr)	98		80 - 120					10/16/25 00:12	1
Toluene-d8 (Surr)	99		80 - 120					10/16/25 17:23	10
Toluene-d8 (Surr)	100		80 - 120					10/16/25 17:53	100
Toluene-d8 (Surr)	100		80 - 120					10/16/25 18:23	1000

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	690		20		mg/L			10/16/25 21:48	100
Chloride	230		2.0		mg/L			10/15/25 07:09	10
Sulfate	54		2.0		mg/L			10/15/25 07:09	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.020		0.020		mg/L		10/27/25 12:22	10/28/25 14:58	5
Lead	<0.010		0.010		mg/L		10/27/25 12:22	10/28/25 04:12	5

Client Sample ID: Sump-11-20251009

Lab Sample ID: 192-25235-6

Date Collected: 10/09/25 12:30

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.8		0.20		ug/L			10/18/25 01:49	1
1,2-Dibromoethane	640	E	0.050		ug/L			10/18/25 01:49	1
1,1,2,2-Tetrachloroethane	25	E	0.076		ug/L			10/18/25 01:49	1
1,2,3-Trichloropropane	9.8	E	0.020		ug/L			10/18/25 01:49	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	17		5.0		ug/L			10/15/25 23:02	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 23:02	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 23:02	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 23:02	1
1,2,3-Trichloropropane	9.8		5.0		ug/L			10/15/25 23:02	1
1,2,4-Trimethylbenzene	13		5.0		ug/L			10/15/25 23:02	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 23:02	1
1,2-Dibromoethane	460		50		ug/L			10/15/25 23:54	10
1,2-Dichloroethane	4400		500		ug/L			10/16/25 00:20	100
1,2-Dichloropropane	5.0		5.0		ug/L			10/15/25 23:02	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-11-20251009

Lab Sample ID: 192-25235-6

Date Collected: 10/09/25 12:30

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 23:02	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/15/25 23:02	1
1-Bromo-2-chloroethane	460		50		ug/L			10/15/25 23:54	10
Benzene	32		5.0		ug/L			10/15/25 23:02	1
Bromochloromethane	1900		500		ug/L			10/16/25 00:20	100
Bromodichloromethane	180		50		ug/L			10/15/25 23:54	10
Bromoform	22000		5000		ug/L			10/15/25 23:28	1000
Carbon disulfide	870		100		ug/L			10/15/25 23:54	10
Carbon tetrachloride	2.2		2.0		ug/L			10/15/25 23:02	1
Chloroform	23		4.0		ug/L			10/15/25 23:02	1
cis-1,2-Dichloroethene	9.2		5.0		ug/L			10/15/25 23:02	1
Dibromochloromethane	950		500		ug/L			10/16/25 00:20	100
Dibromomethane	34000		5000		ug/L			10/15/25 23:28	1000
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 23:02	1
Methylene Chloride	1500		500		ug/L			10/16/25 00:20	100
Styrene	<5.0		5.0		ug/L			10/15/25 23:02	1
Tetrachloroethene	22		5.0		ug/L			10/15/25 23:02	1
Toluene	570		50		ug/L			10/15/25 23:54	10
Trichloroethene	34		5.0		ug/L			10/15/25 23:02	1
Vinyl chloride	15		2.0		ug/L			10/15/25 23:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	164	S1+	80 - 120		10/15/25 23:02	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/15/25 23:28	1000
4-Bromofluorobenzene (Surr)	104		80 - 120		10/15/25 23:54	10
4-Bromofluorobenzene (Surr)	99		80 - 120		10/16/25 00:20	100
Dibromofluoromethane (Surr)	105		80 - 120		10/15/25 23:02	1
Dibromofluoromethane (Surr)	101		80 - 120		10/15/25 23:28	1000
Dibromofluoromethane (Surr)	99		80 - 120		10/15/25 23:54	10
Dibromofluoromethane (Surr)	100		80 - 120		10/16/25 00:20	100
Toluene-d8 (Surr)	99		80 - 120		10/15/25 23:02	1
Toluene-d8 (Surr)	96		80 - 120		10/15/25 23:28	1000
Toluene-d8 (Surr)	99		80 - 120		10/15/25 23:54	10
Toluene-d8 (Surr)	97		80 - 120		10/16/25 00:20	100

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	850		20		mg/L			10/15/25 07:32	100
Chloride	710		200		mg/L			10/15/25 20:50	1000
Sulfate	1700		20		mg/L			10/15/25 07:32	100

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.020		0.020		mg/L		10/27/25 13:30	10/28/25 17:30	5
Lead	<0.010		0.010		mg/L		10/27/25 13:30	10/28/25 17:30	5

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-12-20251009

Lab Sample ID: 192-25235-7

Date Collected: 10/09/25 12:50

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	1.4		0.20		ug/L			10/18/25 00:10	1
1,2-Dibromoethane	95	E	0.050		ug/L			10/18/25 00:10	1
1,1,2,2-Tetrachloroethane	4.0		0.076		ug/L			10/18/25 00:10	1
1,2,3-Trichloropropane	0.51		0.020		ug/L			10/18/25 00:10	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/16/25 00:46	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 00:46	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 00:46	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/16/25 00:46	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 00:46	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 00:46	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/16/25 00:46	1
1,2-Dibromoethane	31	F1	5.0		ug/L			10/16/25 00:46	1
1,2-Dichloroethane	41	F1	5.0		ug/L			10/16/25 00:46	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 00:46	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 00:46	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/16/25 00:46	1
1-Bromo-2-chloroethane	14	F1	5.0		ug/L			10/16/25 00:46	1
Benzene	<5.0		5.0		ug/L			10/16/25 00:46	1
Bromochloromethane	17	F1	5.0		ug/L			10/16/25 00:46	1
Bromodichloromethane	7.4		5.0		ug/L			10/16/25 00:46	1
Bromoform	450		50		ug/L			10/16/25 19:53	10
Carbon disulfide	39		10		ug/L			10/16/25 00:46	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/16/25 00:46	1
Chloroform	<4.0		4.0		ug/L			10/16/25 00:46	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/16/25 00:46	1
Dibromochloromethane	50	F1	5.0		ug/L			10/16/25 00:46	1
Dibromomethane	100		50		ug/L			10/16/25 19:53	10
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 00:46	1
Methylene Chloride	8.8		5.0		ug/L			10/16/25 00:46	1
Styrene	<5.0		5.0		ug/L			10/16/25 00:46	1
Tetrachloroethene	<5.0		5.0		ug/L			10/16/25 00:46	1
Toluene	64	F1	5.0		ug/L			10/16/25 00:46	1
Trichloroethene	<5.0		5.0		ug/L			10/16/25 00:46	1
Vinyl chloride	2.1		2.0		ug/L			10/16/25 00:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	111		80 - 120		10/16/25 00:46	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/16/25 19:53	10
4-Bromofluorobenzene (Surr)	98		80 - 120		10/16/25 20:23	100
Dibromofluoromethane (Surr)	99		80 - 120		10/16/25 00:46	1
Dibromofluoromethane (Surr)	100		80 - 120		10/16/25 19:53	10
Dibromofluoromethane (Surr)	101		80 - 120		10/16/25 20:23	100
Toluene-d8 (Surr)	99		80 - 120		10/16/25 00:46	1
Toluene-d8 (Surr)	100		80 - 120		10/16/25 19:53	10
Toluene-d8 (Surr)	100		80 - 120		10/16/25 20:23	100

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-12-20251009

Lab Sample ID: 192-25235-7

Date Collected: 10/09/25 12:50

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	31		2.0		mg/L			10/15/25 07:54	10
Chloride	68		2.0		mg/L			10/15/25 07:54	10
Sulfate	340		2.0		mg/L			10/15/25 07:54	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 17:33	1
Lead	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:33	1

Client Sample ID: Sump-13-20251009

Lab Sample ID: 192-25235-8

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 16:38	1
1,2-Dibromoethane	0.93		0.050		ug/L			10/17/25 16:38	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 16:38	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 16:38	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/16/25 02:04	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 02:04	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 02:04	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 02:04	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/16/25 02:04	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/16/25 02:04	1
Benzene	<5.0		5.0		ug/L			10/16/25 02:04	1
Bromochloromethane	13		5.0		ug/L			10/16/25 02:04	1
Bromodichloromethane	56		5.0		ug/L			10/16/25 02:04	1
Bromoform	6700		500		ug/L			10/16/25 02:56	100
Carbon disulfide	<10		10		ug/L			10/16/25 02:04	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/16/25 02:04	1
Chloroform	36		4.0		ug/L			10/16/25 02:04	1
cis-1,2-Dichloroethene	6.5		5.0		ug/L			10/16/25 02:04	1
Dibromochloromethane	510		50		ug/L			10/16/25 02:30	10
Dibromomethane	310		50		ug/L			10/16/25 02:30	10
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 02:04	1
Methylene Chloride	<5.0		5.0		ug/L			10/16/25 02:04	1
Styrene	<5.0		5.0		ug/L			10/16/25 02:04	1
Tetrachloroethene	<5.0		5.0		ug/L			10/16/25 02:04	1
Toluene	<5.0		5.0		ug/L			10/16/25 02:04	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-13-20251009

Lab Sample ID: 192-25235-8

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<5.0		5.0		ug/L			10/16/25 02:04	1
Vinyl chloride	<2.0		2.0		ug/L			10/16/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120					10/16/25 02:04	1
4-Bromofluorobenzene (Surr)	101		80 - 120					10/16/25 02:30	10
4-Bromofluorobenzene (Surr)	98		80 - 120					10/16/25 02:56	100
4-Bromofluorobenzene (Surr)	100		80 - 120					10/16/25 03:22	1000
Dibromofluoromethane (Surr)	96		80 - 120					10/16/25 02:04	1
Dibromofluoromethane (Surr)	100		80 - 120					10/16/25 02:30	10
Dibromofluoromethane (Surr)	100		80 - 120					10/16/25 02:56	100
Dibromofluoromethane (Surr)	99		80 - 120					10/16/25 03:22	1000
Toluene-d8 (Surr)	96		80 - 120					10/16/25 02:04	1
Toluene-d8 (Surr)	96		80 - 120					10/16/25 02:30	10
Toluene-d8 (Surr)	96		80 - 120					10/16/25 02:56	100
Toluene-d8 (Surr)	98		80 - 120					10/16/25 03:22	1000

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	340		2.0		mg/L			10/15/25 08:17	10
Chloride	93		2.0		mg/L			10/15/25 08:17	10
Sulfate	27		2.0		mg/L			10/15/25 08:17	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 17:36	1
Lead	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:36	1

Client Sample ID: Sump-P-20251009

Lab Sample ID: 192-25235-9

Date Collected: 10/09/25 12:05

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 17:03	1
1,2-Dibromoethane	<0.050		0.050		ug/L			10/17/25 17:03	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 17:03	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 17:03	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,1-Dichloroethene	7.5		5.0		ug/L			10/16/25 03:48	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 03:48	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/16/25 03:48	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 03:48	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-P-20251009

Lab Sample ID: 192-25235-9

Date Collected: 10/09/25 12:05

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 03:48	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/16/25 03:48	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/16/25 03:48	1
Benzene	190		50		ug/L			10/16/25 04:14	10
Bromochloromethane	<5.0		5.0		ug/L			10/16/25 03:48	1
Bromodichloromethane	<5.0		5.0		ug/L			10/16/25 03:48	1
Bromoform	48		5.0		ug/L			10/16/25 03:48	1
Carbon disulfide	21		10		ug/L			10/16/25 03:48	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/16/25 03:48	1
Chloroform	<4.0		4.0		ug/L			10/16/25 03:48	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/16/25 03:48	1
Dibromochloromethane	<5.0		5.0		ug/L			10/16/25 03:48	1
Dibromomethane	<5.0		5.0		ug/L			10/16/25 03:48	1
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 03:48	1
Methylene Chloride	<5.0		5.0		ug/L			10/16/25 03:48	1
Styrene	<5.0		5.0		ug/L			10/16/25 03:48	1
Tetrachloroethene	<5.0		5.0		ug/L			10/16/25 03:48	1
Toluene	15		5.0		ug/L			10/16/25 03:48	1
Trichloroethene	<5.0		5.0		ug/L			10/16/25 03:48	1
Vinyl chloride	<2.0		2.0		ug/L			10/16/25 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		80 - 120		10/16/25 03:48	1
4-Bromofluorobenzene (Surr)	102		80 - 120		10/16/25 04:14	10
4-Bromofluorobenzene (Surr)	97		80 - 120		10/16/25 04:41	100
Dibromofluoromethane (Surr)	100		80 - 120		10/16/25 03:48	1
Dibromofluoromethane (Surr)	98		80 - 120		10/16/25 04:14	10
Dibromofluoromethane (Surr)	98		80 - 120		10/16/25 04:41	100
Toluene-d8 (Surr)	99		80 - 120		10/16/25 03:48	1
Toluene-d8 (Surr)	95		80 - 120		10/16/25 04:14	10
Toluene-d8 (Surr)	95		80 - 120		10/16/25 04:41	100

Method: SW846 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	1800		20		mg/L			10/15/25 21:12	100
Chloride	940		20		mg/L			10/15/25 21:12	100
Sulfate	160		2.0		mg/L			10/15/25 08:40	10

Method: SW846 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Antimony	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Beryllium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Barium	0.43		0.0040		mg/L		10/27/25 13:30	10/28/25 17:39	1
Thallium	0.0025		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Nickel	0.010		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Vanadium	0.012		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Silver	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Arsenic	0.0066		0.0040		mg/L		10/27/25 13:30	10/28/25 17:39	1
Copper	0.0058		0.0040		mg/L		10/27/25 13:30	10/28/25 17:39	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-P-20251009

Lab Sample ID: 192-25235-9

Date Collected: 10/09/25 12:05

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.0029		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Zinc	0.036		0.0040		mg/L		10/27/25 13:30	10/28/25 17:39	1
Selenium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1
Chromium	0.0056		0.0040		mg/L		10/27/25 13:30	10/28/25 17:39	1
Cobalt	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 17:39	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (SM 2540 C-2020)	6000		83		mg/L			10/14/25 12:46	1
Total Organic Carbon (SM 5310 C-2014)	7.3		1.0		mg/L			10/10/25 21:25	1
TOX Dup (SW846 9020B)	2300		300		ug/L			10/21/25 11:38	10

Client Sample ID: FB-20251009

Lab Sample ID: 192-25235-10

Date Collected: 10/09/25 11:10

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 15:24	1
1,2-Dibromoethane	<0.050		0.050		ug/L			10/17/25 15:24	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 15:24	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 15:24	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0		ug/L			10/15/25 22:13	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/15/25 22:13	1
Bromochloromethane	<5.0		5.0		ug/L			10/15/25 22:13	1
Bromodichloromethane	<5.0		5.0		ug/L			10/15/25 22:13	1
Bromoform	<5.0		5.0		ug/L			10/15/25 22:13	1
Carbon disulfide	<10		10		ug/L			10/15/25 22:13	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/15/25 22:13	1
Chloroform	<4.0		4.0		ug/L			10/15/25 22:13	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 22:13	1
Dibromochloromethane	<5.0		5.0		ug/L			10/15/25 22:13	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/15/25 22:13	1
Dibromomethane	<5.0		5.0		ug/L			10/15/25 22:13	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 22:13	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/15/25 22:13	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 22:13	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/15/25 22:13	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/15/25 22:13	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/15/25 22:13	1
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 22:13	1
Methylene Chloride	<5.0		5.0		ug/L			10/15/25 22:13	1
Styrene	<5.0		5.0		ug/L			10/15/25 22:13	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/15/25 22:13	1
Tetrachloroethene	<5.0		5.0		ug/L			10/15/25 22:13	1
Toluene	<5.0		5.0		ug/L			10/15/25 22:13	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: FB-20251009

Lab Sample ID: 192-25235-10

Date Collected: 10/09/25 11:10

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 22:13	1
Trichloroethene	<5.0		5.0		ug/L			10/15/25 22:13	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/15/25 22:13	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 22:13	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 22:13	1
Vinyl chloride	<2.0		2.0		ug/L			10/15/25 22:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	97		80 - 120		10/15/25 22:13	1
Toluene-d8 (Surr)	99		80 - 120		10/15/25 22:13	1
4-Bromofluorobenzene (Surr)	97		80 - 120		10/15/25 22:13	1

Client Sample ID: TB-20251009

Lab Sample ID: 192-25235-11

Date Collected: 10/09/25 09:30

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D SIM - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 15:48	1
1,2-Dibromoethane	<0.050		0.050		ug/L			10/17/25 15:48	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 15:48	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 15:48	1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<5.0		5.0		ug/L			10/15/25 22:42	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/15/25 22:42	1
Bromochloromethane	<5.0		5.0		ug/L			10/15/25 22:42	1
Bromodichloromethane	<5.0		5.0		ug/L			10/15/25 22:42	1
Bromoform	<5.0		5.0		ug/L			10/15/25 22:42	1
Carbon disulfide	<10		10		ug/L			10/15/25 22:42	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/15/25 22:42	1
Chloroform	<4.0		4.0		ug/L			10/15/25 22:42	1
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 22:42	1
Dibromochloromethane	<5.0		5.0		ug/L			10/15/25 22:42	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/15/25 22:42	1
Dibromomethane	<5.0		5.0		ug/L			10/15/25 22:42	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 22:42	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/15/25 22:42	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 22:42	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/15/25 22:42	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/15/25 22:42	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/15/25 22:42	1
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 22:42	1
Methylene Chloride	<5.0		5.0		ug/L			10/15/25 22:42	1
Styrene	<5.0		5.0		ug/L			10/15/25 22:42	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/15/25 22:42	1
Tetrachloroethene	<5.0		5.0		ug/L			10/15/25 22:42	1
Toluene	<5.0		5.0		ug/L			10/15/25 22:42	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 22:42	1

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Client Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: TB-20251009

Lab Sample ID: 192-25235-11

Date Collected: 10/09/25 09:30

Matrix: Water

Date Received: 10/09/25 14:20

Method: SW846 8260D - Volatile Organic Compounds by GC/MS (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<5.0		5.0		ug/L			10/15/25 22:42	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/15/25 22:42	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 22:42	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 22:42	1
Vinyl chloride	<2.0		2.0		ug/L			10/15/25 22:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120					10/15/25 22:42	1
Toluene-d8 (Surr)	101		80 - 120					10/15/25 22:42	1
4-Bromofluorobenzene (Surr)	98		80 - 120					10/15/25 22:42	1

Surrogate Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB	DBFM	TOL
		(80-120)	(80-120)	(80-120)
192-25235-1	Sump-1-20251009	168 S1+	98	101
192-25235-1	Sump-1-20251009	109	102	99
192-25235-1	Sump-1-20251009	100	100	101
192-25235-1	Sump-1-20251009	99	99	100
192-25235-2	Sump-1-20251009 Dup	184 S1+	96	100
192-25235-2	Sump-1-20251009 Dup	109	101	100
192-25235-2	Sump-1-20251009 Dup	99	99	101
192-25235-2	Sump-1-20251009 Dup	101	99	98
192-25235-3	Sump-2-20251009	106	102	100
192-25235-3	Sump-2-20251009	99	97	98
192-25235-4	Sump-3-20251009	114	102	100
192-25235-4	Sump-3-20251009	98	98	96
192-25235-4	Sump-3-20251009	97	97	96
192-25235-5	Sump-4-20251009	103	101	98
192-25235-5	Sump-4-20251009	99	98	99
192-25235-5	Sump-4-20251009	99	99	100
192-25235-5	Sump-4-20251009	100	99	100
192-25235-5 MS	Sump-4-20251009	106	100	99
192-25235-5 MSD	Sump-4-20251009	105	100	100
192-25235-6	Sump-11-20251009	164 S1+	105	99
192-25235-6	Sump-11-20251009	97	101	96
192-25235-6	Sump-11-20251009	104	99	99
192-25235-6	Sump-11-20251009	99	100	97
192-25235-7	Sump-12-20251009	111	99	99
192-25235-7	Sump-12-20251009	99	100	100
192-25235-7	Sump-12-20251009	98	101	100
192-25235-7 MS	Sump-12-20251009	118	99	104
192-25235-7 MSD	Sump-12-20251009	114	98	101
192-25235-8	Sump-13-20251009	102	96	96
192-25235-8	Sump-13-20251009	101	100	96
192-25235-8	Sump-13-20251009	98	100	96
192-25235-8	Sump-13-20251009	100	99	98
192-25235-9	Sump-P-20251009	100	100	99
192-25235-9	Sump-P-20251009	102	98	95
192-25235-9	Sump-P-20251009	97	98	95
192-25235-10	FB-20251009	97	97	99
192-25235-11	TB-20251009	98	99	101
192-25236-E-1 MSD	Matrix Spike Duplicate	103	99	100
192-25236-F-1 MS	Matrix Spike	103	100	99
LCS 192-40598/1012	Lab Control Sample	100	99	100
LCS 192-40603/1012	Lab Control Sample	102	98	100
LCS 192-40636/1005	Lab Control Sample	101	101	101
MB 192-40598/14	Method Blank	95	101	99
MB 192-40603/14	Method Blank	98	99	96
MB 192-40636/7	Method Blank	99	98	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 192-40598/14

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 20:43	1
Benzene	<5.0		5.0		ug/L			10/15/25 20:43	1
Bromochloromethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/15/25 20:43	1
Bromodichloromethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/15/25 20:43	1
Bromoform	<5.0		5.0		ug/L			10/15/25 20:43	1
Carbon disulfide	<10		10		ug/L			10/15/25 20:43	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/15/25 20:43	1
Chloroform	<4.0		4.0		ug/L			10/15/25 20:43	1
1,1,1,2-Tetrachloroethane	<5.0		5.0		ug/L			10/15/25 20:43	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/15/25 20:43	1
Dibromochloromethane	<5.0		5.0		ug/L			10/15/25 20:43	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 20:43	1
Dibromomethane	<5.0		5.0		ug/L			10/15/25 20:43	1
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 20:43	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/15/25 20:43	1
Methylene Chloride	<5.0		5.0		ug/L			10/15/25 20:43	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 20:43	1
Styrene	<5.0		5.0		ug/L			10/15/25 20:43	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 20:43	1
Tetrachloroethene	<5.0		5.0		ug/L			10/15/25 20:43	1
Toluene	<5.0		5.0		ug/L			10/15/25 20:43	1
Trichloroethene	<5.0		5.0		ug/L			10/15/25 20:43	1
Vinyl chloride	<2.0		2.0		ug/L			10/15/25 20:43	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	101		80 - 120		10/15/25 20:43	1
Toluene-d8 (Surr)	99		80 - 120		10/15/25 20:43	1
4-Bromofluorobenzene (Surr)	95		80 - 120		10/15/25 20:43	1

Lab Sample ID: LCS 192-40598/1012

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	56.8		ug/L		114	70 - 130
1,2-Dibromoethane	50.2	54.0		ug/L		107	70 - 130
1,1-Dichloroethane	49.9	50.0		ug/L		100	70 - 130
1-Bromo-2-chloroethane	50.1	54.2		ug/L		108	70 - 130
1,2-Dichloroethane	50.0	49.5		ug/L		99	70 - 130
1,1-Dichloroethene	49.8	46.9		ug/L		94	70 - 130
Benzene	50.0	48.9		ug/L		98	70 - 130

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 192-40598/1012

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromochloromethane	49.6	46.4		ug/L		93	70 - 130
1,2-Dichloropropane	49.8	51.5		ug/L		103	70 - 130
Bromodichloromethane	49.8	50.8		ug/L		102	70 - 130
1,3-Dichloropropane	50.2	49.8		ug/L		99	70 - 130
Bromoform	50.0	52.1		ug/L		104	70 - 130
Carbon disulfide	100	96.8		ug/L		96	70 - 130
Carbon tetrachloride	50.0	50.1		ug/L		100	70 - 130
Chloroform	49.9	47.4		ug/L		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	46.7		ug/L		93	70 - 130
cis-1,2-Dichloroethene	49.5	51.7		ug/L		104	70 - 130
Dibromochloromethane	49.9	51.4		ug/L		103	70 - 130
1,1,2-Trichloroethane	49.9	51.7		ug/L		104	70 - 130
Dibromomethane	49.9	51.1		ug/L		103	70 - 130
Isopropylbenzene	49.9	50.6		ug/L		101	70 - 130
1,2,3-Trichloropropane	50.1	50.0		ug/L		100	70 - 130
Methylene Chloride	50.1	48.2		ug/L		96	70 - 130
1,2,4-Trimethylbenzene	50.2	50.7		ug/L		101	70 - 130
Styrene	50.1	49.6		ug/L		99	70 - 130
1,3,5-Trimethylbenzene	49.9	51.8		ug/L		104	70 - 130
Tetrachloroethene	50.0	50.5		ug/L		101	70 - 130
Toluene	50.1	51.3		ug/L		103	70 - 130
Trichloroethene	50.4	54.6		ug/L		108	70 - 130
Vinyl chloride	50.1	43.8		ug/L		87	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: 192-25235-5 MS

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Sump-4-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	<5.0		50.0	58.2		ug/L		117	70 - 130
1,2-Dibromoethane	<5.0		50.2	53.9		ug/L		103	70 - 130
1,1-Dichloroethane	<5.0		49.9	50.3		ug/L		95	70 - 130
1-Bromo-2-chloroethane	<5.0		50.1	54.5		ug/L		103	70 - 130
1,2-Dichloroethane	<5.0		50.0	51.8		ug/L		94	70 - 130
1,1-Dichloroethene	<5.0		49.8	45.9		ug/L		92	70 - 130
Benzene	<5.0		50.0	48.0		ug/L		96	70 - 130
Bromochloromethane	34		49.6	79.6		ug/L		92	70 - 130
1,2-Dichloropropane	<5.0		49.8	49.0		ug/L		98	70 - 130
Bromodichloromethane	150	E	49.8	208	E	ug/L		109	70 - 130
1,3-Dichloropropane	<5.0		50.2	45.7		ug/L		91	70 - 130
Bromoform	4600	ES E	50.0	4540	E ES 4	ug/L		-45	70 - 130
Carbon disulfide	<10		100	103		ug/L		95	70 - 130
Carbon tetrachloride	<2.0		50.0	54.0		ug/L		108	70 - 130

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 192-25235-5 MS

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Sump-4-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloroform	89		49.9	134	E	ug/L		91	70 - 130
1,1,2,2-Tetrachloroethane	<5.0		50.0	49.1		ug/L		98	70 - 130
cis-1,2-Dichloroethene	<5.0		49.5	50.5		ug/L		99	70 - 130
Dibromochloromethane	1300	E	49.9	1380	E 4	ug/L		136	70 - 130
1,1,2-Trichloroethane	<5.0		49.9	48.0		ug/L		96	70 - 130
Dibromomethane	750	E	49.9	801	E 4	ug/L		105	70 - 130
Isopropylbenzene	<5.0		49.9	49.6		ug/L		99	70 - 130
1,2,3-Trichloropropane	<5.0		50.1	45.6		ug/L		91	70 - 130
Methylene Chloride	6.4		50.1	51.2		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	<5.0		50.2	46.8		ug/L		93	70 - 130
Styrene	<5.0		50.1	47.7		ug/L		95	70 - 130
1,3,5-Trimethylbenzene	<5.0		49.9	47.9		ug/L		96	70 - 130
Tetrachloroethene	<5.0		50.0	49.5		ug/L		99	70 - 130
Toluene	<5.0		50.1	53.6		ug/L		99	70 - 130
Trichloroethene	<5.0		50.4	48.6		ug/L		97	70 - 130
Vinyl chloride	<2.0		50.1	43.5		ug/L		87	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	106		80 - 120

Lab Sample ID: 192-25235-5 MSD

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Sump-4-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	<5.0		50.0	60.7		ug/L		121	70 - 130	4	20
1,2-Dibromoethane	<5.0		50.2	53.6		ug/L		103	70 - 130	1	20
1,1-Dichloroethane	<5.0		49.9	50.2		ug/L		95	70 - 130	0	20
1-Bromo-2-chloroethane	<5.0		50.1	53.5		ug/L		101	70 - 130	2	20
1,2-Dichloroethane	<5.0		50.0	50.8		ug/L		92	70 - 130	2	20
1,1-Dichloroethene	<5.0		49.8	45.2		ug/L		91	70 - 130	1	20
Benzene	<5.0		50.0	47.8		ug/L		96	70 - 130	1	20
Bromochloromethane	34		49.6	75.0		ug/L		83	70 - 130	6	20
1,2-Dichloropropane	<5.0		49.8	48.0		ug/L		96	70 - 130	2	20
Bromodichloromethane	150	E	49.8	206	E	ug/L		103	70 - 130	1	20
1,3-Dichloropropane	<5.0		50.2	45.6		ug/L		91	70 - 130	0	20
Bromoform	4600	ES E	50.0	4470	E ES 4	ug/L		-194	70 - 130	2	20
Carbon disulfide	<10		100	101		ug/L		94	70 - 130	1	20
Carbon tetrachloride	<2.0		50.0	53.5		ug/L		107	70 - 130	1	20
Chloroform	89		49.9	131	E	ug/L		86	70 - 130	2	20
1,1,2,2-Tetrachloroethane	<5.0		50.0	48.9		ug/L		98	70 - 130	0	20
cis-1,2-Dichloroethene	<5.0		49.5	49.6		ug/L		97	70 - 130	2	20
Dibromochloromethane	1300	E	49.9	1350	E 4	ug/L		78	70 - 130	2	20
1,1,2-Trichloroethane	<5.0		49.9	48.4		ug/L		97	70 - 130	1	20
Dibromomethane	750	E	49.9	780	E 4	ug/L		62	70 - 130	3	20
Isopropylbenzene	<5.0		49.9	49.7		ug/L		100	70 - 130	0	20

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 192-25235-5 MSD

Matrix: Water

Analysis Batch: 40598

Client Sample ID: Sump-4-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,3-Trichloropropane	<5.0		50.1	45.4		ug/L		91	70 - 130	1	20
Methylene Chloride	6.4		50.1	50.5		ug/L		88	70 - 130	1	20
1,2,4-Trimethylbenzene	<5.0		50.2	46.0		ug/L		92	70 - 130	2	20
Styrene	<5.0		50.1	45.8		ug/L		91	70 - 130	4	20
1,3,5-Trimethylbenzene	<5.0		49.9	47.2		ug/L		95	70 - 130	1	20
Tetrachloroethene	<5.0		50.0	49.3		ug/L		99	70 - 130	0	20
Toluene	<5.0		50.1	52.9		ug/L		98	70 - 130	1	20
Trichloroethene	<5.0		50.4	48.9		ug/L		97	70 - 130	1	20
Vinyl chloride	<2.0		50.1	43.1		ug/L		86	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	105		80 - 120

Lab Sample ID: MB 192-40603/14

Matrix: Water

Analysis Batch: 40603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/15/25 20:00	1
Benzene	<5.0		5.0		ug/L			10/15/25 20:00	1
Bromochloromethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/15/25 20:00	1
Bromodichloromethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/15/25 20:00	1
Bromoform	<5.0		5.0		ug/L			10/15/25 20:00	1
Carbon disulfide	<10		10		ug/L			10/15/25 20:00	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/15/25 20:00	1
Chloroform	<4.0		4.0		ug/L			10/15/25 20:00	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/15/25 20:00	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/15/25 20:00	1
Dibromochloromethane	<5.0		5.0		ug/L			10/15/25 20:00	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/15/25 20:00	1
Dibromomethane	<5.0		5.0		ug/L			10/15/25 20:00	1
Isopropylbenzene	<5.0		5.0		ug/L			10/15/25 20:00	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/15/25 20:00	1
Methylene Chloride	<5.0		5.0		ug/L			10/15/25 20:00	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 20:00	1
Styrene	<5.0		5.0		ug/L			10/15/25 20:00	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/15/25 20:00	1
Tetrachloroethene	<5.0		5.0		ug/L			10/15/25 20:00	1
Toluene	<5.0		5.0		ug/L			10/15/25 20:00	1

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 192-40603/14

Matrix: Water

Analysis Batch: 40603

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<5.0		5.0		ug/L			10/15/25 20:00	1
Vinyl chloride	<2.0		2.0		ug/L			10/15/25 20:00	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		80 - 120		10/15/25 20:00	1
Toluene-d8 (Surr)	96		80 - 120		10/15/25 20:00	1
4-Bromofluorobenzene (Surr)	98		80 - 120		10/15/25 20:00	1

Lab Sample ID: LCS 192-40603/1012

Matrix: Water

Analysis Batch: 40603

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	56.8		ug/L		114	70 - 130
1,2-Dibromoethane	50.2	56.3		ug/L		112	70 - 130
1,1-Dichloroethane	49.9	51.2		ug/L		103	70 - 130
1-Bromo-2-chloroethane	50.1	55.7		ug/L		111	70 - 130
1,2-Dichloroethane	50.0	49.8		ug/L		100	70 - 130
1,1-Dichloroethene	49.8	46.1		ug/L		92	70 - 130
Benzene	50.0	50.8		ug/L		102	70 - 130
Bromochloromethane	49.6	49.2		ug/L		99	70 - 130
1,2-Dichloropropane	49.8	54.4		ug/L		109	70 - 130
Bromodichloromethane	49.8	50.4		ug/L		101	70 - 130
1,3-Dichloropropane	50.2	52.8		ug/L		105	70 - 130
Bromoform	50.0	50.2		ug/L		100	70 - 130
Carbon disulfide	100	92.3		ug/L		92	70 - 130
Carbon tetrachloride	50.0	55.1		ug/L		110	70 - 130
Chloroform	49.9	47.1		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	70 - 130
cis-1,2-Dichloroethene	49.5	50.8		ug/L		103	70 - 130
Dibromochloromethane	49.9	52.3		ug/L		105	70 - 130
1,1,2-Trichloroethane	49.9	54.1		ug/L		109	70 - 130
Dibromomethane	49.9	49.6		ug/L		99	70 - 130
Isopropylbenzene	49.9	50.7		ug/L		102	70 - 130
1,2,3-Trichloropropane	50.1	51.1		ug/L		102	70 - 130
Methylene Chloride	50.1	48.7		ug/L		97	70 - 130
1,2,4-Trimethylbenzene	50.2	51.1		ug/L		102	70 - 130
Styrene	50.1	53.0		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	49.9	52.5		ug/L		105	70 - 130
Tetrachloroethene	50.0	50.5		ug/L		101	70 - 130
Toluene	50.1	50.0		ug/L		100	70 - 130
Trichloroethene	50.4	56.4		ug/L		112	70 - 130
Vinyl chloride	50.1	41.5		ug/L		83	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	102		80 - 120

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: 192-25235-7 MS

Matrix: Water

Analysis Batch: 40603

Client Sample ID: Sump-12-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	<5.0		50.0	57.6		ug/L		115	70 - 130
1,2-Dibromoethane	31	F1	50.2	157	E F1	ug/L		251	70 - 130
1,1-Dichloroethane	<5.0		49.9	53.3		ug/L		107	70 - 130
1-Bromo-2-chloroethane	14	F1	50.1	93.7	F1	ug/L		160	70 - 130
1,2-Dichloroethane	41	F1	50.0	153	E F1	ug/L		224	70 - 130
1,1-Dichloroethene	<5.0		49.8	47.2		ug/L		95	70 - 130
Benzene	<5.0		50.0	54.3		ug/L		109	70 - 130
Bromochloromethane	17	F1	49.6	93.8	F1	ug/L		154	70 - 130
1,2-Dichloropropane	<5.0		49.8	54.6		ug/L		110	70 - 130
Bromodichloromethane	7.4		49.8	62.8		ug/L		111	70 - 130
1,3-Dichloropropane	<5.0		50.2	56.5		ug/L		112	70 - 130
Bromoform	550	E	50.0	1550	E 4	ug/L		1989	70 - 130
Carbon disulfide	39		100	158		ug/L		119	70 - 130
Carbon tetrachloride	<2.0		50.0	57.7		ug/L		115	70 - 130
Chloroform	<4.0		49.9	49.4		ug/L		99	70 - 130
1,1,1,2-Tetrachloroethane	<5.0		50.0	56.1		ug/L		109	70 - 130
cis-1,2-Dichloroethene	<5.0		49.5	52.7		ug/L		107	70 - 130
Dibromochloromethane	50	F1	49.9	170	E F1	ug/L		241	70 - 130
1,1,2-Trichloroethane	<5.0		49.9	54.5		ug/L		109	70 - 130
Dibromomethane	150	E F1	49.9	481	E F1	ug/L		655	70 - 130
Isopropylbenzene	<5.0		49.9	53.3		ug/L		107	70 - 130
1,2,3-Trichloropropane	<5.0		50.1	51.9		ug/L		104	70 - 130
Methylene Chloride	8.8		50.1	72.8		ug/L		128	70 - 130
1,2,4-Trimethylbenzene	<5.0		50.2	53.5		ug/L		107	70 - 130
Styrene	<5.0		50.1	55.0		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	<5.0		49.9	55.3		ug/L		111	70 - 130
Tetrachloroethene	<5.0		50.0	56.5		ug/L		106	70 - 130
Toluene	64	F1	50.1	149	E F1	ug/L		170	70 - 130
Trichloroethene	<5.0		50.4	59.9		ug/L		112	70 - 130
Vinyl chloride	2.1		50.1	45.4		ug/L		86	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	104		80 - 120
4-Bromofluorobenzene (Surr)	118		80 - 120

Lab Sample ID: 192-25235-7 MSD

Matrix: Water

Analysis Batch: 40603

Client Sample ID: Sump-12-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	<5.0		50.0	50.7		ug/L		101	70 - 130	13	20
1,2-Dibromoethane	31	F1	50.2	77.8	F2	ug/L		94	70 - 130	67	20
1,1-Dichloroethane	<5.0		49.9	50.2		ug/L		101	70 - 130	6	20
1-Bromo-2-chloroethane	14	F1	50.1	64.0	F2	ug/L		101	70 - 130	38	20
1,2-Dichloroethane	41	F1	50.0	75.7	F1 F2	ug/L		69	70 - 130	68	20
1,1-Dichloroethene	<5.0		49.8	43.8		ug/L		88	70 - 130	7	20
Benzene	<5.0		50.0	50.7		ug/L		101	70 - 130	7	20

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 192-25235-7 MSD

Matrix: Water

Analysis Batch: 40603

Client Sample ID: Sump-12-20251009

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromochloromethane	17	F1	49.6	58.8	F2	ug/L		83	70 - 130	46	20
1,2-Dichloropropane	<5.0		49.8	53.3		ug/L		107	70 - 130	3	20
Bromodichloromethane	7.4		49.8	53.7		ug/L		93	70 - 130	15	20
1,3-Dichloropropane	<5.0		50.2	51.0		ug/L		102	70 - 130	10	20
Bromoform	550	E	50.0	548	E 4 F2	ug/L		-13	70 - 130	95	20
Carbon disulfide	39		100	119	F2	ug/L		80	70 - 130	28	20
Carbon tetrachloride	<2.0		50.0	55.2		ug/L		110	70 - 130	4	20
Chloroform	<4.0		49.9	46.3		ug/L		93	70 - 130	6	20
1,1,2,2-Tetrachloroethane	<5.0		50.0	47.6		ug/L		92	70 - 130	16	20
cis-1,2-Dichloroethene	<5.0		49.5	49.8		ug/L		101	70 - 130	6	20
Dibromochloromethane	50	F1	49.9	94.3	F2	ug/L		88	70 - 130	58	20
1,1,2-Trichloroethane	<5.0		49.9	51.7		ug/L		104	70 - 130	5	20
Dibromomethane	150	E F1	49.9	159	E F1 F2	ug/L		10	70 - 130	101	20
Isopropylbenzene	<5.0		49.9	50.0		ug/L		100	70 - 130	6	20
1,2,3-Trichloropropane	<5.0		50.1	45.6		ug/L		91	70 - 130	13	20
Methylene Chloride	8.8		50.1	54.6	F2	ug/L		91	70 - 130	29	20
1,2,4-Trimethylbenzene	<5.0		50.2	47.7		ug/L		95	70 - 130	11	20
Styrene	<5.0		50.1	51.4		ug/L		103	70 - 130	7	20
1,3,5-Trimethylbenzene	<5.0		49.9	49.5		ug/L		99	70 - 130	11	20
Tetrachloroethene	<5.0		50.0	53.1		ug/L		100	70 - 130	6	20
Toluene	64	F1	50.1	108	E F2	ug/L		89	70 - 130	32	20
Trichloroethene	<5.0		50.4	56.2		ug/L		105	70 - 130	6	20
Vinyl chloride	2.1		50.1	41.8		ug/L		79	70 - 130	8	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	98		80 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	114		80 - 120

Lab Sample ID: MB 192-40636/7

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,2-Dibromoethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,1-Dichloroethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1-Bromo-2-chloroethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,2-Dichloroethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,1-Dichloroethene	<5.0		5.0		ug/L			10/16/25 13:56	1
Benzene	<5.0		5.0		ug/L			10/16/25 13:56	1
Bromochloromethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,2-Dichloropropane	<5.0		5.0		ug/L			10/16/25 13:56	1
Bromodichloromethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,3-Dichloropropane	<5.0		5.0		ug/L			10/16/25 13:56	1
Bromoform	<5.0		5.0		ug/L			10/16/25 13:56	1
Carbon disulfide	<10		10		ug/L			10/16/25 13:56	1
Carbon tetrachloride	<2.0		2.0		ug/L			10/16/25 13:56	1

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 192-40636/7

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroform	<4.0		4.0		ug/L			10/16/25 13:56	1
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			10/16/25 13:56	1
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			10/16/25 13:56	1
Dibromochloromethane	<5.0		5.0		ug/L			10/16/25 13:56	1
1,1,2-Trichloroethane	<5.0		5.0		ug/L			10/16/25 13:56	1
Dibromomethane	<5.0		5.0		ug/L			10/16/25 13:56	1
Isopropylbenzene	<5.0		5.0		ug/L			10/16/25 13:56	1
1,2,3-Trichloropropane	<5.0		5.0		ug/L			10/16/25 13:56	1
Methylene Chloride	<5.0		5.0		ug/L			10/16/25 13:56	1
1,2,4-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 13:56	1
Styrene	<5.0		5.0		ug/L			10/16/25 13:56	1
1,3,5-Trimethylbenzene	<5.0		5.0		ug/L			10/16/25 13:56	1
Tetrachloroethene	<5.0		5.0		ug/L			10/16/25 13:56	1
Toluene	<5.0		5.0		ug/L			10/16/25 13:56	1
Trichloroethene	<5.0		5.0		ug/L			10/16/25 13:56	1
Vinyl chloride	<2.0		2.0		ug/L			10/16/25 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		80 - 120		10/16/25 13:56	1
Toluene-d8 (Surr)	100		80 - 120		10/16/25 13:56	1
4-Bromofluorobenzene (Surr)	99		80 - 120		10/16/25 13:56	1

Lab Sample ID: LCS 192-40636/1005

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	50.0	63.9		ug/L		128	70 - 130
1,2-Dibromoethane	50.2	55.3		ug/L		110	70 - 130
1,1-Dichloroethane	49.9	49.7		ug/L		100	70 - 130
1-Bromo-2-chloroethane	50.2	52.1		ug/L		104	70 - 130
1,2-Dichloroethane	50.0	50.2		ug/L		101	70 - 130
1,1-Dichloroethene	49.8	46.6		ug/L		94	70 - 130
Benzene	50.0	48.8		ug/L		98	70 - 130
Bromochloromethane	49.6	47.6		ug/L		96	70 - 130
1,2-Dichloropropane	49.8	51.4		ug/L		103	70 - 130
Bromodichloromethane	49.8	51.7		ug/L		104	70 - 130
1,3-Dichloropropane	50.2	49.6		ug/L		99	70 - 130
Bromoform	50.0	56.0		ug/L		112	70 - 130
Carbon disulfide	100	97.7		ug/L		97	70 - 130
Carbon tetrachloride	50.0	52.9		ug/L		106	70 - 130
Chloroform	49.9	46.9		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	70 - 130
cis-1,2-Dichloroethene	49.5	50.3		ug/L		102	70 - 130
Dibromochloromethane	49.9	53.6		ug/L		108	70 - 130
1,1,2-Trichloroethane	49.9	51.9		ug/L		104	70 - 130
Dibromomethane	49.9	51.0		ug/L		102	70 - 130
Isopropylbenzene	49.9	50.4		ug/L		101	70 - 130

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 192-40636/1005

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3-Trichloropropane	50.1	50.5		ug/L		101	70 - 130
Methylene Chloride	50.1	47.0		ug/L		94	70 - 130
1,2,4-Trimethylbenzene	50.2	51.3		ug/L		102	70 - 130
Styrene	50.1	48.4		ug/L		97	70 - 130
1,3,5-Trimethylbenzene	49.9	52.6		ug/L		105	70 - 130
Tetrachloroethene	50.0	50.7		ug/L		101	70 - 130
Toluene	50.1	50.9		ug/L		102	70 - 130
Trichloroethene	50.4	50.2		ug/L		100	70 - 130
Vinyl chloride	50.1	45.5		ug/L		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Dibromofluoromethane (Surr)	101		80 - 120
Toluene-d8 (Surr)	101		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120

Lab Sample ID: 192-25236-E-1 MSD

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2-Dibromo-3-Chloropropane	<5.0		50.0	55.5		ug/L		111	70 - 130	10	20
1,2-Dibromoethane	<5.0		50.2	49.7		ug/L		99	70 - 130	6	20
1,1-Dichloroethane	<5.0		49.9	48.0		ug/L		96	70 - 130	4	20
1-Bromo-2-chloroethane	<5.0		50.2	48.8		ug/L		97	70 - 130	6	20
1,2-Dichloroethane	<5.0		50.0	46.9		ug/L		94	70 - 130	5	20
1,1-Dichloroethene	<5.0		49.8	47.4		ug/L		95	70 - 130	4	20
Benzene	<5.0		50.0	46.9		ug/L		94	70 - 130	5	20
Bromochloromethane	<5.0		49.6	44.8		ug/L		90	70 - 130	6	20
1,2-Dichloropropane	<5.0		49.8	48.1		ug/L		97	70 - 130	6	20
Bromodichloromethane	<5.0		49.8	48.1		ug/L		96	70 - 130	6	20
1,3-Dichloropropane	<5.0		50.2	45.6		ug/L		91	70 - 130	6	20
Bromoform	<5.0		50.0	48.8		ug/L		98	70 - 130	6	20
Carbon disulfide	<10		100	97.0		ug/L		97	70 - 130	3	20
Carbon tetrachloride	<2.0		50.0	51.7		ug/L		103	70 - 130	3	20
Chloroform	<4.0		49.9	44.6		ug/L		89	70 - 130	4	20
1,1,2,2-Tetrachloroethane	<5.0		50.0	47.1		ug/L		94	70 - 130	10	20
cis-1,2-Dichloroethene	<5.0		49.5	48.4		ug/L		98	70 - 130	4	20
Dibromochloromethane	<5.0		49.9	47.7		ug/L		96	70 - 130	4	20
1,1,2-Trichloroethane	<5.0		49.9	47.7		ug/L		96	70 - 130	6	20
Dibromomethane	<5.0		49.9	47.1		ug/L		94	70 - 130	6	20
Isopropylbenzene	<5.0		49.9	48.3		ug/L		97	70 - 130	5	20
1,2,3-Trichloropropane	<5.0		50.1	43.9		ug/L		88	70 - 130	11	20
Methylene Chloride	<5.0		50.1	45.4		ug/L		91	70 - 130	5	20
1,2,4-Trimethylbenzene	<5.0		50.2	46.5		ug/L		93	70 - 130	8	20
Styrene	<5.0		50.1	44.0		ug/L		88	70 - 130	5	20
1,3,5-Trimethylbenzene	<5.0		49.9	47.7		ug/L		96	70 - 130	8	20
Tetrachloroethene	<5.0		50.0	49.6		ug/L		99	70 - 130	5	20
Toluene	<5.0		50.1	48.4		ug/L		97	70 - 130	6	20

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 192-25236-E-1 MSD

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Trichloroethene	<5.0		50.4	47.6		ug/L		95	70 - 130	5	20
Vinyl chloride	<2.0		50.1	45.6		ug/L		91	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Dibromofluoromethane (Surr)	99		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120

Lab Sample ID: 192-25236-F-1 MS

Matrix: Water

Analysis Batch: 40636

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	<5.0		50.0	61.6		ug/L		123	70 - 130
1,2-Dibromoethane	<5.0		50.2	52.7		ug/L		105	70 - 130
1,1-Dichloroethane	<5.0		49.9	50.1		ug/L		100	70 - 130
1-Bromo-2-chloroethane	<5.0		50.2	51.7		ug/L		103	70 - 130
1,2-Dichloroethane	<5.0		50.0	49.3		ug/L		99	70 - 130
1,1-Dichloroethene	<5.0		49.8	49.5		ug/L		99	70 - 130
Benzene	<5.0		50.0	49.6		ug/L		99	70 - 130
Bromochloromethane	<5.0		49.6	47.4		ug/L		96	70 - 130
1,2-Dichloropropane	<5.0		49.8	51.2		ug/L		103	70 - 130
Bromodichloromethane	<5.0		49.8	50.8		ug/L		102	70 - 130
1,3-Dichloropropane	<5.0		50.2	48.2		ug/L		96	70 - 130
Bromoform	<5.0		50.0	51.7		ug/L		104	70 - 130
Carbon disulfide	<10		100	100		ug/L		100	70 - 130
Carbon tetrachloride	<2.0		50.0	53.2		ug/L		106	70 - 130
Chloroform	<4.0		49.9	46.4		ug/L		93	70 - 130
1,1,2,2-Tetrachloroethane	<5.0		50.0	52.3		ug/L		105	70 - 130
cis-1,2-Dichloroethene	<5.0		49.5	50.6		ug/L		102	70 - 130
Dibromochloromethane	<5.0		49.9	49.7		ug/L		100	70 - 130
1,1,2-Trichloroethane	<5.0		49.9	50.7		ug/L		102	70 - 130
Dibromomethane	<5.0		49.9	49.9		ug/L		100	70 - 130
Isopropylbenzene	<5.0		49.9	50.9		ug/L		102	70 - 130
1,2,3-Trichloropropane	<5.0		50.1	49.0		ug/L		98	70 - 130
Methylene Chloride	<5.0		50.1	47.7		ug/L		95	70 - 130
1,2,4-Trimethylbenzene	<5.0		50.2	50.6		ug/L		101	70 - 130
Styrene	<5.0		50.1	46.2		ug/L		92	70 - 130
1,3,5-Trimethylbenzene	<5.0		49.9	51.7		ug/L		104	70 - 130
Tetrachloroethene	<5.0		50.0	52.1		ug/L		104	70 - 130
Toluene	<5.0		50.1	51.2		ug/L		102	70 - 130
Trichloroethene	<5.0		50.4	50.2		ug/L		100	70 - 130
Vinyl chloride	<2.0		50.1	48.3		ug/L		96	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
Dibromofluoromethane (Surr)	100		80 - 120
Toluene-d8 (Surr)	99		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 8260D SIM - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 192-40700/7

Matrix: Water

Analysis Batch: 40700

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 12:41	1
1,2-Dibromoethane	<0.050		0.050		ug/L			10/17/25 12:41	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 12:41	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 12:41	1

Lab Sample ID: LCS 192-40700/1005

Matrix: Water

Analysis Batch: 40700

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.500	0.570		ug/L		114	70 - 130
1,2-Dibromoethane	0.502	0.484		ug/L		96	70 - 130
1,1,2,2-Tetrachloroethane	0.500	0.498		ug/L		100	70 - 130
1,2,3-Trichloropropane	0.501	0.453		ug/L		90	70 - 130

Lab Sample ID: MB 192-40723/6

Matrix: Water

Analysis Batch: 40723

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	<0.20		0.20		ug/L			10/17/25 22:55	1
1,2-Dibromoethane	<0.050		0.050		ug/L			10/17/25 22:55	1
1,1,2,2-Tetrachloroethane	<0.076		0.076		ug/L			10/17/25 22:55	1
1,2,3-Trichloropropane	<0.020		0.020		ug/L			10/17/25 22:55	1

Lab Sample ID: LCS 192-40723/1004

Matrix: Water

Analysis Batch: 40723

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2-Dibromo-3-Chloropropane	0.500	0.646		ug/L		129	70 - 130
1,2-Dibromoethane	0.502	0.474		ug/L		94	70 - 130
1,1,2,2-Tetrachloroethane	0.500	0.536		ug/L		107	70 - 130
1,2,3-Trichloropropane	0.501	0.487		ug/L		97	70 - 130

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 192-40553/15

Matrix: Water

Analysis Batch: 40553

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.20		0.20		mg/L			10/14/25 17:03	1
Chloride	<0.20		0.20		mg/L			10/14/25 17:03	1
Sulfate	<0.20		0.20		mg/L			10/14/25 17:03	1

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 192-40553/16

Matrix: Water

Analysis Batch: 40553

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	25.0	24.2		mg/L		97	90 - 110
Chloride	25.0	24.1		mg/L		97	90 - 110
Sulfate	25.0	24.5		mg/L		98	90 - 110

Lab Sample ID: 192-25323-B-1 MS

Matrix: Water

Analysis Batch: 40553

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	<20		2500	2450		mg/L		98	80 - 120
Chloride	65		2500	2530		mg/L		98	80 - 120
Sulfate	63		2500	2550		mg/L		100	80 - 120

Lab Sample ID: 192-25323-B-1 MSD

Matrix: Water

Analysis Batch: 40553

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<20		2500	2430		mg/L		97	80 - 120	1	10
Chloride	65		2500	2490		mg/L		97	80 - 120	1	10
Sulfate	63		2500	2520		mg/L		98	80 - 120	1	10

Lab Sample ID: MB 192-40584/11

Matrix: Water

Analysis Batch: 40584

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.20		0.20		mg/L			10/15/25 15:06	1
Chloride	<0.20		0.20		mg/L			10/15/25 15:06	1
Sulfate	<0.20		0.20		mg/L			10/15/25 15:06	1

Lab Sample ID: LCS 192-40584/12

Matrix: Water

Analysis Batch: 40584

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	25.0	25.0		mg/L		100	90 - 110
Chloride	25.0	24.9		mg/L		100	90 - 110
Sulfate	25.0	25.3		mg/L		101	90 - 110

Lab Sample ID: MB 192-40632/22

Matrix: Water

Analysis Batch: 40632

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromide	<0.20		0.20		mg/L			10/16/25 19:31	1
Chloride	<0.20		0.20		mg/L			10/16/25 19:31	1
Sulfate	<0.20		0.20		mg/L			10/16/25 19:31	1

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 192-40632/23

Matrix: Water

Analysis Batch: 40632

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	25.0	23.5		mg/L		94	90 - 110
Chloride	25.0	23.6		mg/L		94	90 - 110
Sulfate	25.0	23.8		mg/L		95	90 - 110

Lab Sample ID: 192-25392-B-1 MS

Matrix: Water

Analysis Batch: 40632

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Bromide	<20		2500	2300		mg/L		92	80 - 120
Chloride	71		2500	2380		mg/L		92	80 - 120
Sulfate	67		2500	2400		mg/L		93	80 - 120

Lab Sample ID: 192-25392-B-1 MSD

Matrix: Water

Analysis Batch: 40632

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Bromide	<20		2500	2310		mg/L		92	80 - 120	0	10
Chloride	71		2500	2380		mg/L		92	80 - 120	0	10
Sulfate	67		2500	2400		mg/L		93	80 - 120	0	10

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 860-269524/1-B

Matrix: Water

Analysis Batch: 271663

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 271286

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Antimony	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Beryllium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Barium	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 14:25	1
Thallium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Nickel	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Vanadium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Silver	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Arsenic	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 14:25	1
Copper	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 14:25	1
Lead	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Zinc	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 14:25	1
Selenium	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1
Chromium	<0.0040		0.0040		mg/L		10/27/25 13:30	10/28/25 14:25	1
Cobalt	<0.0020		0.0020		mg/L		10/27/25 13:30	10/28/25 14:25	1

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: LCS 860-269524/2-B

Matrix: Water

Analysis Batch: 271663

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 271286

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	0.100	0.0999		mg/L		100	80 - 120
Antimony	0.100	0.0880		mg/L		88	80 - 120
Beryllium	0.100	0.0989		mg/L		99	80 - 120
Barium	0.100	0.0971		mg/L		97	80 - 120
Thallium	0.100	0.102		mg/L		102	80 - 120
Nickel	0.100	0.0987		mg/L		99	80 - 120
Vanadium	0.100	0.100		mg/L		100	80 - 120
Silver	0.0500	0.0530		mg/L		106	80 - 120
Arsenic	0.100	0.0991		mg/L		99	80 - 120
Copper	0.100	0.0983		mg/L		98	80 - 120
Lead	0.100	0.100		mg/L		100	80 - 120
Zinc	0.100	0.102		mg/L		102	80 - 120
Selenium	0.100	0.0998		mg/L		100	80 - 120
Chromium	0.100	0.100		mg/L		100	80 - 120
Cobalt	0.100	0.0991		mg/L		99	80 - 120

Lab Sample ID: LCSD 860-269524/3-B

Matrix: Water

Analysis Batch: 271663

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 271286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	0.100	0.101		mg/L		101	80 - 120	1	20
Antimony	0.100	0.0911		mg/L		91	80 - 120	3	20
Beryllium	0.100	0.0999		mg/L		100	80 - 120	1	20
Barium	0.100	0.0979		mg/L		98	80 - 120	1	20
Thallium	0.100	0.102		mg/L		102	80 - 120	0	20
Nickel	0.100	0.0997		mg/L		100	80 - 120	1	20
Vanadium	0.100	0.100		mg/L		100	80 - 120	0	20
Silver	0.0500	0.0535		mg/L		107	80 - 120	1	20
Arsenic	0.100	0.101		mg/L		101	80 - 120	2	20
Copper	0.100	0.0986		mg/L		99	80 - 120	0	20
Lead	0.100	0.100		mg/L		100	80 - 120	0	20
Zinc	0.100	0.0991		mg/L		99	80 - 120	2	20
Selenium	0.100	0.100		mg/L		100	80 - 120	0	20
Chromium	0.100	0.101		mg/L		101	80 - 120	1	20
Cobalt	0.100	0.0998		mg/L		100	80 - 120	1	20

Lab Sample ID: 860-114167-F-6-E MS

Matrix: Water

Analysis Batch: 271663

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 271286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Cadmium	<0.0040		0.100	0.0900		mg/L		90	75 - 125
Antimony	0.0095		0.100	0.112		mg/L		102	75 - 125
Beryllium	<0.0040		0.100	0.106		mg/L		106	75 - 125
Barium	0.063	F1	0.100	0.182		mg/L		118	75 - 125
Thallium	<0.0040		0.100	0.108		mg/L		108	75 - 125
Nickel	<0.0040		0.100	0.0955		mg/L		95	75 - 125
Vanadium	<0.0040		0.100	0.106		mg/L		103	75 - 125

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QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 860-114167-F-6-E MS

Matrix: Water

Analysis Batch: 271663

Client Sample ID: Matrix Spike

Prep Type: Dissolved

Prep Batch: 271286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	<0.0040		0.0500	0.0469		mg/L		94	75 - 125
Arsenic	<0.0080		0.100	0.103		mg/L		100	75 - 125
Copper	<0.0080		0.100	0.0908		mg/L		91	75 - 125
Lead	<0.0040		0.100	0.107		mg/L		106	75 - 125
Zinc	<0.0080		0.100	0.0952		mg/L		95	75 - 125
Selenium	<0.0040		0.100	0.103		mg/L		101	75 - 125
Chromium	<0.0080		0.100	0.0990		mg/L		99	75 - 125
Cobalt	<0.0040		0.100	0.0947		mg/L		95	75 - 125

Lab Sample ID: 860-114167-F-6-F MSD

Matrix: Water

Analysis Batch: 271663

Client Sample ID: Matrix Spike Duplicate

Prep Type: Dissolved

Prep Batch: 271286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Cadmium	<0.0040		0.100	0.0890		mg/L		89	75 - 125	1	20
Antimony	0.0095		0.100	0.109		mg/L		100	75 - 125	2	20
Beryllium	<0.0040		0.100	0.102		mg/L		102	75 - 125	5	20
Barium	0.063	F1	0.100	0.189	F1	mg/L		126	75 - 125	4	20
Thallium	<0.0040		0.100	0.109		mg/L		109	75 - 125	0	20
Nickel	<0.0040		0.100	0.0905		mg/L		90	75 - 125	5	20
Vanadium	<0.0040		0.100	0.105		mg/L		101	75 - 125	2	20
Silver	<0.0040		0.0500	0.0463		mg/L		93	75 - 125	1	20
Arsenic	<0.0080		0.100	0.101		mg/L		98	75 - 125	2	20
Copper	<0.0080		0.100	0.0887		mg/L		89	75 - 125	2	20
Lead	<0.0040		0.100	0.107		mg/L		107	75 - 125	0	20
Zinc	<0.0080		0.100	0.0939		mg/L		94	75 - 125	1	20
Selenium	<0.0040		0.100	0.103		mg/L		101	75 - 125	0	20
Chromium	<0.0080		0.100	0.0965		mg/L		97	75 - 125	3	20
Cobalt	<0.0040		0.100	0.0926		mg/L		93	75 - 125	2	20

Method: 2540 C-2020 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 192-40522/1

Matrix: Water

Analysis Batch: 40522

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids	<25		25		mg/L			10/14/25 12:46	1

Lab Sample ID: LCS 192-40522/2

Matrix: Water

Analysis Batch: 40522

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Dissolved Solids	2000	1960		mg/L		98	85 - 115

Eurofins Arkansas

QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 2540 C-2020 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 192-25198-A-1 DU

Matrix: Water

Analysis Batch: 40522

Client Sample ID: Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids	3900		3900		mg/L		1	10

Method: 5310 C-2014 - Total Organic Carbon/Persulfate - Ultrav

Lab Sample ID: MB 192-40455/5

Matrix: Water

Analysis Batch: 40455

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0		mg/L			10/10/25 18:45	1

Lab Sample ID: LCS 192-40455/6

Matrix: Water

Analysis Batch: 40455

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: 192-25231-A-1 MS

Matrix: Water

Analysis Batch: 40455

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Total Organic Carbon	3.4		10.0	13.8		mg/L		104	80 - 120

Lab Sample ID: 192-25231-A-1 MSD

Matrix: Water

Analysis Batch: 40455

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Total Organic Carbon	3.4		10.0	13.6		mg/L		102	80 - 120	1	25

Method: 9020B - Organic Halides, Total (TOX)

Lab Sample ID: MB 280-718998/2

Matrix: Water

Analysis Batch: 718998

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOX Dup	<30		30		ug/L			10/21/25 11:38	1

Lab Sample ID: LCS 280-718998/4

Matrix: Water

Analysis Batch: 718998

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
TOX Dup	100	108		ug/L		108	78 - 114

Eurofins Arkansas

QC Sample Results

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method: 9020B - Organic Halides, Total (TOX) (Continued)

Lab Sample ID: 310-317886-D-12 MS

Matrix: Water

Analysis Batch: 718998

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
TOX Dup	<60		100	103		ug/L		103	78 - 114		

Lab Sample ID: 310-317886-D-12 MSD

Matrix: Water

Analysis Batch: 718998

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
TOX Dup	<60		100	97.0		ug/L		97	78 - 114	6	23

QC Association Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

GC/MS VOA

Analysis Batch: 40598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	8260D	
192-25235-1	Sump-1-20251009	Total/NA	Water	8260D	
192-25235-1	Sump-1-20251009	Total/NA	Water	8260D	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	8260D	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	8260D	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	8260D	
192-25235-5	Sump-4-20251009	Total/NA	Water	8260D	
192-25235-10	FB-20251009	Total/NA	Water	8260D	
192-25235-11	TB-20251009	Total/NA	Water	8260D	
MB 192-40598/14	Method Blank	Total/NA	Water	8260D	
LCS 192-40598/1012	Lab Control Sample	Total/NA	Water	8260D	
192-25235-5 MS	Sump-4-20251009	Total/NA	Water	8260D	
192-25235-5 MSD	Sump-4-20251009	Total/NA	Water	8260D	

Analysis Batch: 40603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-3	Sump-2-20251009	Total/NA	Water	8260D	
192-25235-3	Sump-2-20251009	Total/NA	Water	8260D	
192-25235-4	Sump-3-20251009	Total/NA	Water	8260D	
192-25235-4	Sump-3-20251009	Total/NA	Water	8260D	
192-25235-4	Sump-3-20251009	Total/NA	Water	8260D	
192-25235-6	Sump-11-20251009	Total/NA	Water	8260D	
192-25235-6	Sump-11-20251009	Total/NA	Water	8260D	
192-25235-6	Sump-11-20251009	Total/NA	Water	8260D	
192-25235-6	Sump-11-20251009	Total/NA	Water	8260D	
192-25235-7	Sump-12-20251009	Total/NA	Water	8260D	
192-25235-8	Sump-13-20251009	Total/NA	Water	8260D	
192-25235-8	Sump-13-20251009	Total/NA	Water	8260D	
192-25235-8	Sump-13-20251009	Total/NA	Water	8260D	
192-25235-8	Sump-13-20251009	Total/NA	Water	8260D	
192-25235-8	Sump-13-20251009	Total/NA	Water	8260D	
192-25235-9	Sump-P-20251009	Total/NA	Water	8260D	
192-25235-9	Sump-P-20251009	Total/NA	Water	8260D	
192-25235-9	Sump-P-20251009	Total/NA	Water	8260D	
MB 192-40603/14	Method Blank	Total/NA	Water	8260D	
LCS 192-40603/1012	Lab Control Sample	Total/NA	Water	8260D	
192-25235-7 MS	Sump-12-20251009	Total/NA	Water	8260D	
192-25235-7 MSD	Sump-12-20251009	Total/NA	Water	8260D	

Analysis Batch: 40636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	8260D	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	8260D	
192-25235-5	Sump-4-20251009	Total/NA	Water	8260D	
192-25235-5	Sump-4-20251009	Total/NA	Water	8260D	
192-25235-5	Sump-4-20251009	Total/NA	Water	8260D	
192-25235-7	Sump-12-20251009	Total/NA	Water	8260D	
192-25235-7	Sump-12-20251009	Total/NA	Water	8260D	
MB 192-40636/7	Method Blank	Total/NA	Water	8260D	
LCS 192-40636/1005	Lab Control Sample	Total/NA	Water	8260D	
192-25236-E-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260D	
192-25236-F-1 MS	Matrix Spike	Total/NA	Water	8260D	

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QC Association Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

GC/MS VOA

Analysis Batch: 40700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-5	Sump-4-20251009	Total/NA	Water	8260D SIM	
192-25235-8	Sump-13-20251009	Total/NA	Water	8260D SIM	
192-25235-9	Sump-P-20251009	Total/NA	Water	8260D SIM	
192-25235-10	FB-20251009	Total/NA	Water	8260D SIM	
192-25235-11	TB-20251009	Total/NA	Water	8260D SIM	
MB 192-40700/7	Method Blank	Total/NA	Water	8260D SIM	
LCS 192-40700/1005	Lab Control Sample	Total/NA	Water	8260D SIM	

Analysis Batch: 40723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	8260D SIM	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	8260D SIM	
192-25235-3	Sump-2-20251009	Total/NA	Water	8260D SIM	
192-25235-4	Sump-3-20251009	Total/NA	Water	8260D SIM	
192-25235-6	Sump-11-20251009	Total/NA	Water	8260D SIM	
192-25235-7	Sump-12-20251009	Total/NA	Water	8260D SIM	
MB 192-40723/6	Method Blank	Total/NA	Water	8260D SIM	
LCS 192-40723/1004	Lab Control Sample	Total/NA	Water	8260D SIM	

HPLC/IC

Analysis Batch: 40553

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	9056A	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	9056A	
192-25235-3	Sump-2-20251009	Total/NA	Water	9056A	
192-25235-4	Sump-3-20251009	Total/NA	Water	9056A	
192-25235-5	Sump-4-20251009	Total/NA	Water	9056A	
192-25235-6	Sump-11-20251009	Total/NA	Water	9056A	
192-25235-7	Sump-12-20251009	Total/NA	Water	9056A	
192-25235-8	Sump-13-20251009	Total/NA	Water	9056A	
192-25235-9	Sump-P-20251009	Total/NA	Water	9056A	
MB 192-40553/15	Method Blank	Total/NA	Water	9056A	
LCS 192-40553/16	Lab Control Sample	Total/NA	Water	9056A	
192-25323-B-1 MS	Matrix Spike	Total/NA	Water	9056A	
192-25323-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Analysis Batch: 40584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	9056A	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	9056A	
192-25235-3	Sump-2-20251009	Total/NA	Water	9056A	
192-25235-6	Sump-11-20251009	Total/NA	Water	9056A	
192-25235-9	Sump-P-20251009	Total/NA	Water	9056A	
MB 192-40584/11	Method Blank	Total/NA	Water	9056A	
LCS 192-40584/12	Lab Control Sample	Total/NA	Water	9056A	

Analysis Batch: 40632

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-5	Sump-4-20251009	Total/NA	Water	9056A	
MB 192-40632/22	Method Blank	Total/NA	Water	9056A	

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QC Association Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

HPLC/IC (Continued)

Analysis Batch: 40632 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 192-40632/23	Lab Control Sample	Total/NA	Water	9056A	
192-25392-B-1 MS	Matrix Spike	Total/NA	Water	9056A	
192-25392-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	

Metals

Filtration Batch: 269524

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-269524/1-B	Method Blank	Total/NA	Water	Filtration	
LCS 860-269524/2-B	Lab Control Sample	Total/NA	Water	Filtration	
LCSD 860-269524/3-B	Lab Control Sample Dup	Total/NA	Water	Filtration	
860-114167-F-6-E MS	Matrix Spike	Dissolved	Water	Filtration	
860-114167-F-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	Filtration	

Prep Batch: 271270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	3010A	
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	3010A	
192-25235-3	Sump-2-20251009	Total/NA	Water	3010A	
192-25235-4	Sump-3-20251009	Total/NA	Water	3010A	
192-25235-5	Sump-4-20251009	Total/NA	Water	3010A	

Prep Batch: 271286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-6	Sump-11-20251009	Total/NA	Water	3010A	
192-25235-7	Sump-12-20251009	Total/NA	Water	3010A	
192-25235-8	Sump-13-20251009	Total/NA	Water	3010A	
192-25235-9	Sump-P-20251009	Total/NA	Water	3010A	
MB 860-269524/1-B	Method Blank	Total/NA	Water	3010A	269524
LCS 860-269524/2-B	Lab Control Sample	Total/NA	Water	3010A	269524
LCSD 860-269524/3-B	Lab Control Sample Dup	Total/NA	Water	3010A	269524
860-114167-F-6-E MS	Matrix Spike	Dissolved	Water	3010A	269524
860-114167-F-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	269524

Analysis Batch: 271600

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	6020B	271270
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	6020B	271270
192-25235-3	Sump-2-20251009	Total/NA	Water	6020B	271270
192-25235-4	Sump-3-20251009	Total/NA	Water	6020B	271270
192-25235-5	Sump-4-20251009	Total/NA	Water	6020B	271270

Analysis Batch: 271629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-1	Sump-1-20251009	Total/NA	Water	6020B	271270
192-25235-2	Sump-1-20251009 Dup	Total/NA	Water	6020B	271270
192-25235-3	Sump-2-20251009	Total/NA	Water	6020B	271270
192-25235-4	Sump-3-20251009	Total/NA	Water	6020B	271270
192-25235-5	Sump-4-20251009	Total/NA	Water	6020B	271270

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QC Association Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Metals

Analysis Batch: 271663

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 860-269524/1-B	Method Blank	Total/NA	Water	6020B	271286
LCS 860-269524/2-B	Lab Control Sample	Total/NA	Water	6020B	271286
LCSD 860-269524/3-B	Lab Control Sample Dup	Total/NA	Water	6020B	271286
860-114167-F-6-E MS	Matrix Spike	Dissolved	Water	6020B	271286
860-114167-F-6-F MSD	Matrix Spike Duplicate	Dissolved	Water	6020B	271286

Analysis Batch: 272044

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-6	Sump-11-20251009	Total/NA	Water	6020B	271286
192-25235-7	Sump-12-20251009	Total/NA	Water	6020B	271286
192-25235-8	Sump-13-20251009	Total/NA	Water	6020B	271286
192-25235-9	Sump-P-20251009	Total/NA	Water	6020B	271286

General Chemistry

Analysis Batch: 40455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-9	Sump-P-20251009	Total/NA	Water	5310 C-2014	
MB 192-40455/5	Method Blank	Total/NA	Water	5310 C-2014	
LCS 192-40455/6	Lab Control Sample	Total/NA	Water	5310 C-2014	
192-25231-A-1 MS	Matrix Spike	Total/NA	Water	5310 C-2014	
192-25231-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	5310 C-2014	

Analysis Batch: 40522

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-9	Sump-P-20251009	Total/NA	Water	2540 C-2020	
MB 192-40522/1	Method Blank	Total/NA	Water	2540 C-2020	
LCS 192-40522/2	Lab Control Sample	Total/NA	Water	2540 C-2020	
192-25198-A-1 DU	Duplicate	Total/NA	Water	2540 C-2020	

Analysis Batch: 718998

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
192-25235-9	Sump-P-20251009	Total/NA	Water	9020B	
MB 280-718998/2	Method Blank	Total/NA	Water	9020B	
LCS 280-718998/4	Lab Control Sample	Total/NA	Water	9020B	
310-317886-D-12 MS	Matrix Spike	Total/NA	Water	9020B	
310-317886-D-12 MSD	Matrix Spike Duplicate	Total/NA	Water	9020B	

Lab Chronicle

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-1-20251009

Lab Sample ID: 192-25235-1

Date Collected: 10/09/25 09:55

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40598	LC5	EET ARK	10/16/25 01:42
Total/NA	Analysis	8260D		10	40598	LC5	EET ARK	10/16/25 02:12
Total/NA	Analysis	8260D		100	40598	LC5	EET ARK	10/16/25 02:42
Total/NA	Analysis	8260D		1000	40636	SS	EET ARK	10/16/25 18:53
Total/NA	Analysis	8260D SIM		1	40723	LC5	EET ARK	10/18/25 00:35
Total/NA	Analysis	9056A		1000	40584	SS	EET ARK	10/15/25 18:33
Total/NA	Analysis	9056A		10	40553	SS	EET ARK	10/15/25 05:38
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271600	DP	EET HOU	10/28/25 03:53
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271629	DP	EET HOU	10/28/25 14:45

Client Sample ID: Sump-1-20251009 Dup

Lab Sample ID: 192-25235-2

Date Collected: 10/09/25 09:55

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40598	LC5	EET ARK	10/16/25 03:12
Total/NA	Analysis	8260D		10	40598	LC5	EET ARK	10/16/25 03:42
Total/NA	Analysis	8260D		100	40598	LC5	EET ARK	10/16/25 04:12
Total/NA	Analysis	8260D		1000	40636	SS	EET ARK	10/16/25 19:23
Total/NA	Analysis	8260D SIM		1	40723	LC5	EET ARK	10/18/25 01:00
Total/NA	Analysis	9056A		1000	40584	SS	EET ARK	10/15/25 18:56
Total/NA	Analysis	9056A		10	40553	SS	EET ARK	10/15/25 06:00
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271600	DP	EET HOU	10/28/25 03:56
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271629	DP	EET HOU	10/28/25 14:49

Client Sample ID: Sump-2-20251009

Lab Sample ID: 192-25235-3

Date Collected: 10/09/25 10:50

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40603	SS	EET ARK	10/15/25 20:52
Total/NA	Analysis	8260D		10	40603	SS	EET ARK	10/15/25 21:18
Total/NA	Analysis	8260D SIM		1	40723	LC5	EET ARK	10/17/25 23:45
Total/NA	Analysis	9056A		1000	40584	SS	EET ARK	10/15/25 20:04
Total/NA	Analysis	9056A		100	40553	SS	EET ARK	10/15/25 06:23
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271600	DP	EET HOU	10/28/25 04:00
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271629	DP	EET HOU	10/28/25 14:52

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Lab Chronicle

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-3-20251009

Lab Sample ID: 192-25235-4

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40603	SS	EET ARK	10/15/25 21:44
Total/NA	Analysis	8260D		10	40603	SS	EET ARK	10/15/25 22:10
Total/NA	Analysis	8260D		100	40603	SS	EET ARK	10/15/25 22:36
Total/NA	Analysis	8260D SIM		1	40723	LC5	EET ARK	10/18/25 01:24
Total/NA	Analysis	9056A		100	40553	SS	EET ARK	10/15/25 06:46
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271600	DP	EET HOU	10/28/25 04:03
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271629	DP	EET HOU	10/28/25 14:55

Client Sample ID: Sump-4-20251009

Lab Sample ID: 192-25235-5

Date Collected: 10/09/25 11:00

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40598	LC5	EET ARK	10/16/25 00:12
Total/NA	Analysis	8260D		10	40636	SS	EET ARK	10/16/25 17:23
Total/NA	Analysis	8260D		100	40636	SS	EET ARK	10/16/25 17:53
Total/NA	Analysis	8260D		1000	40636	SS	EET ARK	10/16/25 18:23
Total/NA	Analysis	8260D SIM		1	40700	LC5	EET ARK	10/17/25 16:13
Total/NA	Analysis	9056A		10	40553	SS	EET ARK	10/15/25 07:09
Total/NA	Analysis	9056A		100	40632	SS	EET ARK	10/16/25 21:48
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271600	DP	EET HOU	10/28/25 04:12
Total/NA	Prep	3010A			271270	MD	EET HOU	10/27/25 12:22
Total/NA	Analysis	6020B		5	271629	DP	EET HOU	10/28/25 14:58

Client Sample ID: Sump-11-20251009

Lab Sample ID: 192-25235-6

Date Collected: 10/09/25 12:30

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40603	SS	EET ARK	10/15/25 23:02
Total/NA	Analysis	8260D		1000	40603	SS	EET ARK	10/15/25 23:28
Total/NA	Analysis	8260D		10	40603	SS	EET ARK	10/15/25 23:54
Total/NA	Analysis	8260D		100	40603	SS	EET ARK	10/16/25 00:20
Total/NA	Analysis	8260D SIM		1	40723	LC5	EET ARK	10/18/25 01:49
Total/NA	Analysis	9056A		1000	40584	SS	EET ARK	10/15/25 20:50
Total/NA	Analysis	9056A		100	40553	SS	EET ARK	10/15/25 07:32
Total/NA	Prep	3010A			271286	MD	EET HOU	10/27/25 13:30
Total/NA	Analysis	6020B		5	272044	DP	EET HOU	10/28/25 17:30

Eurofins Arkansas

Lab Chronicle

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: Sump-12-20251009

Lab Sample ID: 192-25235-7

Date Collected: 10/09/25 12:50

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		10	40636	SS	EET ARK	10/16/25 19:53
Total/NA	Analysis	8260D		100	40636	SS	EET ARK	10/16/25 20:23
Total/NA	Analysis	8260D		1	40603	SS	EET ARK	10/16/25 00:46
Total/NA	Analysis	8260D SIM		1	40723	LC5	EET ARK	10/18/25 00:10
Total/NA	Analysis	9056A		10	40553	SS	EET ARK	10/15/25 07:54
Total/NA	Prep	3010A			271286	MD	EET HOU	10/27/25 13:30
Total/NA	Analysis	6020B		1	272044	DP	EET HOU	10/28/25 17:33

Client Sample ID: Sump-13-20251009

Lab Sample ID: 192-25235-8

Date Collected: 10/09/25 11:25

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40603	SS	EET ARK	10/16/25 02:04
Total/NA	Analysis	8260D		10	40603	SS	EET ARK	10/16/25 02:30
Total/NA	Analysis	8260D		100	40603	SS	EET ARK	10/16/25 02:56
Total/NA	Analysis	8260D		1000	40603	SS	EET ARK	10/16/25 03:22
Total/NA	Analysis	8260D SIM		1	40700	LC5	EET ARK	10/17/25 16:38
Total/NA	Analysis	9056A		10	40553	SS	EET ARK	10/15/25 08:17
Total/NA	Prep	3010A			271286	MD	EET HOU	10/27/25 13:30
Total/NA	Analysis	6020B		1	272044	DP	EET HOU	10/28/25 17:36

Client Sample ID: Sump-P-20251009

Lab Sample ID: 192-25235-9

Date Collected: 10/09/25 12:05

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40603	SS	EET ARK	10/16/25 03:48
Total/NA	Analysis	8260D		10	40603	SS	EET ARK	10/16/25 04:14
Total/NA	Analysis	8260D		100	40603	SS	EET ARK	10/16/25 04:41
Total/NA	Analysis	8260D SIM		1	40700	LC5	EET ARK	10/17/25 17:03
Total/NA	Analysis	9056A		100	40584	SS	EET ARK	10/15/25 21:12
Total/NA	Analysis	9056A		10	40553	SS	EET ARK	10/15/25 08:40
Total/NA	Prep	3010A			271286	MD	EET HOU	10/27/25 13:30
Total/NA	Analysis	6020B		1	272044	DP	EET HOU	10/28/25 17:39
Total/NA	Analysis	2540 C-2020		1	40522	JD	EET ARK	10/14/25 12:46
Total/NA	Analysis	5310 C-2014		1	40455	FOR	EET ARK	10/10/25 21:25
Total/NA	Analysis	9020B		10	718998	CAI	EET DEN	10/21/25 11:38

Lab Chronicle

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Client Sample ID: FB-20251009

Lab Sample ID: 192-25235-10

Date Collected: 10/09/25 11:10

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40598	LC5	EET ARK	10/15/25 22:13
Total/NA	Analysis	8260D SIM		1	40700	LC5	EET ARK	10/17/25 15:24

Client Sample ID: TB-20251009

Lab Sample ID: 192-25235-11

Date Collected: 10/09/25 09:30

Matrix: Water

Date Received: 10/09/25 14:20

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	40598	LC5	EET ARK	10/15/25 22:42
Total/NA	Analysis	8260D SIM		1	40700	LC5	EET ARK	10/17/25 15:48

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Laboratory: Eurofins Arkansas

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	60-00889	03-02-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
8260D SIM		Water	1,1,2,2-Tetrachloroethane
8260D SIM		Water	1,2,3-Trichloropropane
8260D SIM		Water	1,2-Dibromo-3-Chloropropane
8260D SIM		Water	1,2-Dibromoethane

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-26
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	88-00687	04-02-26
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-26
Connecticut	State	PH-0686	10-21-25
Florida	NELAP	E87667	06-30-26
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-26
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-26
Kentucky (VW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-26
Minnesota	NELAP	1788752	10-21-25
Montana (DW)	State	CERT0117	01-01-26
Nevada	State	CO00026	07-31-26
New Hampshire	NELAP	2053	04-28-26
New Jersey	NELAP	CO004	06-30-26
New York	NELAP	11964	10-26-25
North Dakota	State	R-034	07-25-25 *
Oklahoma	NELAP	8614	12-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	68-00664	10-23-25
South Carolina	State	72002001	01-18-26
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-26
US Fish & Wildlife	US Federal Programs	058448	07-31-26
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-26
Virginia	NELAP	460232	06-14-26
Washington	State	C583	08-03-26

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Arkansas

Accreditation/Certification Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Laboratory: Eurofins Denver (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-26
Wyoming (UST)	A2LA	2907.01	10-31-26

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-05-26
Florida	NELAP	E871002	06-30-26
Louisiana (All)	NELAP	03054	06-30-26
New Mexico	State	TX00122	06-30-26
Oklahoma	NELAP	1306	12-31-25
Texas	NELAP	T104704215	06-30-26
Texas	TCEQ Water Supply	T104704215	12-30-25
USDA	US Federal Programs	525-23-79-79507	03-20-26

Method Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET ARK
8260D SIM	Volatile Organic Compounds (GC/MS)	SW846	EET ARK
9056A	Anions, Ion Chromatography	SW846	EET ARK
6020B	Metals (ICP/MS)	SW846	EET HOU
2540 C-2020	Solids, Total Dissolved (TDS)	SM	EET ARK
5310 C-2014	Total Organic Carbon/Persulfate - Ultrav	SM	EET ARK
9020B	Organic Halides, Total (TOX)	SW846	EET DEN
3010A	Preparation, Total Metals	SW846	EET HOU
5030C	Purge and Trap	SW846	EET ARK

Protocol References:

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET ARK = Eurofins Arkansas, 8600 Kanis Rd, Little Rock, AR 72204, TEL (501)224-5060

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Albemarle Corporation
Project/Site: South Plant Sumps (RADD)

Job ID: 192-25235-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
192-25235-1	Sump-1-20251009	Water	10/09/25 09:55	10/09/25 14:20	Arkansas
192-25235-2	Sump-1-20251009 Dup	Water	10/09/25 09:55	10/09/25 14:20	Arkansas
192-25235-3	Sump-2-20251009	Water	10/09/25 10:50	10/09/25 14:20	Arkansas
192-25235-4	Sump-3-20251009	Water	10/09/25 11:25	10/09/25 14:20	Arkansas
192-25235-5	Sump-4-20251009	Water	10/09/25 11:00	10/09/25 14:20	Arkansas
192-25235-6	Sump-11-20251009	Water	10/09/25 12:30	10/09/25 14:20	Arkansas
192-25235-7	Sump-12-20251009	Water	10/09/25 12:50	10/09/25 14:20	Arkansas
192-25235-8	Sump-13-20251009	Water	10/09/25 11:25	10/09/25 14:20	Arkansas
192-25235-9	Sump-P-20251009	Water	10/09/25 12:05	10/09/25 14:20	Arkansas
192-25235-10	FB-20251009	Water	10/09/25 11:10	10/09/25 14:20	Arkansas
192-25235-11	TB-20251009	Water	10/09/25 09:30	10/09/25 14:20	Arkansas

8600 Kanis Rd
Little Rock, AR 72204
Phone: 501-224-5060 Fax: 501-224-5075

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Client Information		Sample: <i>Mark Phillips / Matthew Levy</i>		Lab PM: Bradford, Steve		COC No: 192-4268-1660.1														
Client Contact: Mr. Stephen Stamps		Phone: (318) 230-0921		E-Mail: steve.bradford@et.eurofinsus.com		Page: Page 1 of 1														
Company: Albemarle Corporation		PWSID:		192-25235 COC		Job #:														
Address: 2270 Highway 79 South		Due Date Requested:		Analysis Requested		Preservation Codes: D - HNO3 A - HCL N - None S - H2SO4														
City: Magnolia		TAT Requested (days): <i>Standard</i>																		
State, Zip: AR, 71753		Compliance Project: ☐ Yes ☐ No																		
Phone:		PO #: 8000357344																		
Email: stephen.stamps@albemarle.com		WO #:																		
Project Name: South Plant Sumps (RADDD)		Project #: 19200565																		
Site: <i>Albemarle South Plant</i>		SSOW#:				Other:														
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/soil, BT=Tissue, A=Air, DW=Drinking Water)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B - Pb, As	8260D - ALB List	8260D_SIM - Standard List	9056A_ORGFM_28D - Br, Cl	6020B - (MOD) Appendix 1	5310C - TOC	2540C_Calc'd, 9056A_ORGFM_28D	9020B_Calc - TOX (DEH)	Total Number of containers	Special Instructions/Note:			
					Preservation Code:															
<i>Sump-1-20251009</i>		<i>10/9/25</i>	<i>955</i>	<i>G</i>	Water	<i>N</i>	<i>N</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-1-20251009 DUP</i>			<i>955</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-2-20251009</i>			<i>1050</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-3-20251009</i>			<i>1125</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-4-20251009</i>			<i>1100</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-11-20251009</i>			<i>1230</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-12-20251009</i>			<i>1250</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-13-20251009</i>			<i>1125</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>						<i>7</i>			
<i>Sump-P-20251009</i>			<i>1205</i>		Water			<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>X</i>	<i>7</i>			
<i>FB-20251009</i>			<i>1110</i>						<i>X</i>	<i>X</i>							<i>5</i>			
<i>TB-20251009</i>			<i>930</i>						<i>X</i>	<i>X</i>							<i>5</i>			
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological						Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months														
Deliverable Requested: I, II, III, IV, Other (specify)						Special Instructions/QC Requirements:														
Empty Kit Relinquished by:			Date:		Time:		Method of Shipment:													
Relinquished by: <i>[Signature]</i>			Date/Time: <i>10/9/25 1420</i>		Company: <i>Accom</i>		Received by: <i>[Signature]</i>						Date/Time: <i>10-9-25 1420</i>						Company:	
Relinquished by:			Date/Time:		Company:		Received by:						Date/Time:						Company:	
Relinquished by:			Date/Time:		Company:		Received by:						Date/Time:						Company:	
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:				Cooler Temperature(s) °C and Other Remarks:														

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Eurofins Arkansas

8600 Kanis Rd
Little Rock, AR 72204
Phone: 501-224-5060 Fax: 501-224-5075

Chain of Custody Record



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10/30/2025

Client Information (Sub Contract Lab)				Sampler N/A		Lab PM: Bradford, Steve		Carrier Tracking No(s): N/A		COC No: 192-1970.1			
Client Contact: Shipping/Receiving				Phone: N/A		E-Mail: steve.bradford@et.eurofinsus.com		State of Origin: Arkansas		Page: Page 1 of 1			
Company: Eurofins Environment Testing South Centr				Accreditations Required (See note): State Arkansas DEQ						Job #: 192-25235-1			
Address: 4145 Greenbriar Dr				Due Date Requested: 10/28/2025		Analysis Requested						Preservation Codes:	
City: Stafford				TAT Requested (days): N/A									
State, Zip: TX, 77477													
Phone: 281-240-4200(Tel)				PO #: N/A									
Email N/A				WO #: N/A									
Project Name: South Plant Sumps (RADD)				Project #: 19200565									
Site: N/A				SSOW#: N/A						Other: N/A			
Sample Identification - Client ID (Lab ID)				Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	6020B/3010A(MOD) Custom List	Total Number of Containers	Special Instructions/Note:	
Sump-1-20251009 (192-25235-1)				10/9/25	09:55 Central	G	Water		X		1		
Sump-1-20251009 Dup (192-25235-2)				10/9/25	09:55 Central	G	Water		X		1		
Sump-2-20251009 (192-25235-3)				10/9/25	10:50 Central	G	Water		X		1		
Sump-3-20251009 (192-25235-4)				10/9/25	11:25 Central	G	Water		X		1		
Sump-4-20251009 (192-25235-5)				10/9/25	11:00 Central	G	Water		X		1		
Sump-11-20251009 (192-25235-6)				10/9/25	12:30 Central	G	Water		X		1		
Sump-12-20251009 (192-25235-7)				10/9/25	12:50 Central	G	Water		X		1		
Sump-13-20251009 (192-25235-8)				10/9/25	11:25 Central	G	Water		X		1		
Sump-P-20251009 (192-25235-9)				10/9/25	12:05 Central	G	Water		X		1		
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.													
Possible Hazard Identification								Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)					
Unconfirmed								☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months					
Deliverable Requested: I II III, IV Other (specify)								Primary Deliverable Rank: 2					
								Special Instructions/QC Requirements:					
Empty Kit Relinquished by				Date:		Time:		Method of Shipment: Received					
Relinquished by: <i>[Signature]</i>				Date/Time: 10/20/25 1600		Company		Received by: <i>[Signature]</i>		Date/Time: OCT 21 2025			
Relinquished by:				Date/Time:		Company		Received by:		Date/Time:			
Relinquished by:				Date/Time:		Company		Received by: <i>[Signature]</i>		Date/Time: Time: 9:00			
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.		Cooler Temperature(s) °C and Other Remarks: <i>[Signature]</i>							

Login Sample Receipt Checklist

Client: Albemarle Corporation

Job Number: 192-25235-1

Login Number: 25235

List Number: 1

Creator: Vang, Matthew

List Source: Eurofins Arkansas

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Albemarle Corporation

Job Number: 192-25235-1

Login Number: 25235

List Number: 2

Creator: Little, Matthew L

List Source: Eurofins Denver

List Creation: 10/14/25 06:15 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Albemarle Corporation

Job Number: 192-25235-1

Login Number: 25235

List Number: 3

Creator: Torrez, Lisandra

List Source: Eurofins Houston

List Creation: 10/21/25 10:47 AM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

Data Validation Report

Project/Site: Albemarle Corporation/South Plant Sumps

Validating Chemist: Delaine Austin

Secondary Review Chemist: Jamie Herman

Event: 2SA 2025 Groundwater

Date: 11/04/2025

Date: 11/10/2025

Introduction:

This validation report documents the data review through the checklists below. Further identification and explanation of the anomalies identified are provided following each section of the checklist, as needed.

The field sample and laboratory identification associations are summarized in Table 1. A summary of qualified sample results are presented in Table 2. Data are qualified per the definitions and reason codes presented in Attachment A.

In instances where multiple validation qualifiers were applied with an associated bias (J+ or J-), the final validation qualifier reflects the overall bias considering all qualifications. For example, if a sample was qualified with both a high (J+) and low bias (J-), the overall qualification was J with no affiliated bias.

Laboratory - Sample Delivery Groups:

Eurofins Environment Testing Little Rock, Arkansas (Eurofins) – 192-25235-1

Methods:

Total Metals (6020B), Volatile Organic Compounds (VOCs) (8260D and 8260D with selective ion monitoring [SIM]), Anions (Bromide, Chloride), (9056A) Total Organic Halides (9020B), Total Dissolved Solids (SM2540C), Total Organic Carbon (SM5310C)

Validation:

Stage 2A Validation

Guidance Documents:

United States Environmental Protection Agency (USEPA) National Functional Guidelines for Organic Superfund Methods Data Review (November 2020), *National Functional Guidelines for Inorganic Superfund Methods Data Review* (November 2020), laboratory quality control (QC) criteria, and method requirements, where applicable.

Overall Assessment of Data:

Although multiple results were reported for 1,1,2,2-tetrachloroethene, 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and 1,2,3-trichloropropane by Methods 8260D and 8260D SIM as noted in Section 4.0, the overall completeness of the data set was not impacted. The data are considered usable with the qualifications and clarifications applied through this validation process, and the overall assessment of data was acceptable and considered 100% complete. A summary of qualified sample results are presented in Table 2.

Data Validation Report

Project/Site: Albemarle Corporation/South Plant Sumps
Validating Chemist: Delaine Austin
Secondary Review Chemist: Jamie Herman

Event: 2SA 2025 Groundwater
Date: 11/04/2025
Date: 11/10/2025

1.0 Sample Documentation

Sample Documentation Criteria	Yes	No	NA
Were all samples documented correctly on the chain-of-custody (COC) and container labels?	X		
Were sample analyses completed per the COC?	X		
Were samples received within method required preservation requirements?	X		
Were samples extracted and analyzed within the method required holding times?	X		
Laboratory Case Narrative	Yes	No	NA
Were there narrative clarifications not identified within this validation report?		X ¹	

1. The laboratory noted the continuing calibration verification associated with 1,2-dibromo-3-chloropropane by Method 8260D SIM recovered above the upper control limits. As the associated samples were reported as non-detected for the affected analytes, data qualification was not necessary.

The laboratory noted a 10% breakthrough exceedance for sample Sump P-20251009 by Method 9020B. The associated detected result was qualified as estimated (J pj).

Data Validation Report

Project/Site: Albemarle Corporation/South Plant Sumps
Validating Chemist: Delaine Austin
Secondary Review Chemist: Jamie Herman

Event: 2SA 2025 Groundwater
Date: 11/04/2025
Date: 11/10/2025

2.0 Quality Control (QC) and Performance Checks

Stage 2A Validation Criteria			
Method Blank Criteria	Yes	No	NA
Was a method blank analyzed for each batch?	X		
Were method blank concentrations reported as non-detected for the target analytes?	X		
Laboratory Control Sample (LCS) Criteria	Yes	No	NA
Was an LCS reported with each preparation batch?	X		
Were LCS/LCSD recoveries and/or RPDs within laboratory control limits?	X		
Matrix Spike/Matrix Spike Duplicates (MS/MSD) Criteria	Yes	No	NA
Was an MS/MSD performed on a project specific sample?	X		
Parent Sample Identification	Method		
Sump-4-20251009	8260D		
Sump-12-20251009	8260D		
For concentrations <4x the spike concentration, were MS/MSD recoveries and RPDs within criteria?		X ¹	
Spike recovery limits and RPDs are not applicable when the parent sample concentration is ≥ 4x the spike added. The data is reported without qualification.			
Laboratory Duplicate Criteria (Inorganics)	Yes	No	NA
Was a laboratory duplicate performed on a project specific sample?		X	
If both the parent sample and duplicate values were >5xRL, was laboratory duplicate RPD within acceptance criteria of <20%?			X
If either the parent sample or duplicate value was <5xRL, was the absolute difference within acceptance criteria of <1xRL?			X
Surrogate Criteria (Organics)	Yes	No	NA
Were the surrogates within acceptance limits?		X ²	

1. The following matrix spikes were outside laboratory control limits:

Matrix Spike Identification	Method	Analyte	Recovery	Recovery (Limit)	RPD	RPD (Limit)
Sump-12-20251009	8260D	1,2-Dibromoethane	251/94	70-130	67	20
		1-Bromo-2-chloroethane	160/101	70-130	38	20
		1,2-Dichloroethane	224/69	70-130	68	20
		Bromochloromethane	154/83	70-130	46	20
		Dibromochloromethane	241/88	70-130	58	20
		Toluene	170/89	70-130	32	20

Qualification was not applicable for sample results reported as non-detected associated with high laboratory control spike recoveries. Dibromomethane in the MS/MSD associated with parent sample Sump-12-20251009 was analyzed at a dilution in analytical batch 40603; therefore, the associated MS/MSD was not evaluated.

The sample results associated with a high matrix recovery spike were qualified as (J+ m). The sample results associated with a low matrix recovery spike were qualified as (J- m). The sample results associated with a matrix spike/matrix spike duplicate RPDs were qualified as (J ld).

Qualified data are summarized and presented in Table 2.

Data Validation Report

Project/Site: Albemarle Corporation/South Plant Sumps
Validating Chemist: Delaine Austin
Secondary Review Chemist: Jamie Herman

Event: 2SA 2025 Groundwater
Date: 11/04/2025
Date: 11/10/2025

2. The following surrogate recoveries were outside control limits:

Sample Identification	Method	Surrogate	Recovery (Limit)
Sump-1-20251009 (1x)	8260D	4-Bromofluorobenzene	168 (80-120)
Sump-1-20251009 DUP (1x)	8260D	4-Bromofluorobenzene	184 (80-120)
Sump-11 – 20251009 (1x)	8260D	4-Bromofluorobenzene	164 (80-120)

The sample results reported as non-detect associated with surrogate recoveries above the upper control limit did not require qualification. The detected results associated with surrogate recoveries above the upper control limit were qualified as estimated (J+ s) to demonstrate the potential high bias. A summary of qualified sample results are presented in Table 2.

Data Validation Report

Project/Site: Albemarle Corporation/South Plant Sumps
Validating Chemist: Delaine Austin
Secondary Review Chemist: Jamie Herman

Event: 2SA 2025 Groundwater
Date: 11/04/2025
Date: 11/10/2025

3.0 Field QC Samples

Field QC Blank Verification Criteria		Yes	No	NA
Was a trip blank shipped with, and analyzed with the samples? (VOCs only)		X		
Were trip blank concentrations reported as non-detected for the target analytes?		X		
Were field and/or equipment blanks collected and analyzed? (Field blank VOCs only)		X		
Were field QC blank concentrations reported as non-detected for the target analytes?		X		
Field Duplicate Criteria		Yes	No	NA
Were field duplicate samples collected?		X		
Parent Sample	Field Duplicate Sample			
Sump-1-20251009	Sump-1-20251009 DUP			
Were parent sample/field duplicate RPDs $\leq 30\%$ for analytes that had concentrations $> 5x$ the RL?		X		
Were the differences between the parent sample/field duplicate $< 2x$ RL for analytes that had concentrations $< 5x$ the RL?		X		

Data Validation Report

Project/Site: Albemarle Corporation/South Plant Sumps
Validating Chemist: Delaine Austin
Secondary Review Chemist: Jamie Herman

Event: 2SA 2025 Groundwater
Date: 11/04/2025
Date: 11/10/2025

4.0 Sensitivity and Additional Qualification

Sensitivity Criteria	Yes	No	NA
Was the laboratory sensitivity consistent with project requirements?	X		
Did all analytes meet sensitivity requirements?		X ¹	
Additional Qualification Criteria	Yes	No	NA
Was professional judgment used to qualify data, if not addressed in Sections 1, 2, and 3?	X ²		
Trace level detections, results reported between the method detection limit (MDL) and the reporting limit (RL) were qualified as estimated (J lq).			X
Were multiple results reported?	X ³		
Completeness Criteria	Yes	No	NA
Were the reported results usable if qualified?	X		
Were the analyses requested performed, the correct analyte lists used, and correct sample preparation and analyses methods and units utilized?	X		

1. Several arsenic and lead results for total metals were reported as non-detect at elevated reporting limits. These results will need to be evaluated by the end user for meeting project objectives.
2. In instances where the sample results exceeded the calibration range, the associated result was qualified as estimated (J c).
3. Several analytes were reported by multiple methods (1,1,2,2-tetrachloroethene, 1,2-dibromoethane, 1,2-dibromo-3-chloropropane, and/or 1,2,3-trichloropropane by Methods 8260D and 8260D SIM), results were selected for reporting using the following criteria:
 - If both results were non-detect, the non-detect result with the lower reporting limit was selected.
 - If both results were reported as detected, the higher detected result was selected for reporting.
 - If one result was reported as non-detect and the other result was reported as detected, the detected result was selected for reporting.
 - If one result was qualified as unusable, the result that is considered usable was selected for reporting.

A summary of qualified sample results are presented in Table 2.

Table 1: Sample Summary and Laboratory Association

Sample Identification	Laboratory Identification	Sample Date	Sample Type	Analyses
SUMP-1-20251009	192-25235-1	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
Sump-1-20251009 Dup	192-25235-2	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
SUMP-2-20251009	192-25235-3	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
SUMP-3-20251009	192-25235-4	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
Sump-4-20251009	192-25235-5	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
SUMP-11-20251009	192-25235-6	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
SUMP-12-20251009	192-25235-7	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
Sump-13-20251009	192-25235-8	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A
Sump-P-20251009	192-25235-9	10/9/2025	Normal	8260D, 8260D SIM, 6020B, 9056A, SM 2540C, SM 5310C, 9020B
FB-20251009	192-25235-10	10/9/2025	Field Blank	8260D, 8260D SIM
TB-20251009	192-25235-11	10/9/2025	Trip Blank	8260D, 8260D SIM

Table 2. Summary of Qualified Data

Sample Identification	Laboratory Identification	Fraction	Method	Analyte	Result	Unit	Result Reportable	Qualifier	Reason Code
SUMP-1-20251009	192-25235-1	N	8260D	1,3-Dichloropropane	26	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D	Carbon disulfide	22	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D	Chloroform	46	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D	Tetrachloroethene	5.5	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D	Toluene	6.9	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D	Trichloroethene	13	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D	Vinyl chloride	21	ug/L	YES	J+	s
SUMP-1-20251009	192-25235-1	N	8260D-SIM	1,1,2,2-Tetrachloroethane	9.9	ug/L	YES	J	c
SUMP-1-20251009	192-25235-1	N	8260D-SIM	1,2-Dibromo-3-chloropropane	46	ug/L	YES	J	c
SUMP-1-20251009	192-25235-1	N	8260D-SIM	1,2-Dibromoethane	6400	ug/L	YES	J	c
Sump-1-20251009 Dup	192-25235-2	N	8260D	1,3-Dichloropropane	27	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D	Carbon disulfide	25	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D	Chloroform	46	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D	Tetrachloroethene	6.2	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D	Toluene	8	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D	Trichloroethene	15	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D	Vinyl chloride	21	ug/L	YES	J+	s
Sump-1-20251009 Dup	192-25235-2	N	8260D-SIM	1,1,2,2-Tetrachloroethane	9.9	ug/L	YES	J	c
Sump-1-20251009 Dup	192-25235-2	N	8260D-SIM	1,2-Dibromo-3-chloropropane	47	ug/L	YES	J	c
Sump-1-20251009 Dup	192-25235-2	N	8260D-SIM	1,2-Dibromoethane	6300	ug/L	YES	J	c
SUMP-2-20251009	192-25235-3	N	8260D-SIM	1,1,2,2-Tetrachloroethane	24	ug/L	YES	J	c
SUMP-2-20251009	192-25235-3	N	8260D-SIM	1,2-Dibromoethane	670	ug/L	YES	J	c
SUMP-3-20251009	192-25235-4	N	8260D-SIM	1,1,2,2-Tetrachloroethane	200	ug/L	YES	J	c
SUMP-3-20251009	192-25235-4	N	8260D-SIM	1,2,3-Trichloropropane	8.7	ug/L	YES	J	c
SUMP-3-20251009	192-25235-4	N	8260D-SIM	1,2-Dibromo-3-chloropropane	5.7	ug/L	YES	J	c
SUMP-11-20251009	192-25235-6	N	8260D	1,2,4-Trimethylbenzene	13	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	1,2-Dichloropropane	5	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	Benzene	32	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	Carbon tetrachloride	2.2	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	Chloroform	23	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	cis-1,2-Dichloroethene	9.2	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	Tetrachloroethene	22	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	Trichloroethene	34	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D	Vinyl chloride	15	ug/L	YES	J+	s
SUMP-11-20251009	192-25235-6	N	8260D-SIM	1,1,2,2-Tetrachloroethane	25	ug/L	YES	J	c
SUMP-11-20251009	192-25235-6	N	8260D-SIM	1,2,3-Trichloropropane	9.8	ug/L	YES	J	c
SUMP-11-20251009	192-25235-6	N	8260D-SIM	1,2-Dibromoethane	640	ug/L	YES	J	c
SUMP-12-20251009	192-25235-7	N	8260D	1,2-Dichloroethane	41	ug/L	YES	J	m,ld
SUMP-12-20251009	192-25235-7	N	8260D	1-Bromo-2-chloroethane	14	ug/L	YES	J+	m,ld

Table 2. Summary of Qualified Data

Sample Identification	Laboratory Identification	Fraction	Method	Analyte	Result	Unit	Result Reportable	Qualifier	Reason Code
SUMP-12-20251009	192-25235-7	N	8260D	Bromochloromethane	17	ug/L	YES	J+	m,ld
SUMP-12-20251009	192-25235-7	N	8260D	Dibromochloromethane	50	ug/L	YES	J+	m,ld
SUMP-12-20251009	192-25235-7	N	8260D	Toluene	64	ug/L	YES	J+	m,ld
SUMP-12-20251009	192-25235-7	N	8260D-SIM	1,2-Dibromoethane	95	ug/L	YES	J	c
Sump-P-20251009	192-25235-9	N	9020B	Total organic halogen	2300	ug/L	YES	J	pj

Attachment A

DATA VALIDATION QUALIFIER DEFINITIONS

DATA QUALIFIER DEFINITIONS

- U The analyte was analyzed for, but was not detected above the reported sample quantitation limit, or the sample result was considered not-detected due to associated blank contamination.
- J The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- J+ The result is an estimated quantity, but the result may be biased high.
- J- The result is an estimated quantity, but the result may be biased low.
- UJ The analyte was analyzed for, but was not detected. The reported sample quantitation limit is approximate and may be inaccurate or imprecise.
- R The data are unusable. The sample results are rejected due to serious deficiencies in meeting quality control (QC) criteria. The analyte may or may not be present in the sample.

REASON CODE DEFINITIONS

- be Equipment blank contamination
- bf Field blank contamination
- bl Laboratory blank contamination
- c Calibration issue
- cl Clean-up standard recovery
- cr Chromatographic resolution
- d Reporting limit raised due to chromatographic interference
- dt Dissolved result > total over limit
- fd Field duplicate imprecision
- g Chromatographic pattern match issue
- h Holding times
- i Internal standard areas
- ii Injection internal standard area or retention time exceedance
- k Estimated Maximum Possible Concentrations
- l LCS recoveries
- lc Labeled compound recovery
- ld Laboratory duplicate imprecision (matrix duplicate, MSD, LCSD)
- lq Level of quantitation/trace value
- m Matrix spike recovery
- nb Negative laboratory blank contamination
- p Chemical preservation issue
- pe Post Extraction Spike
- pj Professional Judgement
- q Quantitation issue
- r Dual column RPD
- rp Re-extraction precision issue [PAHs only]
- rt SIM ions not within + 2 seconds
- s Surrogate/IDA recovery
- sp Sample preparation issue
- su Evidence of ion suppression
- t Temperature Preservation Issue
- v compound identification issue
- y Serial dilution results
- z ICS results

Attachment D

Updated Financial Assurance

ALBEMARLE CORPORATION
SOUTH PLANT LANDFILL

CLOSURE COST ESTIMATE			
YEAR	ESTIMATED COST	INFLATION FACTOR	ADJUSTED CLOSURE COST
2020	\$1,540,635	NA	\$1,540,635
2021	\$1,540,635	1.013	\$1,560,663
2022	\$1,560,663	1.062	\$1,657,424
2023	\$1,657,424	1.065	\$1,765,157
2024	\$1,765,157	1.027	\$1,812,816
2025	\$1,812,816	1.025	\$1,858,136
2026	\$1,858,136	1.034	\$1,921,313

POST-CLOSURE CARE COST ESTIMATE			
YEAR	ESTIMATED COST	INFLATION FACTOR	ADJUSTED POST CLOSURE COST
2020	\$375,049	NA	\$375,049
2021	\$375,049	1.013	\$379,925
2022	\$379,925	1.062	\$403,480
2023	\$403,480	1.065	\$429,706
2024	\$429,706	1.027	\$441,308
2025	\$441,308	1.025	\$452,341
2026	\$452,341	1.034	\$467,721

TOTAL ESTIMATED CLOSURE COST (2026)	\$1,921,313
TOTAL ESTIMATED POST-CLOSURE CARE COST (2026)	\$467,721
TOTAL REQUIRED FINANCIAL ASSURANCE (2026)	\$2,389,033

ALBEMARLE CORPORATION

SOUTH PLANT LANDFILL

Implicit Price Deflator

The IPD for the U.S. gross national product is updated March 31 of each year. For reference, the annual inflation factor for recent years is shown as follows:

Year	GNP - Implicit Price Deflators (IPD) - Updated March 31 of each year		Inflation Factor
2019	2018 IPD = 102.953	2017 IPD = 100.708	1.023
2020	2019 IPD = 104.469	2018 IPD = 102.953	1.015
2021	2020 IPD = 106.200	2019 IPD = 104.469	1.017
2022	2021 IPD = 112.765	2020 IPD = 106.200	1.062
2023	2022 IPD = 120.002	2021 IPD = 112.765	1.065
2024	2023 IPD = 123.177	2022 IPD = 120.002	1.027
2025	2024 IPD = 126.359	2023 IPD = 123.177	1.025
2026	2025 IPD = 130.529	2024 IPD = 126.359	1.034

In 2024, the Bureau of Economic Analysis revised its indexing and set the baseline index at 100 for the year 2017.

Information in this table is obtained from the Federal Reserve Bank of St. Louis