

Exhibit 2C-3. Testing Requirements for Organic Toxic Pollutants Industry Categories*

INDUSTRY CATEGORY	GC/MS FRACTION†			Pesticide
	Volatile	Acid	Base/Neutral	
Adhesives and sealants	X	X	X	☐
Aluminum forming	X	X	X	☐
Auto and other laundries	X	X	X	X
Battery manufacturing	X	☐	X	☐
Coal mining	☐	☐	☐	☐
Coil coating	X	X	X	☐
Copper forming	X	X	X	☐
Electric and electronic compounds	X	X	X	X
Electroplating	X	X	X	☐
Explosives manufacturing	☐	X	X	☐
Foundries	X	X	X	☐
Gum and wood chemicals (all subparts except D and F)	X	X	☐	☐
Gum and wood chemicals, Subpart D (tall oil rosin)	X	X	X	☐
Gum and wood chemicals, Subpart F (rosin-based derivatives)	X	X	X	☐
Inorganic chemicals manufacturing	X	X	X	☐
Iron and steel manufacturing	X	X	X	☐
Leather tanning and finishing	X	X	X	☐
Mechanical products manufacturing	X	X	X	☐
Nonferrous metals manufacturing	X	X	X	X
Ore mining, Subpart B (base and precious metals)	☐	X	☐	☐
Organic chemicals manufacturing	X	X	X	X
Paint and ink formulation	X	X	X	☐
Pesticides	X	X	X	X
Petroleum refining	X	☐	☐	☐
Pharmaceutical preparations	X	X	X	☐
Photographic equipment and supplies	X	X	X	☐
Plastic and synthetic materials manufacturing	X	X	X	X
Plastic processing	X	☐	☐	☐
Printing and publishing	X	X	X	X
Pulp and paperboard mills	X	X	X	X
Rubber processing	X	X	X	☐
Soap and detergent manufacturing	X	X	X	☐
Steam electric power plants	X	X	☐	☐
Textile mills (except Subpart C, Greige Mills)	X	X	X	☐
Timber products processing	X	X	X	X

Best,



Shannon McClellan | Environmental Protection Specialist II

Division of Water Resources

William R. Snodgrass Tennessee Tower

312 Rosa L. Parks Avenue, 11th Floor

Nashville, Tennessee 37243

p. 615-532-0485 f. 615-532-0686

Shannon.McClellan@tn.gov

tn.gov/environment

We value your feedback! Please complete our [customer satisfaction survey](#).



January 30, 2023

Shannon McClellan
Division of Water Resources
William R. Snodgrass – Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102
Sent via email to: Water.Permits@tn.gov

RE: NPDES Renewal, Permit TN0000442 – Second Submittal

Dear Shannon,

Please find enclosed Forms TDEC CN1090, EPA Form 1, and EPA Form 2C for renewal of the above referenced permit. EPA Form 2C now contains additional sampling not included in the original application sent in December 2022.

If you have any questions regarding this renewal, please do not hesitate to contact me at (901) 861-8349, or darrell.richardson@aocresins.com

Sincerely,

A handwritten signature in blue ink, appearing to read "Darrell Richardson". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Darrell Richardson
EHS Coordinator
AOC TN Resins Plant

Attachments

EPA FORM 1

EPA Identification Number TND007037765		NPDES Permit Number TN0000442		Facility Name AOC, LLC		Form Approved 03/05/19 OMB No. 2040-0004	
Form 1 NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater GENERAL INFORMATION					
SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))							
Activities Requiring an NPDES Permit	1.1 Applicants <i>Not Required</i> to Submit Form 1						
	1.1.1 Is the facility a new or existing publicly owned treatment works ? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☒ No			1.1.2 Is the facility a new or existing treatment works treating domestic sewage ? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☒ No			
	1.2 Applicants <i>Required</i> to Submit Form 1						
	1.2.1 Is the facility a concentrated animal feeding operation or a concentrated aquatic animal production facility ? ☐ Yes → Complete Form 1 and Form 2B. ☒ No			1.2.2 Is the facility an existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater ? ☒ Yes → Complete Form 1 and Form 2C. ☐ No			
	1.2.3 Is the facility a new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge ? ☐ Yes → Complete Form 1 and Form 2D. ☒ No			1.2.4 Is the facility a new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater ? ☐ Yes → Complete Form 1 and Form 2E. ☒ No			
	1.2.5 Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater ? ☐ Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☒ No						
SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))							
Name, Mailing Address, and Location	2.1 Facility Name						
	AOC LLC						
	2.2 EPA Identification Number						
	TND007037765						
	2.3 Facility Contact						
	Name (first and last) Darrell Richardson		Title EHS Coordinator		Phone number (901) 861-8349		
	Email address darrell.richardson@aocresins.com						
2.4 Facility Mailing Address							
Street or P.O. box 860 Highway 57 E							
City or town Collierville		State TN		ZIP code 38017			

EPA Identification Number TND007037765		NPDES Permit Number TN0000442		Facility Name AOC, LLC		Form Approved 03/05/19 OMB No. 2040-0004	
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Name, Mailing Address, and Location Continued	2.5	Facility Location					
		Street, route number, or other specific identifier 860 Highway 57 E					
		County name Fayette			County code (if known)		
		City or town Collierville			State TN		ZIP code 38017

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))					
SIC and NAICS Codes	3.1	SIC Code(s)		Description (optional)	
		2821			
		3079			
	3.2	NAICS Code(s)		Description (optional)	
		325211			

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))			
Operator Information	4.1	Name of Operator	
	AOC LLC		
	4.2	Is the name you listed in Item 4.1 also the owner? ☒ Yes ☐ No	
	4.3	Operator Status	
Operator Information Continued	4.5	☐ Public—federal ☐ Public—state ☐ Other public (specify) _____ ☒ Private ☐ Other (specify) _____	
		Phone Number of Operator	
		(901) 854-2890	
		Operator Address	
Street or P.O. Box 860 Highway 57 E			
City or town Collierville		State TN	ZIP code 38017
Email address of operator			

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))	
Indian Land	5.1 Is the facility located on Indian Land? ☐ Yes ☒ No

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits	6.1	Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each)		
		☒ NPDES (discharges to surface water) TN0000442	☒ RCRA (hazardous wastes) TND007037765	☐ UIC (underground injection of fluids)
		☒ PSD (air emissions) 470098	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
		☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) ☒ Yes ☐ No ☐ CAFO—Not Applicable (See requirements in Form 2B.)
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SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business	8.1	Describe the nature of your business. Manufacture of Polyester Resins and Pigment Dispersions
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SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures	9.1	Does your facility use cooling water? ☒ Yes ☐ No → SKIP to Item 10.1.
	9.2	Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.) Onsite water wells.

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests	10.1	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.) <table style="width: 100%; margin-top: 10px;"> <tr> <td style="width: 50%; vertical-align: top;"> ☐ Fundamentally different factors (CWA Section 301(n)) </td> <td style="width: 50%; vertical-align: top;"> ☐ Water quality related effluent limitations (CWA Section 302(b)(2)) </td> </tr> <tr> <td style="vertical-align: top;"> ☐ Non-conventional pollutants (CWA Section 301(c) and (g)) </td> <td style="vertical-align: top;"> ☐ Thermal discharges (CWA Section 316(a)) </td> </tr> <tr> <td colspan="2" style="vertical-align: top;"> ☒ Not applicable </td> </tr> </table>	☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))	☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))	☒ Not applicable	
☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))							
☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))							
☒ Not applicable								

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))			
Checklist and Certification Statement	11.1	In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
	☒	Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
	☒	Section 2: Name, Mailing Address, and Location	☐ w/ attachments
	☒	Section 3: SIC Codes	☐ w/ attachments
	☒	Section 4: Operator Information	☐ w/ attachments
	☒	Section 5: Indian Land	☐ w/ attachments
	☒	Section 6: Existing Environmental Permits	☐ w/ attachments
	☒	Section 7: Map	☒ w/ topographic map ☐ w/ additional attachments
	☒	Section 8: Nature of Business	☐ w/ attachments
	☒	Section 9: Cooling Water Intake Structures	☐ w/ attachments
	☒	Section 10: Variance Requests	☐ w/ attachments
	☒	Section 11: Checklist and Certification Statement	☐ w/ attachments
	11.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
		Name (print or type first and last name) SKIP SWANNER	Official title PLANT MANAGER
	Signature Skip Swanner	Date signed 1/31/23	

FORM CN1090

PERMIT CONTACT INFORMATION



STATE OF TENNESSEE
DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF WATER RESOURCES
Water-Based Systems
William R. Snodgrass - Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, TN 37243-1102

PERMIT CONTACT INFORMATION

Please complete all sections. If one person serves multiple functions, please repeat this information in each section.

PERMIT NUMBER: **TN0000442**

DATE: **12/21/22**

PERMITTED FACILITY: **AOC Resins**

COUNTY: **Fayette**

OFFICIAL PERMIT CONTACT:

(The permit signatory authority, e.g. responsible corporate officer, principle executive officer or ranking elected official)

Official Contact: Darrell Richardson	Title or Position: EHS Coordinator		
Mailing Address: 860 Highway 57 E	City: Collierville	State: TN	Zip: 38017
Phone number(s): 901-861-8349	E-mail: darrell.richardson@aocresins.com		

PERMIT BILLING ADDRESS (where invoices should be sent):

Billing Contact: Pam Perry	Title or Position: Controller		
Mailing Address: 860 Highway 57 E	City: Collierville	State: TN	Zip: 38017
Phone number(s):	E-mail: pam.perry@aocresins.com		

FACILITY LOCATION (actual location of permit site and local contact for site activity):

Facility Location Contact: Darrell Richardson	Title or Position: EHS Coordinator		
Facility Location (physical street address): 860 Highway 57 E	City: Collierville	State: TN	Zip: 38017
Phone number(s): 901-861-8349	E-mail: darrell.richardson@aocresins.com		

Alternate Contact (if desired):	Title or Position:		
Mailing Address:	City:	State:	Zip:
Phone number(s):	E-mail:		

FACILITY REPORTING (Discharge Monitoring Report (DMR) or other reporting):

Cognizant Official authorized for permit reporting: Darrell Richardson	Title or Position: EHS Coordinator		
Mailing Address: 860 Highway 57 E	City: Collierville	State: TN	Zip: 38017
Phone number(s): 901-861-8349	E-mail: darrell.richardson@aocresins.com		
Fax number for reporting:	Does the facility have interest in starting electronic DMR reporting? Yes No already participate		

EPA FORM 2C

OUTFALL 001, followed by:

OUTFALL 01A

EPA Identification Number TND007037765		NPDES Permit Number TN0000442		Facility Name AOC, LLC		Form Approved 03/05/19 OMB No. 2040-0004	
Form 2C NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS					
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))							
Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.					
	Outfall Number	Receiving Water Name	Latitude			Longitude	
	001	Unnamed stream at mile 2.1	35.00°	2.00'	30.00"	89.00° 37.00' 30.00"	
	006	Combines with Outfall 001	35.00°	2.00'	30.00"	89.00° 37.00' 30.00"	
	01A	Combines with Outfall 001	35.00°	2.00'	30.00"	89.00° 37.00' 30.00"	
SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))							
Line Drawing	2.1	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) ☒ Yes ☐ No					
SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))							
Average Flows and Treatment	3.1	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.					
	Outfall Number 001						
	Operations Contributing to Flow						
	Operation					Average Flow	
	Steam Condensate, Non-Contact Cooling Water, Stormwater					0.4278 mgd	
						mgd	
						mgd	
						mgd	
	Treatment Units						
	Description (include size, flow rate through each treatment unit, retention time, etc.)					Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
	Not Applicable					4-A	Not Applicable

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC
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Form Approved 03/05/19
OMB No. 2040-0004

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? ☐ Yes ☒ No → SKIP to Section 5.						
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.						
				Frequency		Flow Rate		
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	Duration
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? ☒ Yes ☐ No → SKIP to Section 6.		
	5.2	Provide the following information on applicable ELGs.		
		ELG Category	ELG Subcategory	Regulatory Citation
		Organic Chemicals, Plastics, and Solvents		40 CFR 414
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? ☐ Yes ☒ No → SKIP to Section 6.		
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.		
		Outfall Number	Operation, Product, or Material	Quantity per Day

SECTION 6. IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements	6.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?			
	☐ Yes ☒ No → SKIP to Item 6.3.				
	6.2	Briefly identify each applicable project in the table below.			
	Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
				Required	Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? <i>(optional item)</i>			
☐ Yes ☐ No ☒ Not applicable					

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.				
	Table A. Conventional and Non-Conventional Pollutants				
	7.1	Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls?			
	☐ Yes ☒ No → SKIP to Item 7.3.				
	7.2	If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.			
	Outfall Number _____ Outfall Number _____ Outfall Number _____				
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?			
	☒ Yes ☐ No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.				
	Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants				
	7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)			
☒ Yes ☐ No → SKIP to Item 7.8.					
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?				
☒ Yes ☐ No					
7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.				
Primary Industry Category		Required GC/MS Fraction(s) (Check applicable boxes.)			
Plastics and synthetic materials manufacturing		☒ Volatile	☒ Acid	☒ Base/Neutral	☒ Pesticide
		☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
		☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Form Approved 03/05/19 OMB No. 2040-0004
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Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☒ Yes ☐ No	
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☒ Yes ☐ No	
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☒ Yes ☐ No	
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☒ No	
	7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☒ Yes ☐ No	
	Table C. Certain Conventional and Non-Conventional Pollutants		
	7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☒ Yes ☐ No	
	7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☒ Yes ☐ No	
	Table D. Certain Hazardous Substances and Asbestos		
	7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☒ Yes ☐ No	
	7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? ☒ Yes ☐ No	
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)		
	7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes → Complete Table E. ☒ No → SKIP to Section 8.	
	7.17	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? ☐ Yes ☐ No	
SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))			
Used or Manufactured Toxics	8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☒ No → SKIP to Section 9.	
	8.2	List the pollutants below.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? ☐ Yes ☒ No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
	Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
			☐ Yes ☐ No	
			☐ Yes ☐ No	
		☐ Yes ☐ No		

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? ☒ Yes ☐ No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
	Name of laboratory/firm	Waypoint Analytical		
	Laboratory address	2790 Whitten Rd. Memphis, TN 38133		
	Phone number	(901) 213-2400		
	Pollutant(s) analyzed	Total Organic Carbon, Chemical Oxygen Demand, & Ammonia (as N). VOCs, SVOCs, Pesticides, PCB's, Metals, Total Cyanide, and Total Phenols.		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information	11.1	Has the NPDES permitting authority requested additional information? ☐ Yes ☒ No → SKIP to Section 12.		
	11.2	List the information requested and attach it to this application.		
	1.	4.		
	2.	5.		
	3.	6.		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement	12.1	In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.	
		Column 1	Column 2
	☒	Section 1: Outfall Location	☒ w/ attachments
	☒	Section 2: Line Drawing	☒ w/ line drawing ☐ w/ additional attachments
	☒	Section 3: Average Flows and Treatment	☐ w/ attachments ☐ w/ list of each user of privately owned treatment works
	☐	Section 4: Intermittent Flows	☐ w/ attachments
	☐	Section 5: Production	☐ w/ attachments
	☐	Section 6: Improvements	☐ w/ attachments ☐ w/ optional additional sheets describing any additional pollution control plans
	☒	Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information ☐ w/ small business exemption request ☐ w/ Table A ☐ w/ explanation for identical outfalls ☐ w/ Table C ☐ w/ other attachments ☐ w/ Table E ☐ w/ Table B ☐ w/ Table D ☒ w/ analytical results as an attachment
	☐	Section 8: Used or Manufactured Toxics	☐ w/ attachments
	☐	Section 9: Biological Toxicity Tests	☐ w/ attachments
	☒	Section 10: Contract Analyses	☒ w/ attachments
	☐	Section 11: Additional Information	☐ w/ attachments
	☒	Section 12: Checklist and Certification Statement	☐ w/ attachments
	12.2	Certification Statement <i>I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.</i>	
	Name (print or type first and last name) Skip Swanner	Official title PLANT MANAGER	
	Signature Skip Swanner	Date signed 1/31/23	

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	☐	Concentration	mg/L	10.43		7.73	12	
		Mass						
2. Chemical oxygen demand (COD)	☐	Concentration	mg/L	<15.0			1	
		Mass						
3. Total organic carbon (TOC)	☐	Concentration	mg/L	<1.00			1	
		Mass						
4. Total suspended solids (TSS)	☐	Concentration	mg/L	3.07		1.49	52	
		Mass						
5. Ammonia (as N)	☐	Concentration	mg/L	<0.100			1	
		Mass						
6. Flow	☐	Rate	gpd	2,005,000		427,800	24	
7. Temperature	☐	winter	°C	°C	ambient	ambient		
		summer	°C	°C	ambient	ambient		
8. pH	☐	minimum	Standard units	s.u.	6.3	6.6	104	
		maximum	Standard units	s.u.	7.2	6.9	104	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
☐	Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols											
1.1 Antimony, total (7440-36-0)	☒	☐	☐	Concentration Mass	mg/L	<0.0072		1			
1.2 Arsenic, total (7440-38-2)	☒	☐	☐	Concentration Mass	mg/L	<0.0055		1			
1.3 Beryllium, total (7440-41-7)	☒	☐	☐	Concentration Mass	mg/L	<0.0007		1			
1.4 Cadmium, total (7440-43-9)	☒	☐	☐	Concentration Mass	mg/L	<0.0003		1			
1.5 Chromium, total (7440-47-3)	☒	☐	☐	Concentration Mass	mg/L	<0.0014		1			
1.6 Copper, total (7440-50-8)	☒	☐	☐	Concentration Mass	mg/L	0.0068		1			
1.7 Lead, total (7439-92-1)	☒	☐	☐	Concentration Mass	mg/L	<0.0029		1			
1.8 Mercury, total (7439-97-6)	☒	☐	☐	Concentration Mass	mg/L	<0.00020		1			
1.9 Nickel, total (7440-02-0)	☒	☐	☐	Concentration Mass	mg/L	0.0013		1			
1.10 Selenium, total (7782-49-2)	☒	☐	☐	Concentration Mass	mg/L	<0.0098		1			
1.11 Silver, total (7440-22-4)	☒	☐	☐	Concentration Mass	mg/L	<0.0013		1			

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☒	☐	☐	Concentration	mg/L	<0.0080				1	
					Mass							
1.13	Zinc, total (7440-66-6)	☒	☐	☐	Concentration	mg/L	0.0091				1	
					Mass							
1.14	Cyanide, total (57-12-5)	☒	☐	☐	Concentration	mg/L	<0.002				1	
					Mass							
1.15	Phenols, total	☒	☐	☐	Concentration	mg/L	<0.050				1	
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☒	☐	☐	Concentration	ppb	<20.0				1	
					Mass							
2.2	Acrylonitrile (107-13-1)	☒	☐	☐	Concentration	ppb	<20.0				1	
					Mass							
2.3	Benzene (71-43-2)	☒	☐	☐	Concentration	ppb	<1.00				1	
					Mass							
2.4	Bromoform (75-25-2)	☒	☐	☐	Concentration	ppb	<1.00				1	
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☒	☐	☐	Concentration	ppb	<1.00				1	
					Mass							
2.6	Chlorobenzene (108-90-7)	☒	☐	☐	Concentration	ppb	<1.00				1	
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☒	☐	☐	Concentration	ppb	<1.00				1	
					Mass							
2.8	Chloroethane (75-00-3)	☒	☐	☐	Concentration	ppb	<1.00				1	
					Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
2.10	Chloroform (67-66-3)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.17	Ethylbenzene (100-41-4)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.18	Methyl bromide (74-83-9)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							
2.19	Methyl chloride (74-87-3)	☒	☐	☐	Concentration	ppb	<10.0			1		
					Mass							
2.20	Methylene chloride (75-09-2)	☒	☐	☐	Concentration	ppb	<10.0			1		
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☒	☐	☐	Concentration	ppb	<1.00			1		
					Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☒	☐	☐	Concentration ppb	<1.00			1		
					Mass						
2.23	Toluene (108-88-3)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
2.24	1,2-trans-dichloroethylene (156-60-5)	☒	☐	☐	Concentration ppb	<1.00			1		
					Mass						
2.25	1,1,1-trichloroethane (71-55-6)	☒	☐	☐	Concentration ppb	<1.00			1		
					Mass						
2.26	1,1,2-trichloroethane (79-00-5)	☒	☐	☐	Concentration ppb	<1.00			1		
					Mass						
2.27	Trichloroethylene (79-01-6)	☒	☐	☐	Concentration ppb	<1.00			1		
					Mass						
2.28	Vinyl chloride (75-01-4)	☒	☐	☐	Concentration ppb	<1.00			1		
					Mass						
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)											
3.1	2-chlorophenol (95-57-8)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.2	2,4-dichlorophenol (120-83-2)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.3	2,4-dimethylphenol (105-67-9)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.4	4,6-dinitro-o-cresol (534-52-1)	☒	☐	☐	Concentration ppb	<10.0			1		
					Mass						
3.5	2,4-dinitrophenol (51-28-5)	☒	☐	☐	Concentration ppb	<20.0			1		
					Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.7	4-nitrophenol (100-02-7)	☒	☐	☐	Concentration ppb	<10.0			1		
					Mass						
3.8	p-chloro-m-cresol (59-50-7)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.9	Pentachlorophenol (87-86-5)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.10	Phenol (108-95-2)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
3.11	2,4,6-trichlorophenol (88-05-2)	☒	☐	☐	Concentration ppb	<5.00			1		
					Mass						
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base/Neutral Compounds)											
4.1	Acenaphthene (83-32-9)	☒	☐	☐	Concentration ppb	<2.00			1		
					Mass						
4.2	Acenaphthylene (208-96-8)	☒	☐	☐	Concentration ppb	<2.00			1		
					Mass						
4.3	Anthracene (120-12-7)	☒	☐	☐	Concentration ppb	<2.00			1		
					Mass						
4.4	Benzidine (92-87-5)	☒	☐	☐	Concentration ppb	<20.0			1		
					Mass						
4.5	Benzo (a) anthracene (56-55-3)	☒	☐	☐	Concentration ppb	<2.00			1		
					Mass						
4.6	Benzo (a) pyrene (50-32-8)	☒	☐	☐	Concentration ppb	<2.00			1		
					Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☒	☐	☐	Concentration	ppb	<10.0			1		
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.18	Chrysene (218-01-9)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹													
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.20	1,2-dichlorobenzene (95-50-1)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.21	1,3-dichlorobenzene (541-73-1)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.22	1,4-dichlorobenzene (106-46-7)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.23	3,3-dichlorobenzidine (91-94-1)	☒	☐	☐	Concentration	ppb	<10.0				1		
					Mass								
4.24	Diethyl phthalate (84-66-2)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.25	Dimethyl phthalate (131-11-3)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.26	Di-n-butyl phthalate (84-74-2)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.27	2,4-dinitrotoluene (121-14-2)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.28	2,6-dinitrotoluene (606-20-2)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.29	Di-n-octyl phthalate (117-84-0)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☒	☐	☐	Concentration	ppb	<5.00				1		
					Mass								
4.31	Fluoranthene (206-44-0)	☒	☐	☐	Concentration	ppb	<2.00				1		
					Mass								
4.32	Fluorene (86-73-7)	☒	☐	☐	Concentration	ppb	<2.00				1		
					Mass								

EPA Identification Number TND007037765	NPDES Permit Number TND0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.36	Hexachloroethane (67-72-1)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.38	Isophorone (78-59-1)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.39	Naphthalene (91-20-3)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.40	Nitrobenzene (98-95-3)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☒	☐	☐	Concentration	ppb	<5.00			1		
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☒	☐	☐	Concentration	ppb	<10.0			1		
					Mass							
4.44	Phenanthrene (85-01-8)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							
4.45	Pyrene (129-00-0)	☒	☐	☐	Concentration	ppb	<2.00			1		
					Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	☒	☐	☐	Concentration Mass	ppb	<5.00			1		
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.2	α-BHC (319-84-6)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.3	β-BHC (319-85-7)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.4	γ-BHC (58-89-9)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.5	δ-BHC (319-86-8)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.6	Chlordane (57-74-9)	☒	☐	☐	Concentration Mass	ppb	<0.200			1		
5.7	4,4'-DDT (50-29-3)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.8	4,4'-DDE (72-55-9)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.9	4,4'-DDD (72-54-8)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.10	Dieldrin (60-57-1)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		
5.11	α-endosulfan (115-29-7)	☒	☐	☐	Concentration Mass	ppb	<0.0400			1		

EPA Identification Number TND007037765	NPDES Permit Number TND0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☒	☐	☐	Concentration	ppb	<0.0400			1		
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☒	☐	☐	Concentration	ppb	<0.0400			1		
					Mass							
5.14	Endrin (72-20-8)	☒	☐	☐	Concentration	ppb	<0.0400			1		
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☒	☐	☐	Concentration	ppb	<0.0400			1		
					Mass							
5.16	Heptachlor (76-44-8)	☒	☐	☐	Concentration	ppb	<0.0400			1		
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☒	☐	☐	Concentration	ppb	<0.0400			1		
					Mass							
5.18	PCB-1242 (53469-21-9)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							
5.19	PCB-1254 (11097-69-1)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							
5.20	PCB-1221 (11104-28-2)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							
5.21	PCB-1232 (11141-16-5)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							
5.22	PCB-1248 (12672-29-6)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							
5.23	PCB-1260 (11096-82-5)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							
5.24	PCB-1016 (12674-11-2)	☒	☐	☐	Concentration	ppb	<0.200			1		
					Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☒	☐	☐	Concentration	ppb	<0.300			1		
					Mass							

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vii))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
☒ Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.									
1. Bromide (24959-67-9)	☐	☐	Concentration						
			Mass						
2. Chlorine, total residual	☐	☐	Concentration						
			Mass						
3. Color	☐	☐	Concentration						
			Mass						
4. Fecal coliform	☐	☐	Concentration						
			Mass						
5. Fluoride (16984-48-8)	☐	☐	Concentration						
			Mass						
6. Nitrate-nitrite	☐	☐	Concentration						
			Mass						
7. Nitrogen, total organic (as N)	☐	☐	Concentration						
			Mass						
8. Oil and grease	☐	☐	Concentration						
			Mass						
9. Phosphorus (as P), total (7723-14-0)	☐	☐	Concentration						
			Mass						
10. Sulfate (as SO ₄) (14808-79-8)	☐	☐	Concentration						
			Mass						
11. Sulfide (as S)	☐	☐	Concentration						
			Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	☐	☐	Concentration						
				Mass						
13.	Surfactants	☐	☐	Concentration						
				Mass						
14.	Aluminum, total (7429-90-5)	☐	☐	Concentration						
				Mass						
15.	Barium, total (7440-39-3)	☐	☐	Concentration						
				Mass						
16.	Boron, total (7440-42-8)	☐	☐	Concentration						
				Mass						
17.	Cobalt, total (7440-48-4)	☐	☐	Concentration						
				Mass						
18.	Iron, total (7439-89-6)	☐	☐	Concentration						
				Mass						
19.	Magnesium, total (7439-95-4)	☐	☐	Concentration						
				Mass						
20.	Molybdenum, total (7439-98-7)	☐	☐	Concentration						
				Mass						
21.	Manganese, total (7439-96-5)	☐	☐	Concentration						
				Mass						
22.	Tin, total (7440-31-5)	☐	☐	Concentration						
				Mass						
23.	Titanium, total (7440-32-6)	☐	☐	Concentration						
				Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☐	Concentration						
			Mass						
Beta, total	☐	☐	Concentration						
			Mass						
Radium, total	☐	☐	Concentration						
			Mass						
Radium 226, total	☐	☐	Concentration						
			Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☒		
2.	Acetaldehyde	☐	☒		
3.	Allyl alcohol	☐	☒		
4.	Allyl chloride	☐	☒		
5.	Amyl acetate	☐	☒		
6.	Aniline	☐	☒		
7.	Benzonitrile	☐	☒		
8.	Benzyl chloride	☐	☒		
9.	Butyl acetate	☐	☒		
10.	Butylamine	☐	☒		
11.	Captan	☐	☒		
12.	Carbaryl	☐	☒		
13.	Carbofuran	☐	☒		
14.	Carbon disulfide	☐	☒		
15.	Chlorpyrifos	☐	☒		
16.	Coumaphos	☐	☒		
17.	Cresol	☐	☒		
18.	Crotonaldehyde	☐	☒		
19.	Cyclohexane	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21.	Diazinon	☐	☒		
22.	Dicamba	☐	☒		
23.	Dichlobenil	☐	☒		
24.	Dichlone	☐	☒		
25.	2,2-dichloropropionic acid	☐	☒		
26.	Dichlorvos	☐	☒		
27.	Diethyl amine	☐	☒		
28.	Dimethyl amine	☐	☒		
29.	Dinitrobenzene	☐	☒		
30.	Diquat	☐	☒		
31.	Disulfoton	☐	☒		
32.	Diuron	☐	☒		
33.	Epichlorohydrin	☐	☒		
34.	Ethion	☐	☒		
35.	Ethylene diamine	☐	☒		
36.	Ethylene dibromide	☐	☒		
37.	Formaldehyde	☐	☒		
38.	Furfural	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☒		
40.	Isoprene	☐	☒		
41.	Isopropanolamine	☐	☒		
42.	Kelthane	☐	☒		
43.	Kepone	☐	☒		
44.	Malathion	☐	☒		
45.	Mercaptodimethur	☐	☒		
46.	Methoxychlor	☐	☒		
47.	Methyl mercaptan	☐	☒		
48.	Methyl methacrylate	☐	☒		
49.	Methyl parathion	☐	☒		
50.	Mevinphos	☐	☒		
51.	Mexacarbate	☐	☒		
52.	Monoethyl amine	☐	☒		
53.	Monomethyl amine	☐	☒		
54.	Naled	☐	☒		
55.	Naphthenic acid	☐	☒		
56.	Nitrotoluene	☐	☒		
57.	Parathion	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))'

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☒		
59.	Phosgene	☐	☒		
60.	Propargite	☐	☒		
61.	Propylene oxide	☐	☒		
62.	Pyrethrins	☐	☒		
63.	Quinoline	☐	☒		
64.	Resorcinol	☐	☒		
65.	Strontium	☐	☒		
66.	Strychnine	☐	☒		
67.	Styrene	☐	☒		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☒		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71.	Trichlorofon	☐	☒		
72.	Triethanolamine	☐	☒		
73.	Triethylamine	☐	☒		
74.	Trimethylamine	☐	☒		
75.	Uranium	☐	☒		
76.	Vanadium	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) ¹					
	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☒		
78.	Xylene	☐	☒		
79.	Xylenol	☐	☒		
80.	Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))¹

Pollutant	Waiver Requested (if applicable)	Units (specify)	Effluent				Intake (Optional)	
			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
☐ Check here if you have applied to your NPDES permitting authority for a waiver for <i>all</i> of the pollutants listed on this table for the noted outfall.								
1. Biochemical oxygen demand (BOD ₅)	☐	Concentration	mg/L	<12			2	
		Mass						
2. Chemical oxygen demand (COD)	☐	Concentration						
		Mass						
3. Total organic carbon (TOC)	☐	Concentration						
		Mass						
4. Total suspended solids (TSS)	☐	Concentration	mg/L	1020			2	
		Mass						
5. Ammonia (as N)	☐	Concentration						
		Mass						
6. Flow	☐	Rate						
7. Temperature (winter)	☐	°C	°C					
		°C	°C					
8. pH (minimum)	☐	Standard units	s.u.					
		Standard units	s.u.					

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
☐ Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.										
Section 1. Toxic Metals, Cyanide, and Total Phenols										
1.1 Antimony, total (7440-36-0)	☐	☐	☐	Concentration						
				Mass						
1.2 Arsenic, total (7440-38-2)	☐	☐	☐	Concentration						
				Mass						
1.3 Beryllium, total (7440-41-7)	☐	☐	☐	Concentration						
				Mass						
1.4 Cadmium, total (7440-43-9)	☐	☐	☐	Concentration						
				Mass						
1.5 Chromium, total (7440-47-3)	☐	☐	☐	Concentration	mg/L	<0.001		2		
				Mass						
1.6 Copper, total (7440-50-8)	☐	☐	☐	Concentration	mg/L	0.012		2		
				Mass						
1.7 Lead, total (7439-92-1)	☐	☐	☐	Concentration	mg/L	<0.003		2		
				Mass						
1.8 Mercury, total (7439-97-6)	☐	☐	☐	Concentration						
				Mass						
1.9 Nickel, total (7440-02-0)	☐	☐	☐	Concentration	mg/L	0.004		2		
				Mass						
1.10 Selenium, total (7782-49-2)	☐	☐	☐	Concentration						
				Mass						
1.11 Silver, total (7440-22-4)	☐	☐	☐	Concentration						
				Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)	☐	☐	☐	Concentration Mass						
1.13	Zinc, total (7440-66-6)	☐	☐	☐	Concentration Mass	mg/L 0.066			2		
1.14	Cyanide, total (57-12-5)	☐	☐	☐	Concentration Mass	mg/L <0.003			2		
1.15	Phenols, total	☐	☐	☐	Concentration Mass						
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)											
2.1	Acrolein (107-02-8)	☐	☐	☐	Concentration Mass						
2.2	Acrylonitrile (107-13-1)	☐	☐	☐	Concentration Mass	mg/L <0.0028			2		
2.3	Benzene (71-43-2)	☐	☐	☐	Concentration Mass	mg/L 0.0008			2		
2.4	Bromoform (75-25-2)	☐	☐	☐	Concentration Mass						
2.5	Carbon tetrachloride (56-23-5)	☐	☐	☐	Concentration Mass	mg/L <0.0008			2		
2.6	Chlorobenzene (108-90-7)	☐	☐	☐	Concentration Mass	mg/L <0.0008			2		
2.7	Chlorodibromomethane (124-48-1)	☐	☐	☐	Concentration Mass						
2.8	Chloroethane (75-00-3)	☐	☐	☐	Concentration Mass	mg/L <0.0003			2		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)	☐	☐	☐	Concentration Mass						
2.10	Chloroform (67-66-3)	☐	☐	☐	Concentration mg/L Mass	<0.0005			2		
2.11	Dichlorobromomethane (75-27-4)	☐	☐	☐	Concentration Mass						
2.12	1,1-dichloroethane (75-34-3)	☐	☐	☐	Concentration mg/L Mass	<0.0004			2		
2.13	1,2-dichloroethane (107-06-2)	☐	☐	☐	Concentration mg/L Mass	<0.0003			2		
2.14	1,1-dichloroethylene (75-35-4)	☐	☐	☐	Concentration mg/L Mass	<0.0004			2		
2.15	1,2-dichloropropane (78-87-5)	☐	☐	☐	Concentration mg/L Mass	<0.0003			2		
2.16	1,3-dichloropropylene (542-75-6)	☐	☐	☐	Concentration Mass						
2.17	Ethylbenzene (100-41-4)	☐	☐	☐	Concentration mg/L Mass	0.218			2		
2.18	Methyl bromide (74-83-9)	☐	☐	☐	Concentration Mass						
2.19	Methyl chloride (74-87-3)	☐	☐	☐	Concentration Mass						
2.20	Methylene chloride (75-09-2)	☐	☐	☐	Concentration mg/L Mass	<0.0021			2		
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☐	Concentration Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	☐	☐	☐	Concentration mg/L	<0.0006			2		
					Mass						
2.23	Toluene (108-88-3)	☐	☐	☐	Concentration mg/L	<0.0011			2		
					Mass						
2.24	1,2-trans-dichloroethylene (156-60-5)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
2.25	1,1,1-trichloroethane (71-55-6)	☐	☐	☐	Concentration mg/L	<0.0006			2		
					Mass						
2.26	1,1,2-trichloroethane (79-00-5)	☐	☐	☐	Concentration mg/L	<0.0008			2		
					Mass						
2.27	Trichloroethylene (79-01-6)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
2.28	Vinyl chloride (75-01-4)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)											
3.1	2-chlorophenol (95-57-8)	☐	☐	☐	Concentration						
					Mass						
3.2	2,4-dichlorophenol (120-83-2)	☐	☐	☐	Concentration						
					Mass						
3.3	2,4-dimethylphenol (105-67-9)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
3.4	4,6-dinitro-o-cresol (534-52-1)	☐	☐	☐	Concentration mg/L	<0.002			2		
					Mass						
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☐	Concentration mg/L	<0.002			2		
					Mass						

EPA Identification Number TN0007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹													
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)		
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
3.6	2-nitrophenol (88-75-5)	☐	☐	☐	Concentration	mg/L	<0.0004				2		
					Mass								
3.7	4-nitrophenol (100-02-7)	☐	☐	☐	Concentration	mg/L	<0.0006				2		
					Mass								
3.8	p-chloro-m-cresol (59-50-7)	☐	☐	☐	Concentration								
					Mass								
3.9	Pentachlorophenol (87-86-5)	☐	☐	☐	Concentration								
					Mass								
3.10	Phenol (108-95-2)	☐	☐	☐	Concentration	mg/L	<0.0002				2		
					Mass								
3.11	2,4,6-trichlorophenol (88-05-2)	☐	☐	☐	Concentration								
					Mass								
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base/Neutral Compounds)													
4.1	Acenaphthene (83-32-9)	☐	☐	☐	Concentration	mg/L	<0.0002				2		
					Mass								
4.2	Acenaphthylene (208-96-8)	☐	☐	☐	Concentration	mg/L	<0.0002				2		
					Mass								
4.3	Anthracene (120-12-7)	☐	☐	☐	Concentration	mg/L	<0.0005				2		
					Mass								
4.4	Benzidine (92-87-5)	☐	☐	☐	Concentration								
					Mass								
4.5	Benzo (a) anthracene (56-55-3)	☐	☐	☐	Concentration	mg/L	<0.0002				2		
					Mass								
4.6	Benzo (a) pyrene (50-32-8)	☐	☐	☐	Concentration	mg/L	<0.0008				2		
					Mass								

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)	☐	☐	☐	Concentration mg/L	<0.0005			2		
					Mass						
4.8	Benzo (ghi) perylene (191-24-2)	☐	☐	☐	Concentration						
					Mass						
4.9	Benzo (k) fluoranthene (207-08-9)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☐	☐	Concentration						
					Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☐	☐	Concentration						
					Mass						
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☐	☐	Concentration						
					Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)	☐	☐	☐	Concentration						
					Mass						
4.15	Butyl benzyl phthalate (85-68-7)	☐	☐	☐	Concentration						
					Mass						
4.16	2-chloronaphthalene (91-58-7)	☐	☐	☐	Concentration						
					Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☐	☐	Concentration						
					Mass						
4.18	Chrysene (218-01-9)	☐	☐	☐	Concentration mg/L	<0.0003			2		
					Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☐	☐	Concentration						
					Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)	☐	☐	☐	Concentration Mass						
4.21	1,3-dichlorobenzene (541-73-1)	☐	☐	☐	Concentration Mass						
4.22	1,4-dichlorobenzene (106-46-7)	☐	☐	☐	Concentration Mass						
4.23	3,3-dichlorobenzidine (91-94-1)	☐	☐	☐	Concentration Mass						
4.24	Diethyl phthalate (84-66-2)	☐	☐	☐	Concentration Mass	mg/L <0.0002			2		
4.25	Dimethyl phthalate (131-11-3)	☐	☐	☐	Concentration Mass	mg/L <0.0002			2		
4.26	Di-n-butyl phthalate (84-74-2)	☐	☐	☐	Concentration Mass	mg/L <0.0006			2		
4.27	2,4-dinitrotoluene (121-14-2)	☐	☐	☐	Concentration Mass						
4.28	2,6-dinitrotoluene (606-20-2)	☐	☐	☐	Concentration Mass						
4.29	Di-n-octyl phthalate (117-84-0)	☐	☐	☐	Concentration Mass						
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☐	☐	☐	Concentration Mass						
4.31	Fluoranthene (206-44-0)	☐	☐	☐	Concentration Mass	mg/L <0.0005			2		
4.32	Fluorene (86-73-7)	☐	☐	☐	Concentration Mass	mg/L <0.0003			2		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)	☐	☐	☐	Concentration	mg/L	<0.0006			2		
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☐	☐	☐	Concentration	mg/L	<0.0002			2		
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☐	☐	☐	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	☐	☐	☐	Concentration	mg/L	<0.0002			2		
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☐	☐	Concentration							
					Mass							
4.38	Isophorone (78-59-1)	☐	☐	☐	Concentration							
					Mass							
4.39	Naphthalene (91-20-3)	☐	☐	☐	Concentration	mg/L	<0.0003			2		
					Mass							
4.40	Nitrobenzene (98-95-3)	☐	☐	☐	Concentration	mg/L	<0.0002			2		
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☐	☐	☐	Concentration							
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☐	☐	Concentration							
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☐	☐	☐	Concentration							
					Mass							
4.44	Phenanthrene (85-01-8)	☐	☐	☐	Concentration	mg/L	<0.0002			2		
					Mass							
4.45	Pyrene (129-00-0)	☐	☐	☐	Concentration	mg/L	<0.0002			2		
					Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹												
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)		
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
4.46	1,2,4-trichlorobenzene (120-82-1)	☐	☐	☐	Concentration Mass	mg/L	<0.0003				2	
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☐	☐	☒	Concentration Mass							
5.2	α-BHC (319-84-6)	☐	☐	☒	Concentration Mass							
5.3	β-BHC (319-85-7)	☐	☐	☒	Concentration Mass							
5.4	γ-BHC (58-89-9)	☐	☐	☒	Concentration Mass							
5.5	δ-BHC (319-86-8)	☐	☐	☒	Concentration Mass							
5.6	Chlordane (57-74-9)	☐	☐	☒	Concentration Mass							
5.7	4,4'-DDT (50-29-3)	☐	☐	☒	Concentration Mass							
5.8	4,4'-DDE (72-55-9)	☐	☐	☒	Concentration Mass							
5.9	4,4'-DDD (72-54-8)	☐	☐	☒	Concentration Mass							
5.10	Dieldrin (60-57-1)	☐	☐	☒	Concentration Mass							
5.11	α-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))¹

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)	☐	☐	☒	Concentration Mass						
5.13	Endosulfan sulfate (1031-07-8)	☐	☐	☒	Concentration Mass						
5.14	Endrin (72-20-8)	☐	☐	☒	Concentration Mass						
5.15	Endrin aldehyde (7421-93-4)	☐	☐	☒	Concentration Mass						
5.16	Heptachlor (76-44-8)	☐	☐	☒	Concentration Mass						
5.17	Heptachlor epoxide (1024-57-3)	☐	☐	☒	Concentration Mass						
5.18	PCB-1242 (53469-21-9)	☐	☐	☒	Concentration Mass						
5.19	PCB-1254 (11097-69-1)	☐	☐	☒	Concentration Mass						
5.20	PCB-1221 (11104-28-2)	☐	☐	☒	Concentration Mass						
5.21	PCB-1232 (11141-16-5)	☐	☐	☒	Concentration Mass						
5.22	PCB-1248 (12672-29-6)	☐	☐	☒	Concentration Mass						
5.23	PCB-1260 (11096-82-5)	☐	☐	☒	Concentration Mass						
5.24	PCB-1016 (12674-11-2)	☐	☐	☒	Concentration Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v)) ¹											
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)	Effluent				Intake (optional)	
			Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)	☐	☐	☒	Concentration						
					Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)		
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses	
☐ Check here if you believe all pollutants on Table C to be present in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
☒ Check here if you believe all pollutants on Table C to be absent in your discharge from the noted outfall. You need <i>not</i> complete the "Presence or Absence" column of Table C for each pollutant.										
1. Bromide (24959-67-9)	☐	☐	Concentration							
			Mass							
2. Chlorine, total residual	☐	☐	Concentration							
			Mass							
3. Color	☐	☐	Concentration							
			Mass							
4. Fecal coliform	☐	☐	Concentration							
			Mass							
5. Fluoride (16984-48-8)	☐	☐	Concentration							
			Mass							
6. Nitrate-nitrite	☐	☐	Concentration							
			Mass							
7. Nitrogen, total organic (as N)	☐	☐	Concentration							
			Mass							
8. Oil and grease	☐	☐	Concentration							
			Mass							
9. Phosphorus (as P), total (7723-14-0)	☐	☐	Concentration							
			Mass							
10. Sulfate (as SO ₄) (14808-79-8)	☐	☐	Concentration							
			Mass							
11. Sulfide (as S)	☐	☐	Concentration							
			Mass							

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

	Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
		Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)	☐	☐	Concentration						
				Mass						
13.	Surfactants	☐	☐	Concentration						
				Mass						
14.	Aluminum, total (7429-90-5)	☐	☐	Concentration						
				Mass						
15.	Barium, total (7440-39-3)	☐	☐	Concentration						
				Mass						
16.	Boron, total (7440-42-8)	☐	☐	Concentration						
				Mass						
17.	Cobalt, total (7440-48-4)	☐	☐	Concentration						
				Mass						
18.	Iron, total (7439-89-6)	☐	☐	Concentration						
				Mass						
19.	Magnesium, total (7439-95-4)	☐	☐	Concentration						
				Mass						
20.	Molybdenum, total (7439-98-7)	☐	☐	Concentration						
				Mass						
21.	Manganese, total (7439-96-5)	☐	☐	Concentration						
				Mass						
22.	Tin, total (7440-31-5)	☐	☐	Concentration						
				Mass						
23.	Titanium, total (7440-32-6)	☐	☐	Concentration						
				Mass						

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))¹

Pollutant	Presence or Absence (check one)		Units (specify)	Effluent				Intake (Optional)	
	Believed Present	Believed Absent		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
24. Radioactivity									
Alpha, total	☐	☒	Concentration						
			Mass						
Beta, total	☐	☒	Concentration						
			Mass						
Radium, total	☐	☒	Concentration						
			Mass						
Radium 226, total	☐	☒	Concentration						
			Mass						

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))'

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☒		
2.	Acetaldehyde	☐	☒		
3.	Allyl alcohol	☐	☒		
4.	Allyl chloride	☐	☒		
5.	Amyl acetate	☐	☒		
6.	Aniline	☐	☒		
7.	Benzonitrile	☐	☒		
8.	Benzyl chloride	☐	☒		
9.	Butyl acetate	☐	☒		
10.	Butylamine	☐	☒		
11.	Captan	☐	☒		
12.	Carbaryl	☐	☒		
13.	Carbofuran	☐	☒		
14.	Carbon disulfide	☐	☒		
15.	Chlorpyrifos	☐	☒		
16.	Coumaphos	☐	☒		
17.	Cresol	☐	☒		
18.	Crotonaldehyde	☐	☒		
19.	Cyclohexane	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TND0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☒		
21.	Diazinon	☐	☒		
22.	Dicamba	☐	☒		
23.	Dichlobenil	☐	☒		
24.	Dichlone	☐	☒		
25.	2,2-dichloropropionic acid	☐	☒		
26.	Dichlorvos	☐	☒		
27.	Diethyl amine	☐	☒		
28.	Dimethyl amine	☐	☒		
29.	Dinitrobenzene	☐	☒		
30.	Diquat	☐	☒		
31.	Disulfoton	☐	☒		
32.	Diuron	☐	☒		
33.	Epichlorohydrin	☐	☒		
34.	Ethion	☐	☒		
35.	Ethylene diamine	☐	☒		
36.	Ethylene dibromide	☐	☒		
37.	Formaldehyde	☐	☒		
38.	Furfural	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☒		
40.	Isoprene	☐	☒		
41.	Isopropanolamine	☐	☒		
42.	Kelthane	☐	☒		
43.	Kepone	☐	☒		
44.	Malathion	☐	☒		
45.	Mercaptodimethur	☐	☒		
46.	Methoxychlor	☐	☒		
47.	Methyl mercaptan	☐	☒		
48.	Methyl methacrylate	☐	☒		
49.	Methyl parathion	☐	☒		
50.	Mevinphos	☐	☒		
51.	Mexacarbale	☐	☒		
52.	Monoethyl amine	☐	☒		
53.	Monomethyl amine	☐	☒		
54.	Naled	☐	☒		
55.	Naphthenic acid	☐	☒		
56.	Nitrotoluene	☐	☒		
57.	Parathion	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☒		
59.	Phosgene	☐	☒		
60.	Propargite	☐	☒		
61.	Propylene oxide	☐	☒		
62.	Pyrethrins	☐	☒		
63.	Quinoline	☐	☒		
64.	Resorcinol	☐	☒		
65.	Strontium	☐	☒		
66.	Strychnine	☐	☒		
67.	Styrene	☐	☒		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☒		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☒		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☒		
71.	Trichlorofon	☐	☒		
72.	Triethanolamine	☐	☒		
73.	Triethylamine	☐	☒		
74.	Trimethylamine	☐	☒		
75.	Uranium	☐	☒		
76.	Vanadium	☐	☒		

EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number 01A
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Form Approved 03/05/19
OMB No. 2040-0004

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))¹

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☒		
78.	Xylene	☐	☒		
79.	Xylenol	☐	☒		
80.	Zirconium	☐	☒		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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EPA Identification Number TND007037765	NPDES Permit Number TN0000442	Facility Name AOC, LLC	Outfall Number
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Form Approved 03/05/19
OMB No. 2040-0004

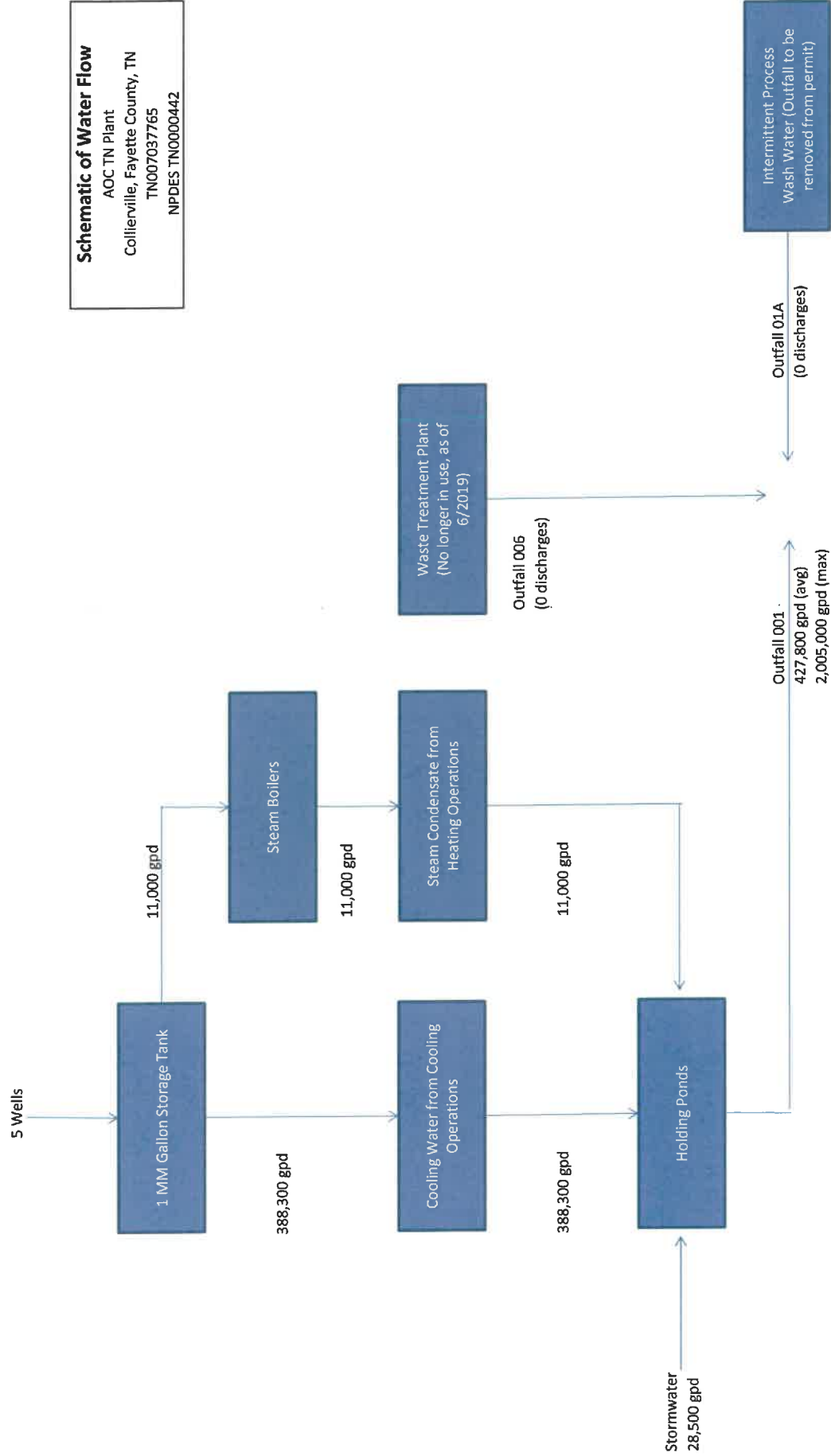
TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☒	

WATER FLOW DIAGRAM

h

Schematic of Water Flow
AOC TN Plant
Collierville, Fayette County, TN
TN007037765
NPDES TN0000442



ANALYTICAL DATA FOR OUTFALL 001

WAYPOINT ANALYTICAL LABORATORY

**ANALYTICAL DATA FOR COD, TOC, N, VOCs, SVOCs, Pesticides, PCBs, Total Cyanide, Total Phenols, and
PP Metals**

12/19/2022.

AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN, 38017

Ref: Analytical Testing
Lab Report Number: 22-343-0186
Client Project Description: Process Water Sampling

Dear Mr. Darrell Richardson:
Waypoint Analytical, LLC. received sample(s) on 12/9/2022 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2023
Arkansas	State Program	88-0650	02/07/2023
California	State Program	2904	06/30/2023
Florida	State Program - NELAP	E871157	06/30/2023
Georgia	State Program	C044	02/18/2023
Georgia	State Program	04015	06/30/2023
Illinois	State Program - NELAP	200078	10/10/2023
Kentucky	State Program	80215	06/30/2023
Kentucky	State Program	KY90047	12/31/2022
Louisiana	State Program - NELAP	LA037	12/31/2022
Louisiana	State Program - NELAP	04015	06/30/2023
Mississippi	State Program	MS	02/11/2023
North Carolina	State Program	47701	07/31/2023
North Carolina	State Program	415	12/31/2022
Pennsylvania	State Program - NELAP	68-03195	05/31/2023
South Carolina	State Program	84002	06/30/2023
Tennessee	State Program	02027	02/11/2023
Texas	State Program - NELAP	T104704180	09/30/2022
Virginia	State Program	00106	06/30/2023
Virginia	State Program - NELAP	460181	09/14/2023



Sample Summary Table

Report Number: 22-343-0186

Client Project Description: Process Water Sampling

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
81158	Outfall 001 - A	Aqueous	12/09/2022 13:00	12/09/2022
81159	Outfall 001 - B	Aqueous	12/06/2022 13:00	12/09/2022

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project Process Water Sampling
Information :

Report Date : 12/19/2022

Received : 12/09/2022

Report Number : 22-343-0186

REPORT OF ANALYSIS

Lab No : 81158
Sample ID : Outfall 001 - A

Matrix: Aqueous
Sampled: 12/9/2022 13:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Ammonia Nitrogen	<0.100	mg/L	0.100	1	12/12/22 10:05	CNB	4500NH3D-2011
COD (Chemical Oxygen Demand)	<15.0	mg/L	15.0	1	12/16/22 13:00	CJR	5220D-2011
TOC	<1.00	mg/L	1.00	1	12/17/22 13:45	CJD	5310C-2014

Lab No : 81159
Sample ID : Outfall 001 - B

Matrix: Aqueous
Sampled: 12/6/2022 13:00

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Method
Ammonia Nitrogen	<0.100	mg/L	0.100	1	12/12/22 10:05	CNB	4500NH3D-2011
COD (Chemical Oxygen Demand)	<15.0	mg/L	15.0	1	12/16/22 13:00	CJR	5220D-2011
TOC	<1.00	mg/L	1.00	1	12/17/22 14:23	CJD	5310C-2014

Qualifiers/ Definitions	DF	Dilution Factor	L	Limit Exceeded
	MQL	Method Quantitation Limit		

Shipment Receipt Form

Customer Number: **03701**

Customer Name: **AOC, LLC**

Report Number: **22-343-0186**

Shipping Method

☐ Fed Ex ☐ US Postal ☐ Lab ☐ Other :
☐ UPS ☒ Client ☐ Courier Thermometer ID:

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☒ Yes	☐ No	☐ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No	☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Date & Time:



Kit ID:	197972
Initiated By:	Erin Harris
Initiated Date:	12/7/2022
Project Comment	

CHAIN-OF-CUSTODY



AOC, LLC
Process Water Sampling

22-343-0186
03701
12-09-2022
15 58 58

Company Name	Company Number	Client Project Manager/Contact	Purchase Order Number
AOC, LLC	03701	Mr. Darrell Richardson	
Site Name	Project Number	☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed	Method of Shipment ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other
Process Water Sampling			
LIMS Project ID	Project Manager Phone #	Project Manager Email	Site/Facility ID #
	901-603-7714	DRichardson@aoc-resins.com	

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
12/9/22	1300	outfall 001-A	AQU	G	1	Plastic - Quart	H2SO4 - Sulfuric Acid	COD/NH4-N
12/9/22	1300	Outfall 001-A	AQU	G	2	Glass Vial Clear - 40ml	H3PO4 - Phosphoric Acid	TOC
12/9/22	1300	Outfall 001-B	AQU	G	1	Plastic - Quart	H2SO4 - Sulfuric Acid	COD/NH4-N
12/9/22	1300	Outfall 001-B	AQU	G	2	Glass Vial Clear - 40ml	H3PO4 - Phosphoric Acid	TOC

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments				
Ice	Custody Seals	Lab Comments	Darrell Richardson					
Y/N	Y/N		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			RLR	12/9/22	PM			
			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Blank/ Cooler Temp			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
1.0°C	71.3°F					Emily Peterson	12/9/22	1553

1/24/2023

AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN, 38017

Ref: Analytical Testing
Lab Report Number: 23-017-0140
Client Project Description: NPDES Sampling

Dear Mr. Darrell Richardson:
Waypoint Analytical, LLC. received sample(s) on 1/17/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randall H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2023
Arkansas	State Program	88-0650	02/07/2023
California	State Program	2904	06/30/2023
Florida	State Program - NELAP	E871157	06/30/2023
Georgia	State Program	C044	02/18/2023
Georgia	State Program	04015	06/30/2023
Illinois	State Program - NELAP	200078	10/10/2023
Kentucky	State Program	80215	06/30/2023
Kentucky	State Program	KY90047	12/31/2023
Louisiana	State Program - NELAP	LA037	12/31/2023
Louisiana	State Program - NELAP	04015	06/30/2023
Mississippi	State Program	MS	02/11/2023
North Carolina	State Program	47701	07/31/2023
North Carolina	State Program	415	12/31/2023
Pennsylvania	State Program - NELAP	68-03195	05/31/2023
South Carolina	State Program	84002	06/30/2023
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2023
Virginia	State Program	00106	06/30/2023
Virginia	State Program - NELAP	460181	09/14/2023



Sample Summary Table

Report Number: 23-017-0140

Client Project Description: NPDES Sampling

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
94288	Outfall 001	Aqueous	01/17/2023 11:00	01/17/2023

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project NPDES Sampling
Information :

Report Date : 01/24/2023
Received : 01/17/2023

Randall H. Thomas

Report Number : 23-017-0140

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : 94288
Sample ID : Outfall 001

Matrix: Aqueous
Sampled: 1/17/2023 11:00

Analytical Method: 608.3
Prep Method: 608.3
Prep Batch(es): L659763 01/20/23 16:20

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aldrin	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
alpha-BHC	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
beta-BHC	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
delta-BHC	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Chlordane	<0.200	µg/L	0.200	10	01/20/23 23:56	NFP	L659902
4,4'-DDD	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
4,4'-DDE	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
4,4'-DDT	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Dieldrin	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Endosulfan I	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Endosulfan II	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Endosulfan Sulfate	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Endrin	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Endrin Aldehyde	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
gamma-BHC	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Heptachlor	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Heptachlor Epoxide	<0.0400	µg/L	0.0400	10	01/20/23 23:56	NFP	L659902
Toxaphene	<0.300	µg/L	0.300	10	01/20/23 23:56	NFP	L659902
Surrogate: Decachlorobiphenyl	77.1		Limits: 34-116%	10	01/20/23 23:56	NFP	L659902
Surrogate: Tetrachloro-m-xylene	61.0		Limits: 25-123%	10	01/20/23 23:56	NFP	L659902

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project NPDES Sampling
Information :

Report Date : 01/24/2023
Received : 01/17/2023

Randall H. Thomas

Randy Thomas
Project Manager

Report Number : 23-017-0140

REPORT OF ANALYSIS

Lab No : 94288
Sample ID : Outfall 001

Matrix: Aqueous
Sampled: 1/17/2023 11:00

Analytical Method: 608.3 (PCB) Prep Batch(es): L659764 01/20/23 16:20
Prep Method: EPA-608.3 (PCB PREP)

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Aroclor 1016	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Aroclor 1221	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Aroclor 1232	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Aroclor 1242	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Aroclor 1248	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Aroclor 1254	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Aroclor 1260	<0.200	µg/L	0.200	1	01/21/23 09:16	NFP	L659889
Surrogate: Decachlorobiphenyl	41.4		Limits: 25-125%	1	01/21/23 09:16	NFP	608.3 (PCB)
Surrogate: Tetrachloro-m-xylene	53.7		Limits: 25-125%	1	01/21/23 09:16	NFP	608.3 (PCB)

Analytical Method: 624.1 Prep Batch(es): L659601 01/19/23 08:26
Prep Method: 624.1

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acrolein	<20.0	µg/L	20.0	1	01/19/23 20:06	HRS	L659638
Acrylonitrile	<20.0	µg/L	20.0	1	01/19/23 20:06	HRS	L659638
Benzene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Bromodichloromethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Bromoform	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Bromomethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Carbon Tetrachloride	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Chlorobenzene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Chlorodibromomethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638

Qualifiers/ Definitions DF Dilution Factor MQL Method Quantitation Limit

03701

AOC, LLC

Mr. Darrell Richardson

950 Highway 57 East

Collierville, TN 38017

Project NPDES Sampling

Information :

Report Date : 01/24/2023

Received : 01/17/2023

Randell H. Thomas

Report Number : 23-017-0140

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : 94288

Matrix: Aqueous

Sample ID : Outfall 001

Sampled: 1/17/2023 11:00

Analytical Method: 624.1

Prep Batch(es): L659601 01/19/23 08:26

Prep Method: 624.1

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Chloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
2-Chloroethylvinyl Ether	<5.00	µg/L	5.00	1	01/19/23 20:06	HRS	L659638
Chloroform	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Chloromethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,2-Dichlorobenzene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,3-Dichlorobenzene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,4-Dichlorobenzene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,1-Dichloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,2-Dichloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,1-Dichloroethene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
cis-1,2-Dichloroethene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
trans-1,2-Dichloroethene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,2-Dichloroethene (Total)	<1.00	µg/L	1.00	1	01/19/23 20:06		L659638
1,2-Dichloropropane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
cis-1,3-Dichloropropene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
trans-1,3-Dichloropropene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,3-Dichloropropene (Total)	<1.00	µg/L	1.00	1	01/19/23 20:06		L659638
Ethylbenzene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Methylene Chloride	<10.0	µg/L	10.0	1	01/19/23 20:06	HRS	L659638
1,1,1,2-Tetrachloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,1,2,2-Tetrachloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Tetrachloroethene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

03701

AOC, LLC

Mr. Darrell Richardson

950 Highway 57 East

Collierville, TN 38017

Project NPDES Sampling

Information :

Report Date : 01/24/2023

Received : 01/17/2023

Randell H. Thomas

Report Number : **23-017-0140**

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : **94288**

Matrix: **Aqueous**

Sample ID : **Outfall 001**

Sampled: **1/17/2023 11:00**

Analytical Method: 624.1 **Prep Batch(es):** L659601 01/19/23 08:26

Prep Method: 624.1

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Toluene	<5.00	µg/L	5.00	1	01/19/23 20:06	HRS	L659638
1,1,1-Trichloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
1,1,2-Trichloroethane	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Trichloroethene	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Vinyl Chloride	<1.00	µg/L	1.00	1	01/19/23 20:06	HRS	L659638
Surrogate: 4-Bromofluorobenzene	71.2		Limits: 71-131%	1	01/19/23 20:06	HRS	L659638
Surrogate: Dibromofluoromethane	111		Limits: 70-128%	1	01/19/23 20:06	HRS	L659638
Surrogate: 1,2-Dichloroethane - d4	120		Limits: 67-136%	1	01/19/23 20:06	HRS	L659638
Surrogate: Toluene-d8	78.2		Limits: 70-130%	1	01/19/23 20:06	HRS	L659638

Analytical Method: 625.1 **Prep Batch(es):** L659995 01/23/23 14:30

Prep Method: 625.1

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acenaphthene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Acenaphthylene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Anthracene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Benzidine	<20.0	µg/L	20.0	1	01/24/23 01:27	VBW	L660104
Benzo(a)anthracene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Benzo(a)pyrene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Benzo(b)fluoranthene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Benzo(g,h,i)perylene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Benzo(k)fluoranthene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104

**Qualifiers/
Definitions**

DF

Dilution Factor

MQL

Method Quantitation Limit

03701

AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project NPDES Sampling

Information :

Report Date : 01/24/2023
Received : 01/17/2023

Randell H. Thomas

Report Number : **23-017-0140**

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : **94288**
Sample ID : **Outfall 001**

Matrix: **Aqueous**
Sampled: **1/17/2023 11:00**

Analytical Method: 625.1 Prep Batch(es): **L659995** 01/23/23 14:30
Prep Method: 625.1

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Bis(2-Chloroethoxy)methane	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Bis(2-Chloroethyl)ether	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Bis(2-Chloroisopropyl)ether	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Bis(2-ethylhexyl)phthalate	<10.0	µg/L	10.0	1	01/24/23 01:27	VBW	L660104
4-Bromophenyl phenyl ether	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Butyl benzyl phthalate	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
4-Chloro-3-methylphenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
2-Chloronaphthalene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
2-Chlorophenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
4-Chlorophenyl phenyl ether	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Chrysene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Dibenz(a,h)anthracene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
1,2-Dichlorobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
1,3-Dichlorobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
1,4-Dichlorobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
3,3'-Dichlorobenzidine	<10.0	µg/L	10.0	1	01/24/23 01:27	VBW	L660104
2,4-Dichlorophenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Diethyl phthalate	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Dimethyl phthalate	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
2,4-Dimethylphenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Di-n-butyl phthalate	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
4,6-Dinitro-2-methylphenol	<10.0	µg/L	10.0	1	01/24/23 01:27	VBW	L660104

Qualifiers/ Definitions	DF	Dilution Factor	MQL	Method Quantitation Limit
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03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project NPDES Sampling
Information :

Report Date : 01/24/2023
Received : 01/17/2023

Randall H. Thomas

Randy Thomas
Project Manager

Report Number : **23-017-0140**

REPORT OF ANALYSIS

Lab No : **94288**
Sample ID : **Outfall 001**

Matrix: **Aqueous**
Sampled: **1/17/2023 11:00**

Analytical Method: 625.1
Prep Method: 625.1
Prep Batch(es): L659995 01/23/23 14:30

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
2,4-Dinitrophenol	<20.0	µg/L	20.0	1	01/24/23 01:27	VBW	L660104
2,4-Dinitrotoluene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
2,6-Dinitrotoluene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Di-n-Octyl Phthalate	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
1,2-Diphenylhydrazine/Azobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Fluoranthene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Fluorene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Hexachlorobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Hexachlorobutadiene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Hexachlorocyclopentadiene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Hexachloroethane	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Indeno(1,2,3-cd)pyrene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Isophorone	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Naphthalene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
Nitrobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
2-Nitrophenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
4-Nitrophenol	<10.0	µg/L	10.0	1	01/24/23 01:27	VBW	L660104
N-Nitrosodimethylamine	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
N-Nitrosodiphenylamine	<10.0	µg/L	10.0	1	01/24/23 01:27	VBW	L660104
N-Nitroso-di-n-propylamine	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Pentachlorophenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Phenanthrene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104

Qualifiers/Definitions	DF	Dilution Factor	MQL	Method Quantitation Limit
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03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project NPDES Sampling
Information :

Report Date : 01/24/2023
Received : 01/17/2023

Randall H. Thomas

Report Number : 23-017-0140

REPORT OF ANALYSIS

Randy Thomas
Project Manager

Lab No : 94288
Sample ID : Outfall 001

Matrix: Aqueous
Sampled: 1/17/2023 11:00

Analytical Method: 625.1 Prep Batch(es): L659995 01/23/23 14:30
Prep Method: 625.1

Test	Results	Units	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Phenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Pyrene	<2.00	µg/L	2.00	1	01/24/23 01:27	VBW	L660104
1,2,4-Trichlorobenzene	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
2,4,6-Trichlorophenol	<5.00	µg/L	5.00	1	01/24/23 01:27	VBW	L660104
Surrogate: 2-Fluorobiphenyl	64.1		Limits: 30-107%	1	01/24/23 01:27	VBW	L660104
Surrogate: 2-Fluorophenol	25.3		Limits: 8-88%	1	01/24/23 01:27	VBW	L660104
Surrogate: Nitrobenzene-d5	64.5		Limits: 29-105%	1	01/24/23 01:27	VBW	L660104
Surrogate: Phenol-d6	16.7		Limits: 7-58%	1	01/24/23 01:27	VBW	L660104
Surrogate: 4-Terphenyl-d14	99.3		Limits: 30-130%	1	01/24/23 01:27	VBW	L660104
Surrogate: 2,4,6-Tribromophenol	63.7		Limits: 16-138%	1	01/24/23 01:27	VBW	L660104

Qualifiers/ Definitions	DF	Dilution Factor	MQL	Method Quantitation Limit
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Shipment Receipt Form

Customer Number: **03701**

Customer Name: **AOC, LLC**

Report Number: **23-017-0140**

Shipping Method

☐ Fed Ex ☐ US Postal ☐ Lab ☐ Other :
☐ UPS ☒ Client ☐ Courier Thermometer ID: T136

Shipping container/cooler uncompromised?	☒ Yes	☐ No
Number of coolers/boxes received	1	
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No ☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No ☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No
COC agrees with sample label(s)?	☒ Yes	☐ No
COC properly completed	☒ Yes	☐ No
Samples in proper containers?	☒ Yes	☐ No
Sample containers intact?	☒ Yes	☐ No
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No
All samples received within holding time?	☒ Yes	☐ No
Cooler temperature in compliance?	☒ Yes	☐ No
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No
Water - Sample containers properly preserved	☒ Yes	☐ No ☐ N/A
Water - VOA vials free of headspace	☒ Yes	☐ No ☐ N/A
Trip Blanks received with VOAs	☐ Yes	☒ No ☐ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No ☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)	
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)	
Special precautions or instructions included?	☐ Yes	☒ No

Comments:

Signature: Fredreuna Shivers

Date & Time: 01/17/2023 16:53:23



CHAIN-OF-CUSTODY

Kit ID:	200492
Initiated By:	Randy Thomas
Initiated Date:	1/11/2023
Project Comment	

Company Name		Company Number		Client Project Manager/Contact		Purchase Order Number		
AOC, LLC		03701		Mr. Darrell Richardson				
Site Name		Project Number		☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed		Method of Shipment		
NPDES Sampling						☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other		
LIMS Project ID		Project Manager Phone #		Project Manager Email		Site/Facility ID #		
				DRichardson@aoc-resins.com				
Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
1/17/23	1100	Outfall-001	AQU	G	3	Glass Vial Amber - 40ml	NONE	624 - VOCs
1/17/23	1100	Outfall-001	AQU	G	3	Glass Amber - Liter	Na2S2O3 - Sodium Thiosulfate	625/608 - SVOC/Pest/PCB



For Laboratory Use Only			Sampled by (Name - Print)		Client Remarks/Comments			
Ice	Custody Seals	Lab Comments	Darrell Richardson					
(Y/N)	(Y/N)		Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
Blank/Cooler Temp								
4.1°C T136103					Fredricka Shivers 1/17/23 15:55			

1/26/2023

AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN, 38017

Ref: Analytical Testing
Lab Report Number: 23-017-0141
Client Project Description: Outfall 01A

Dear Mr. Darrell Richardson:
Waypoint Analytical, LLC. received sample(s) on 1/17/2023 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method. Where the laboratory was not responsible for the sampling stage (refer to the chain of custody) results apply to the sample as received.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2021) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,



Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Certification Summary

Laboratory ID: WP MTN: Waypoint Analytical, LLC., Memphis, TN

State	Program	Lab ID	Expiration Date
Alabama	State Program	40750	02/28/2023
Arkansas	State Program	88-0650	02/07/2023
California	State Program	2904	06/30/2023
Florida	State Program - NELAP	E871157	06/30/2023
Georgia	State Program	C044	02/18/2023
Georgia	State Program	04015	06/30/2023
Illinois	State Program - NELAP	200078	10/10/2023
Kentucky	State Program	80215	06/30/2023
Kentucky	State Program	KY90047	12/31/2023
Louisiana	State Program - NELAP	LA037	12/31/2023
Louisiana	State Program - NELAP	04015	06/30/2023
Mississippi	State Program	MS	02/11/2023
North Carolina	State Program	47701	07/31/2023
North Carolina	State Program	415	12/31/2023
Pennsylvania	State Program - NELAP	68-03195	05/31/2023
South Carolina	State Program	84002	06/30/2023
Tennessee	State Program	02027	11/14/2025
Texas	State Program - NELAP	T104704180	09/30/2023
Virginia	State Program	00106	06/30/2023
Virginia	State Program - NELAP	460181	09/14/2023



Sample Summary Table

Report Number: 23-017-0141

Client Project Description: Outfall 01A

Lab No	Client Sample ID	Matrix	Date Collected	Date Received
94289	Outfall 01A	Aqueous	01/17/2023 11:00	01/17/2023



Client: AOC, LLC
Project: Outfall 01A
Lab Report Number: 23-017-0141
Date: 1/26/2023

CASE NARRATIVE

Total Metals Method EPA-200.7

Sample 94289 (Outfall 01A)

Analyte: Zinc

QC Batch No: L659918/L659186

Target analyte(s) was identified in the method blank associated with this project, below the Method Quantitation Limit. Per laboratory protocol any associated affected sample result is flagged "B" to indicate that it was detected in the method blank.

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 01/26/2023

Received : 01/17/2023

Report Number : 23-017-0141

REPORT OF ANALYSIS

Lab No : 94289
Sample ID : Outfall 01A

Matrix: Aqueous
Sampled: 1/17/2023 11:00

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Cyanide, Total	<0.002	mg/L	0.002	0.005	1	01/26/23 10:30	FMM	4500CNE-2016
Phenols (Total)	<0.050	mg/L		0.050	1	01/23/23 10:30	CLP	EPA-420.1
Antimony	<0.0072	mg/L	0.0072	0.0100	1	01/19/23 23:23	BKN	EPA-200.7
Arsenic	<0.0055	mg/L	0.0055	0.0100	1	01/19/23 23:23	BKN	EPA-200.7
Beryllium	<0.0007	mg/L	0.0007	0.0010	1	01/19/23 23:23	BKN	EPA-200.7
Cadmium	<0.0003	mg/L	0.0003	0.0020	1	01/19/23 23:23	BKN	EPA-200.7
Chromium	<0.0014	mg/L	0.0014	0.0050	1	01/19/23 23:23	BKN	EPA-200.7
Copper	0.0068	mg/L	0.0014	0.0050	1	01/19/23 23:23	BKN	EPA-200.7
Lead	<0.0029	mg/L	0.0029	0.0060	1	01/19/23 23:23	BKN	EPA-200.7
Mercury	<0.00020	mg/L		0.00020	1	01/25/23 14:43	JTR	EPA-245.1
Nickel	0.0013 J	mg/L	0.0008	0.0050	1	01/19/23 23:23	BKN	EPA-200.7
Selenium	<0.0098	mg/L	0.0098	0.0100	1	01/19/23 23:23	BKN	EPA-200.7
Silver	<0.0013	mg/L	0.0013	0.0050	1	01/19/23 23:23	BKN	EPA-200.7
Thallium	<0.0080	mg/L	0.0080	0.0200	1	01/19/23 23:23	BKN	EPA-200.7
Zinc	0.0091 JB	mg/L	0.0026	0.0200	1	01/20/23 17:46	JTR	EPA-200.7

Qualifiers/ Definitions	B	Analyte detected in blank
	J	Estimated value
	MQL	Method Quantitation Limit

DF	Dilution Factor
L	Limit Exceeded

Shipment Receipt Form

Customer Number: **03701**

Customer Name: **AOC, LLC**

Report Number: **23-017-0141**

Shipping Method

☐ Fed Ex ☐ US Postal ☐ Lab ☐ Other :
☐ UPS ☒ Client ☐ Courier Thermometer ID: T136

Shipping container/cooler uncompromised?	☒ Yes	☐ No	
Number of coolers/boxes received	1		
Custody seals intact on shipping container/cooler?	☐ Yes	☐ No	☒ Not Present
Custody seals intact on sample bottles?	☐ Yes	☐ No	☒ Not Present
Chain of Custody (COC) present?	☒ Yes	☐ No	
COC agrees with sample label(s)?	☒ Yes	☐ No	
COC properly completed	☒ Yes	☐ No	
Samples in proper containers?	☒ Yes	☐ No	
Sample containers intact?	☒ Yes	☐ No	
Sufficient sample volume for indicated test(s)?	☒ Yes	☐ No	
All samples received within holding time?	☒ Yes	☐ No	
Cooler temperature in compliance?	☒ Yes	☐ No	
Cooler/Samples arrived at the laboratory on ice. Samples were considered acceptable as cooling process had begun.	☒ Yes	☐ No	
Water - Sample containers properly preserved	☒ Yes	☐ No	☐ N/A
Water - VOA vials free of headspace	☐ Yes	☐ No	☒ N/A
Trip Blanks received with VOAs	☐ Yes	☐ No	☒ N/A
Soil VOA method 5035 – compliance criteria met	☐ Yes	☐ No	☒ N/A
☐ High concentration container (48 hr)	☐ Low concentration EnCore samplers (48 hr)		
☐ High concentration pre-weighed (methanol -14 d)	☐ Low conc pre-weighed vials (Sod Bis -14 d)		
Special precautions or instructions included?	☐ Yes	☒ No	

Comments:

Signature:

Date & Time:



Kit ID:	200695
Initiated By:	Connie Cook
Initiated Date:	1/13/2023
Project Comment	

CHAIN-OF-CUSTODY

Company Name		Company Number		Client Project Manager/Contact		Purchase Order Number	
AOC, LLC		03701		Mr. Darrell Richardson			
Site Name		Project Number		☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed		Method of Shipment	
NPDES Sampling						☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	
LIMS Project ID		Project Manager Phone #		Project Manager Email		Site/Facility ID #	
AOC - Permit Testing				DRichardson@aoc-resins.com			

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
1/17/23	1100	Outfall-001	AQU	G	1	Plastic - Quart	NaOH - Sodium Hydroxide	Total Cyanide
1/17/23	1100	Outfall-001	AQU	G	1	Glass Clear - Quart	H2SO4 - Sulfuric Acid	Total Phenols
1/17/23	1100	Outfall-001	AQU	G	1	Plastic - Pint	HNO3 - Nitric Acid	PP Metals



For Laboratory Use Only			Sampled by (Name - Print)		Client Remarks/Comments				
Ice	Custody Seals	Lab Comments	Darrell Richardson						
Y/N	Y/N		Relinquished by: (SIGNATURE)		Date	Time	Received by: (SIGNATURE)	Date	Time
Blank/Cooler Temp			Relinquished by: (SIGNATURE)		Date	Time	Received by: (SIGNATURE)	Date	Time
2.6 TBS6 FOS						Fredman Shivers		1/17/23	15:55

ANALYTICAL DATA FOR OUTFALL 01A

WAYPOINT ANALYTICAL LABORATORY

INTERMITTENT WASH WATER OUTFALL

ANALYTICAL DATA FOR VOC, SVOC, BOD, TSS, CRX, CRIII, CNT, Cr, Cu, Pb, Ni, Zn

11/28/2017

AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN, 38017

Ref: Analytical Testing
Lab Report Number: 17-319-0239
Client Project Description: Outfall 01A

Dear Mr. Darrell Richardson:
Waypoint Analytical, Inc. received sample(s) on 11/15/2017 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an as-received basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randell H. Thomas

Randy Thomas
Project Manager

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.

Alabama #40750	Louisiana #04015	VA NELAP #460181	Texas #T104704180-11-6	Arkansas #88-0650
Mississippi	California #2904	NC #415	Oklahoma #9311	Virginia #00106
Kentucky #90047	Tennessee #TN02027	EPA #TN00012	Kentucky UST #41	



Client: AOC, LLC
Project: Outfall 01A
Lab Report Number: 17-319-0239
Date: 11/28/2017

CASE NARRATIVE

Semivolatile Organic Compounds - GC/MS Method EPA-625

Sample 92462 (Outfall 01A Comp 2)

QC Batch No: L358365/L358258

Surrogate(s) were flagged for recoveries in the associated project sample. During the extraction step, the extraction technician noted that a significant emulsion formed. Batch QC samples (Method Blank and Laboratory Control Samples) all showed surrogate recoveries within QC limits, indicating that the low recoveries were due to the sample matrix.

Biochemical Oxygen Demand (BOD) Method SM-5210B-BOD

Sample ()

QC Batch No: L357750

The dissolved oxygen (DO) depletion for the dilution water blank exceeded the 0.20 mg/L limit allowed by the reference method. For this analytical batch, the dilution water blank depleted 0.36 mg/L.

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville , TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017

Received : 11/15/2017

Report Number : **17-319-0239**

REPORT OF ANALYSIS

Lab No : **92461**
Sample ID : **Outfall 01A**

Matrix: **Aqueous**
Sampled: **11/15/2017 10:00**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Biochemical Oxygen Demand (5-day)	<12 B	mg/L	12	12	1	11/15/17 12:00	SNB	5210B-2011
Chromium, Hexavalent	<0.002	mg/L	0.002	0.010	1	11/15/17 10:25	TKM	3500CrB-2011
Chromium, Tri-valent	<0.002	mg/L	0.002	0.010	1	11/15/17 10:25		CALCULATION~
Cyanide, Total	<0.003	mg/L	0.003	0.005	1	11/16/17 09:40	CJR	4500CNE-2011
Total Suspended Solids	109	mg/L	2	2	1	11/16/17 15:00	CxC	2540D-2011
Total Chromium	<0.001	mg/L	0.001	0.005	1	11/28/17 02:25	KKM	EPA-200.7
Total Copper	0.012	mg/L	0.002	0.005	1	11/28/17 02:25	KKM	EPA-200.7
Total Lead	<0.003	mg/L	0.003	0.006	1	11/28/17 02:25	KKM	EPA-200.7
Total Nickel	0.004 J	mg/L	0.002	0.005	1	11/28/17 02:25	KKM	EPA-200.7
Total Zinc	0.066	mg/L	0.002	0.010	1	11/28/17 02:25	KKM	EPA-200.7

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017
Received : 11/15/2017

Report Number : 17-319-0239

REPORT OF ANALYSIS

Lab No : 92461
Sample ID : Outfall 01A

Matrix: Aqueous
Sampled: 11/15/2017 10:00

Analytical Method: 624 Prep Batch(es): L357814 11/16/17 09:18 L358729 11/22/17 08:51
Prep Method: EPA-624 (PREP)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acrylonitrile	<0.0028	mg/L	0.0028	0.0200	1	11/16/17 16:28	MKD	L357816
Benzene	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816
Carbon Tetrachloride	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 16:28	MKD	L357816
Chlorobenzene	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 16:28	MKD	L357816
Chloroethane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816
Chloroform	<0.0005	mg/L	0.0005	0.0010	1	11/16/17 16:28	MKD	L357816
Chloromethane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816
1,2-Dichlorobenzene	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 16:28	MKD	L357816
1,3-Dichlorobenzene	<0.0009	mg/L	0.0009	0.0010	1	11/16/17 16:28	MKD	L357816
1,4-Dichlorobenzene	<0.0007	mg/L	0.0007	0.0010	1	11/16/17 16:28	MKD	L357816
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.0010	1	11/16/17 16:28	MKD	L357816
1,2-Dichloroethane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816
1,1-Dichloroethylene	<0.0004	mg/L	0.0004	0.0010	1	11/16/17 16:28	MKD	L357816
trans-1,2-Dichloroethylene	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816
1,2-Dichloropropane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816
cis-1,3-Dichloropropene	<0.0005	mg/L	0.0005	0.0010	1	11/16/17 16:28	MKD	L357816
trans-1,3-Dichloropropene	<0.0007	mg/L	0.0007	0.0010	1	11/16/17 16:28	MKD	L357816
1,3-Dichloropropene (Total)	<0.0005	mg/L	0.0005	0.0010	1	11/16/17 16:28		L357816
Ethylbenzene	0.218	mg/L	0.0078	0.0100	10	11/22/17 16:07	ELM	L358730
Methylene Chloride	<0.0021	mg/L	0.0021	0.0100	1	11/16/17 16:28	MKD	L357816
Tetrachloroethylene	<0.0006	mg/L	0.0006	0.0010	1	11/16/17 16:28	MKD	L357816
Toluene	<0.0011	mg/L	0.0011	0.0050	1	11/16/17 16:28	MKD	L357816

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017
Received : 11/15/2017

Report Number : 17-319-0239

REPORT OF ANALYSIS

Lab No : 92461
Sample ID : Outfall 01A

Matrix: Aqueous
Sampled: 11/15/2017 10:00

Analytical Method:	624	Prep Batch(es):		L357814	11/16/17 09:18		L358729	11/22/17 08:51	
Prep Method:	EPA-624 (PREP)								
Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch	
1,1,1-Trichloroethane	<0.0006	mg/L	0.0006	0.0010	1	11/16/17 16:28	MKD	L357816	
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 16:28	MKD	L357816	
Trichloroethylene	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816	
Vinyl Chloride	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 16:28	MKD	L357816	
Surrogate: 4-Bromofluorobenzene	92.0		Limits: 71-131%		1	11/16/17 16:28	MKD	L357816	
Surrogate: Dibromofluoromethane	87.4		Limits: 70-128%		1	11/16/17 16:28	MKD	L357816	
Surrogate: 1,2-Dichloroethane - d4	114		Limits: 67-136%		1	11/16/17 16:28	MKD	L357816	
Surrogate: Toluene-d8	89.6		Limits: 70-130%		1	11/16/17 16:28	MKD	L357816	
Surrogate: 4-Bromofluorobenzene	93.6		Limits: 71-131%		10	11/22/17 16:07	ELM	L358730	
Surrogate: Dibromofluoromethane	112		Limits: 70-128%		10	11/22/17 16:07	ELM	L358730	
Surrogate: 1,2-Dichloroethane - d4	121		Limits: 67-136%		10	11/22/17 16:07	ELM	L358730	
Surrogate: Toluene-d8	99.2		Limits: 70-130%		10	11/22/17 16:07	ELM	L358730	

Analytical Method: 625
Prep Method: 625
Prep Batch(es): L358258 11/20/17 14:15

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch	
Acenaphthene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 17:12	CGC	L358365	
Acenaphthylene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 17:12	CGC	L358365	
Anthracene	<0.0005	mg/L	0.0005	0.002	1	11/22/17 17:12	CGC	L358365	
Benzo(a)anthracene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 17:12	CGC	L358365	
Benzo(a)pyrene	<0.0008	mg/L	0.0008	0.002	1	11/22/17 17:12	CGC	L358365	
3,4-Benzofluoranthene	<0.0005	mg/L	0.0005	0.002	1	11/22/17 17:12	CGC	L358365	

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701

AOC, LLC

Mr. Darrell Richardson

950 Highway 57 East

Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017

Received : 11/15/2017

Report Number : 17-319-0239

REPORT OF ANALYSIS

Lab No : 92461

Matrix: Aqueous

Sample ID : Outfall 01A

Sampled: 11/15/2017 10:00

Analytical Method: 625 Prep Batch(es): L358258 11/20/17 14:15
Prep Method: 625

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 17:12	CGC	L358365
Bis(2-ethylhexyl)phthalate	<0.0003	mg/L	0.0003	0.010	1	11/22/17 17:12	CGC	L358365
Chrysene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 17:12	CGC	L358365
Diethyl phthalate	<0.0002	mg/L	0.0002	0.005	1	11/22/17 17:12	CGC	L358365
Dimethyl phthalate	<0.0002	mg/L	0.0002	0.005	1	11/22/17 17:12	CGC	L358365
2,4-Dimethylphenol	<0.0003	mg/L	0.0003	0.005	1	11/22/17 17:12	CGC	L358365
Di-n-butyl phthalate	<0.0006	mg/L	0.0006	0.005	1	11/22/17 17:12	CGC	L358365
4,6-Dinitro-o-cresol	<0.002	mg/L	0.002	0.010	1	11/22/17 17:12	CGC	L358365
2,4-Dinitrophenol	<0.002	mg/L	0.002	0.005	1	11/22/17 17:12	CGC	L358365
Fluoranthene	<0.0005	mg/L	0.0005	0.002	1	11/22/17 17:12	CGC	L358365
Fluorene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 17:12	CGC	L358365
Hexachlorobenzene	<0.0006	mg/L	0.0006	0.005	1	11/22/17 17:12	CGC	L358365
Hexachlorobutadiene	<0.0002	mg/L	0.0002	0.005	1	11/22/17 17:12	CGC	L358365
Hexachloroethane	<0.0002	mg/L	0.0002	0.005	1	11/22/17 17:12	CGC	L358365
Naphthalene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 17:12	CGC	L358365
Nitrobenzene	<0.0002	mg/L	0.0002	0.005	1	11/22/17 17:12	CGC	L358365
2-Nitrophenol	<0.0004	mg/L	0.0004	0.005	1	11/22/17 17:12	CGC	L358365
4-Nitrophenol	<0.0006	mg/L	0.0006	0.020	1	11/22/17 17:12	CGC	L358365
Phenanthrene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 17:12	CGC	L358365
Phenol	<0.0002	mg/L	0.0002	0.005	1	11/22/17 17:12	CGC	L358365
Pyrene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 17:12	CGC	L358365

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701

AOC, LLC

Mr. Darrell Richardson

950 Highway 57 East

Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017

Received : 11/15/2017

Report Number : **17-319-0239**

REPORT OF ANALYSIS

Lab No : **92461**

Sample ID : **Outfall 01A**

Matrix: **Aqueous**

Sampled: **11/15/2017 10:00**

Analytical Method: 625

Prep Batch(es): L358258 11/20/17 14:15

Prep Method: 625

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,2,4-Trichlorobenzene	<0.0003	mg/L	0.0003	0.005	1	11/22/17 17:12	CGC	L358365
Surrogate: 2-Fluorobiphenyl	43.9		Limits: 38-107%		1	11/22/17 17:12	CGC	L358365
Surrogate: 2-Fluorophenol	19.1		Limits: 8-88%		1	11/22/17 17:12	CGC	L358365
Surrogate: Nitrobenzene-d5	33.4		Limits: 29-105%		1	11/22/17 17:12	CGC	L358365
Surrogate: Phenol-d6	15.5		Limits: 7-58%		1	11/22/17 17:12	CGC	L358365
Surrogate: 4-Terphenyl-d14	54.0		Limits: 30-130%		1	11/22/17 17:12	CGC	L358365
Surrogate: 2,4,6-Tribromophenol	58.7		Limits: 16-138%		1	11/22/17 17:12	CGC	L358365

Qualifiers/	*	Outside QC limit	B	Analyte detected in blank
Definitions	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701

AOC, LLC

Mr. Darrell Richardson

950 Highway 57 East

Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017

Received : 11/15/2017

Report Number : **17-319-0239**

REPORT OF ANALYSIS

Lab No : **92462**

Sample ID : **Outfall 01A Comp 2**

Matrix: **Aqueous**

Sampled: **11/15/2017 10:30**

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Method
Biochemical Oxygen Demand (5-day)	<60	mg/L	60	60	1	11/15/17 12:00	SNB	5210B-2011
Chromium, Hexavalent	<0.002	mg/L	0.002	0.010	1	11/15/17 10:25	TKM	3500CrB-2011
Chromium, Tri-valent	<0.002	mg/L	0.002	0.010	1	11/15/17 10:25		CALCULATION~
Cyanide, Total	<0.003	mg/L	0.003	0.005	1	11/16/17 09:40	CJR	4500CNE-2011
Total Suspended Solids	1020	mg/L	7	7	1	11/16/17 15:00	CxC	2540D-2011
Total Chromium	<0.001	mg/L	0.001	0.005	1	11/28/17 02:30	KKM	EPA-200.7
Total Copper	0.006	mg/L	0.002	0.005	1	11/28/17 02:30	KKM	EPA-200.7
Total Lead	<0.003	mg/L	0.003	0.006	1	11/28/17 02:30	KKM	EPA-200.7
Total Nickel	<0.002	mg/L	0.002	0.005	1	11/28/17 02:30	KKM	EPA-200.7
Total Zinc	0.053	mg/L	0.002	0.010	1	11/28/17 02:30	KKM	EPA-200.7

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701

AOC, LLC

Mr. Darrell Richardson

950 Highway 57 East

Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017

Received : 11/15/2017

Report Number : 17-319-0239

REPORT OF ANALYSIS

Lab No : 92462

Matrix: Aqueous

Sample ID : Outfall 01A Comp 2

Sampled: 11/15/2017 10:30

Analytical Method: 624 Prep Batch(es): L357814 11/16/17 09:18 L358729 11/22/17 08:51
Prep Method: EPA-624 (PREP)

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Acrylonitrile	<0.0028	mg/L	0.0028	0.0200	1	11/16/17 17:12	MKD	L357816
Benzene	0.0008 J	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816
Carbon Tetrachloride	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 17:12	MKD	L357816
Chlorobenzene	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 17:12	MKD	L357816
Chloroethane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816
Chloroform	<0.0005	mg/L	0.0005	0.0010	1	11/16/17 17:12	MKD	L357816
Chloromethane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816
1,2-Dichlorobenzene	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 17:12	MKD	L357816
1,3-Dichlorobenzene	<0.0009	mg/L	0.0009	0.0010	1	11/16/17 17:12	MKD	L357816
1,4-Dichlorobenzene	<0.0007	mg/L	0.0007	0.0010	1	11/16/17 17:12	MKD	L357816
1,1-Dichloroethane	<0.0004	mg/L	0.0004	0.0010	1	11/16/17 17:12	MKD	L357816
1,2-Dichloroethane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816
1,1-Dichloroethylene	<0.0004	mg/L	0.0004	0.0010	1	11/16/17 17:12	MKD	L357816
trans-1,2-Dichloroethylene	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816
1,2-Dichloropropane	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816
cis-1,3-Dichloropropene	<0.0005	mg/L	0.0005	0.0010	1	11/16/17 17:12	MKD	L357816
trans-1,3-Dichloropropene	<0.0007	mg/L	0.0007	0.0010	1	11/16/17 17:12	MKD	L357816
1,3-Dichloropropene (Total)	<0.0005	mg/L	0.0005	0.0010	1	11/16/17 17:12		L357816
Ethylbenzene	0.162	mg/L	0.0078	0.0100	10	11/22/17 16:49	ELM	L358730
Methylene Chloride	<0.0021	mg/L	0.0021	0.0100	1	11/16/17 17:12	MKD	L357816
Tetrachloroethylene	<0.0006	mg/L	0.0006	0.0010	1	11/16/17 17:12	MKD	L357816
Toluene	<0.0011	mg/L	0.0011	0.0050	1	11/16/17 17:12	MKD	L357816

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

03701
AOC, LLC
Mr. Darrell Richardson
950 Highway 57 East
Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017
Received : 11/15/2017

Report Number : 17-319-0239

REPORT OF ANALYSIS

Lab No : 92462
Sample ID : Outfall 01A Comp 2

Matrix: Aqueous
Sampled: 11/15/2017 10:30

Analytical Method: 624		Prep Batch(es): L357814		11/16/17 09:18		L358729		11/22/17 08:51	
Prep Method: EPA-624 (PREP)									
Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch	
1,1,1-Trichloroethane	<0.0006	mg/L	0.0006	0.0010	1	11/16/17 17:12	MKD	L357816	
1,1,2-Trichloroethane	<0.0008	mg/L	0.0008	0.0010	1	11/16/17 17:12	MKD	L357816	
Trichloroethylene	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816	
Vinyl Chloride	<0.0003	mg/L	0.0003	0.0010	1	11/16/17 17:12	MKD	L357816	
Surrogate: 4-Bromofluorobenzene	94.8		Limits: 71-131%		1	11/16/17 17:12	MKD	L357816	
Surrogate: Dibromofluoromethane	96.8		Limits: 70-128%		1	11/16/17 17:12	MKD	L357816	
Surrogate: 1,2-Dichloroethane - d4	123		Limits: 67-136%		1	11/16/17 17:12	MKD	L357816	
Surrogate: Toluene-d8	93.2		Limits: 70-130%		1	11/16/17 17:12	MKD	L357816	
Surrogate: 4-Bromofluorobenzene	95.6		Limits: 71-131%		10	11/22/17 16:49	ELM	L358730	
Surrogate: Dibromofluoromethane	109		Limits: 70-128%		10	11/22/17 16:49	ELM	L358730	
Surrogate: 1,2-Dichloroethane - d4	121		Limits: 67-136%		10	11/22/17 16:49	ELM	L358730	
Surrogate: Toluene-d8	97.4		Limits: 70-130%		10	11/22/17 16:49	ELM	L358730	

Analytical Method: 625
Prep Method: 625
Prep Batch(es): L358258 11/20/17 14:15

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch	
Acenaphthene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 19:41	CGC	L358365	
Acenaphthylene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 19:41	CGC	L358365	
Anthracene	<0.0005	mg/L	0.0005	0.002	1	11/22/17 19:41	CGC	L358365	
Benzo(a)anthracene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 19:41	CGC	L358365	
Benzo(a)pyrene	<0.0008	mg/L	0.0008	0.002	1	11/22/17 19:41	CGC	L358365	
3,4-Benzofluoranthene	<0.0005	mg/L	0.0005	0.002	1	11/22/17 19:41	CGC	L358365	

Qualifiers/ Definitions	*	Outside QC limit	B	Analyte detected in blank
	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

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Project Outfall 01A
Information :

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REPORT OF ANALYSIS

Lab No : 92462

Matrix: Aqueous

Sample ID : Outfall 01A Comp 2

Sampled: 11/15/2017 10:30

Analytical Method: 625 Prep Batch(es): L358258 11/20/17 14:15

Prep Method: 625

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
Benzo(k)fluoranthene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 19:41	CGC	L358365
Bis(2-ethylhexyl)phthalate	<0.0003	mg/L	0.0003	0.010	1	11/22/17 19:41	CGC	L358365
Chrysene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 19:41	CGC	L358365
Diethyl phthalate	<0.0002	mg/L	0.0002	0.005	1	11/22/17 19:41	CGC	L358365
Dimethyl phthalate	<0.0002	mg/L	0.0002	0.005	1	11/22/17 19:41	CGC	L358365
2,4-Dimethylphenol	<0.0003	mg/L	0.0003	0.005	1	11/22/17 19:41	CGC	L358365
Di-n-butyl phthalate	<0.0006	mg/L	0.0006	0.005	1	11/22/17 19:41	CGC	L358365
4,6-Dinitro-o-cresol	<0.002	mg/L	0.002	0.010	1	11/22/17 19:41	CGC	L358365
2,4-Dinitrophenol	<0.002	mg/L	0.002	0.005	1	11/22/17 19:41	CGC	L358365
Fluoranthene	<0.0005	mg/L	0.0005	0.002	1	11/22/17 19:41	CGC	L358365
Fluorene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 19:41	CGC	L358365
Hexachlorobenzene	<0.0006	mg/L	0.0006	0.005	1	11/22/17 19:41	CGC	L358365
Hexachlorobutadiene	<0.0002	mg/L	0.0002	0.005	1	11/22/17 19:41	CGC	L358365
Hexachloroethane	<0.0002	mg/L	0.0002	0.005	1	11/22/17 19:41	CGC	L358365
Naphthalene	<0.0003	mg/L	0.0003	0.002	1	11/22/17 19:41	CGC	L358365
Nitrobenzene	<0.0002	mg/L	0.0002	0.005	1	11/22/17 19:41	CGC	L358365
2-Nitrophenol	<0.0004	mg/L	0.0004	0.005	1	11/22/17 19:41	CGC	L358365
4-Nitrophenol	<0.0006	mg/L	0.0006	0.020	1	11/22/17 19:41	CGC	L358365
Phenanthrene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 19:41	CGC	L358365
Phenol	<0.0002	mg/L	0.0002	0.005	1	11/22/17 19:41	CGC	L358365
Pyrene	<0.0002	mg/L	0.0002	0.002	1	11/22/17 19:41	CGC	L358365

Qualifiers/	*	Outside QC limit	B	Analyte detected in blank
Definitions	DF	Dilution Factor	J	Estimated value
	MQL	Method Quantitation Limit		

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AOC, LLC

Mr. Darrell Richardson

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Collierville, TN 38017

Project Outfall 01A
Information :

Report Date : 11/28/2017

Received : 11/15/2017

Report Number : **17-319-0239**

REPORT OF ANALYSIS

Lab No : **92462**

Sample ID : **Outfall 01A Comp 2**

Matrix: **Aqueous**

Sampled: **11/15/2017 10:30**

Analytical Method: 625

Prep Batch(es): L358258 11/20/17 14:15

Prep Method: 625

Test	Results	Units	MDL	MQL	DF	Date / Time Analyzed	By	Analytical Batch
1,2,4-Trichlorobenzene	<0.0003	mg/L	0.0003	0.005	1	11/22/17 19:41	CGC	L358365
Surrogate: 2-Fluorobiphenyl	19.8 *		Limits: 38-107%		1	11/22/17 19:41	CGC	L358365
Surrogate: 2-Fluorophenol	19.5		Limits: 8-88%		1	11/22/17 19:41	CGC	L358365
Surrogate: Nitrobenzene-d5	16.6 *		Limits: 29-105%		1	11/22/17 19:41	CGC	L358365
Surrogate: Phenol-d6	15.7		Limits: 7-58%		1	11/22/17 19:41	CGC	L358365
Surrogate: 4-Terphenyl-d14	28.3 *		Limits: 30-130%		1	11/22/17 19:41	CGC	L358365
Surrogate: 2,4,6-Tribromophenol	24.7		Limits: 16-138%		1	11/22/17 19:41	CGC	L358365

Qualifiers/ Definitions

*	Outside QC limit	B	Analyte detected in blank
DF	Dilution Factor	J	Estimated value
MQL	Method Quantitation Limit		

Cooler Receipt Form

Customer Number: **03701**
Customer Name: **AOC, LLC**
Report Number: **17-319-0239**

Shipping Method

☐ Fed Ex ☐ US Postal ☐ Lab ☐ Other :
☐ UPS ☒ Client ☐ Courier Thermometer ID: #26

Shipping container/cooler uncompromised? ☒ Yes ☐ No

Number of coolers received

Custody seals intact on shipping container/cooler? ☐ Yes ☐ No ☒ Not Required

Custody seals intact on sample bottles? ☐ Yes ☐ No ☒ Not Required

Chain of Custody (COC) present? ☒ Yes ☐ No

COC agrees with sample label(s)? ☒ Yes ☐ No

COC properly completed ☒ Yes ☐ No

Samples in proper containers? ☒ Yes ☐ No

Sample containers intact? ☒ Yes ☐ No

Sufficient sample volume for indicated test(s)? ☒ Yes ☐ No

All samples received within holding time? ☒ Yes ☐ No

Cooler temperature in compliance? ☒ Yes ☐ No

Cooler/Samples arrived at the laboratory on ice.
Samples were considered acceptable as cooling process had begun. ☒ Yes ☐ No

Water - Sample containers properly preserved ☒ Yes ☐ No ☐ N/A

Water - VOA vials free of headspace ☒ Yes ☐ No ☐ N/A

Trip Blanks received with VOAs ☐ Yes ☒ No ☐ N/A

Soil VOA method 5035 – compliance criteria met ☐ Yes ☐ No ☒ N/A

☐ High concentration container (48 hr) ☐ Low concentration EnCore samplers (48 hr)

☐ High concentration pre-weighed (methanol -14 d) ☐ Low conc pre-weighed vials (Sod Bis -14 d)

Special precautions or instructions included? ☐ Yes ☒ No

Comments:

Signature:

Date & Time:



Kit ID:	0000089284
Initiated By:	Randy Thomas
Initiated Date:	11/10/2017
Project Comment	

CHAIN-OF-CUSTODY

Company Name AOC, LLC		Company Number 03701		Client Project Manager/Contact Mr. Darrell Richardson		Purchase Order Number	
Site Name		Project Number		☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed		Method of Shipment ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	
LIMS Project ID AOC - Outfall 01A		Project Manager Phone #		Project Manager Email DRichardson@aoc-resins.com		Site/Facility ID #	

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
11/15/17	1000	01A-Comp. 1	Aqueous	G	3	Glass Vial Amber - 40ml	HCL - Hydrochloric Acid	VOC
			Aqueous	G	2	Glass Amber - Liter	Na2S2O3 - Sodium Thiosulfate	SVOC
			Aqueous	G	1	Plastic - Quart	NONE	BOD/TSS/CRX/CRIII
			Aqueous	G	1	Plastic - Pint	NaOH - Sodium Hydroxide	CNT
			Aqueous	G	1	Plastic - Pint	HNO3 - Nitric Acid	Cr/Cu/Pb/Ni/Zn

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments				
Ice Y/N	Custody Seals Y/N	Lab Comments	<i>Darrell Richardson</i>					
			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
			Relinquished by: (SIGNATURE)					
			Relinquished by: (SIGNATURE)					

Blank/Cooler Temp
4.7°C (T26) (TP)

11/15/17 1100

J. Smith 11-15-17 11:00



AOC, LLC
Outfall 01A

17-319-0239
03701
11-15-2017
11:37:23

CHAIN-OF-CUSTODY

Kit ID:	0000089284
Initiated By:	Randy Thomas
Initiated Date:	11/10/2017
Project Comment	

Company Name AOC, LLC		Company Number 03701		Client Project Manager/Contact Mr. Darrell Richardson		Purchase Order Number	
Site Name		Project Number		☐ RUSH – Additional charges apply ☐ Special Detection Limits(s) Date Results Needed		Method of Shipment ☐ Fed Ex ☐ UPS ☐ USPS ☐ Courier ☐ Client Drop Off Other	
LIMS Project ID AOC - Outfall 01A		Project Manager Phone #		Project Manager Email DRichardson@aoc-resins.com		Site/Facility ID #	

Date	Time	Sample ID	Matrix	Grab/Comp	# of Cont	Container Type	Preservation	Analyses
11/15/17	1030	OIA-Comp. 2	Aqueous	G	3	Glass Vial Amber - 40ml	HCL - Hydrochloric Acid	VOC
			Aqueous	G	2	Glass Amber - Liter	Na2S2O3 - Sodium Thiosulfate	SVOC
			Aqueous	G	1	Plastic - Quart	NONE	BOD/TSS/CRX/CRH
			Aqueous	G	1	Plastic - Pint	NaOH - Sodium Hydroxide	CNT
			Aqueous	G	1	Plastic - Pint	HNO3 - Nitric Acid	Cr/Cu/Pb/Ni/Zn

For Laboratory Use Only			Sampled by (Name - Print)		Client Remarks/Comments			
Ice Y/N	Custody Seals Y/N	Lab Comments	Darrell Richardson					
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		
			Relinquished by: (SIGNATURE)	Date Time	Received by: (SIGNATURE)	Date Time		

Blank/Cooler Temp
4.2°C (T2) (TP)

11/15/17 11:00

11-15-17 11:00