APPLICATION SUMMARY

UPDATED APPLICATION SUMMARY

El Dorado Chemical Company (EDCC) manufactures ammonium nitrate, ammonia, nitric acid, and sulfuric acid at a facility located in El Dorado, Arkansas. The facility is currently permitted through the Arkansas Department of Energy and Environment – Division of Environmental Quality (DEQ), National Pollutant Discharge Elimination System (NPDES) Permit No. AR0000752. EDCC submitted a complete permit renewal application in March 2022.

Excessive rain events in 2022 lead to a review of current operational practices and the design of Lake Kildeer. It was determined that Lake Kildeer was originally designed and constructed with an earthen emergency overflow structure that was never permitted. The overflow structure has since become overgrown in recent years.

EDCC is amending the current renewal application in order to request the addition of Outfall 009 to the existing permit. EDCC intends to restore the overflow structure to its original design and function. The emergency overflow (Outfall 009) would only be utilized during times of extreme weather events when discharging from Outfalls 010 and 001 cannot maintain appropriate pond levels.

Please note that only those portions of the original application that were changed as a result of the above request is being re-submitted. All sampling data referenced in the revised application is reflective of the original application.

FORM 1

ARKANSAS
ENERGY & ENVIRONMENT

NPDES Individual Permit Application

Form 1

5301 Northshore Drive
North Little Rock, AR 72118-5317

PURPOSE OF THIS APPLICATION (check all that apply)

- ☐ INITIAL APPLICATION FOR NEW FACILITY
- ☐ INITIAL APPLICATION FOR EXISTING FACILITY
- ☐ MODIFICATION OF EXISTING PERMIT
- ☒ RENEWAL OF EXISTING PERMIT
- ☐ REVOKE AND REISSUE OF EXISTING PERMIT
- ☐ CONSTRUCTION PERMIT

SECTION A - GENERAL INFORMATION

A.1. Legal Applicant Name: El Dorado Chemical Company

A.2. Operator Type: Corporation

A.3. Corporation? ☒ Yes ☐ No → Skip to A.4

State of Incorporation, if not Arkansas: Oklahoma

Attach a Proof/Status of Good Standing from Arkansas Secretary of State and from the state of incorporation, if applicable.

A.4. Facility Name: El Dorado Chemical Company

A.5. Is the applicant identified in A.1, the owner of the facility? ☒ Yes → Skip to A.6 ☐ No

Owner of the facility:

A.6. Is there an outstanding state construction permit for this facility that needs to be terminated?

☐ Yes ☒ No → Skip to A.7

A state construction permit can be terminated by submitting Notice of Completion of Construction for State Construction Permits found through the link below:

https://www.adeq.state.ar.us/water/permits/npdes/individual/pdfs/state-construction-permit-completion-of-construction.pdf

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

A.7. Indicate below any NPDES permits issued by DEQ to this facility, if applicable. (Check all that apply and list the corresponding permit number for each.)

NPDES permits issued by DEQ		
☒ NPDES Individual Discharge Permit AR0000752	☐ NPDES Non-Stormwater General Permit ARG_____	☒ NPDES Industrial Stormwater General Permit ARR001595

A.8. List permit numbers and/or names of any permits issued by DEQ or EPA for an activity located in Arkansas that is presently held by the applicant or its parent or subsidiary corporation which are not listed above:

Permit Number	**Held by**
0573-AOP-R24	El Dorado Chemical Company
ARD001700657	El Dorado Chemical Company
AR0050296	City of El Dorado, Lion Oil, LANXESS Corporation, El Dorado Chemical Company
_____	_____

A.9. Is the facility required to file a disclosure statement?

☒ Yes, one has been attached ☐ Exempt

The disclosure statement form may be obtained from the DEQ web site at:

https://www.adeq.state.ar.us/ADEQ_Disclosure_Statement.pdf

A.10. Facility Physical Location. Attach a location map.

Street address 4500 North West Avenue			
City or town El Dorado	State AR	ZIP code 71730	County Union - 70

Front Door (gate) location of the facility.

Latitude:	33°	15’	58.75’
Longitude:	92°	40’	58.75”

A.11. Mailing Address for permit, DMR, and invoices (Street or Post Office Box):

Street Address 4500 North West Ave			P.O. Box _____
City or town El Dorado	State AR	ZIP code 71730	

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

A.12. Neighboring States Within 20 Miles of the permitted facility (Check all that apply):

☒ Louisiana ☐ Mississippi ☐ Missouri
☐ Oklahoma ☐ Tennessee ☐ Texas

A.13. Standard Industrial Classification (SIC) code and North America Industrial Classification System (NAICS) code for primary process and secondary process if applicable.

Primary SIC	Primary NAICS
2873	325311

Secondary SIC ☒ N/A	Secondary NAICS ☒ N/A
_____	_____

A.14. Responsible Official (as described on the last page of this application):

Name (First and Last)	Title
Derek Turner	General Manager
E-mail Address	**Phone Number**
dturner@lsbindustries.com	870-863-1400

A.15. Cognizant Official (Duly Authorized Representative as described on the last page of this application):

Name (First and Last)	Title
Charles McDowell	Environmental Leader
E-mail Address	**Phone Number**
cmcdowell@lsbindustries.com	870-863-1400

A.16. Did a consulting firm prepare this application?

☒ Yes ☐ No → Skip to A.17

Contact Name (First and Last)	Title	
Amanda Gallagher	Environmental Engineer	
Company Name		
Alliance Technical Group		
E-mail Address		Phone Number
amanda.gallagher@alliancetg.com		501-847-7077
Street Address		
219 Brown Lane		
City or town	State	ZIP Code
Bryant	AR	72022

NPDES Permit Number	AFIN	Facility Name	County
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A.17. Wastewater Operator Information

Name (First and Last)	**License Number**	**Municipal Wastewater Operator**	**Industrial Wastewater Operator**
Eddie Pearson	011898	Class I	Basic
_____	_____	Class Choose an item.	Choose an item.
_____	_____	Class Choose an item.	Choose an item.
_____	_____	Class Choose an item.	Choose an item.

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

SECTION B - OUTFALL INFORMATION

B.1. Outfall Information (If more than two outfalls, attach additional pages)

Outfall 001								
Design Flow N/A MGD				Highest Monthly Average flow over the last two years 4.42 MGD (January 2023)				
End-of-Pipe Location:	Latitude:	33°	15’	33.8” N	Longitude:	92°	41’	14.2” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	15’	33.8” N	Longitude:	92°	41’	14.2” W
Name of Receiving Stream								
An unnamed tributary of Flat Creek, thence to Flat Creek, thence to Haynes Creek, thence to Smackover Creek, and thence to the Ouachita River in Segment 2D of the Ouachita River Basin								
Treatment system (Include all components of the treatment system and attach a process flow diagram):								
pH neutralization, aeration pond, & equalization pond								
How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.								
☐ Grab ☐ Composite ☒ Both								
An automatic sampler is utilized to collect composite samples at Outfall 001.								
How is flow measured and where (relative to the process flow diagram)?								
Totalizing meter								
Is the outfall equipped with a diffuser? ☐ Yes ☒ No								
What is the diameter of the effluent pipe?								
24 inches								

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

Outfall 002								
Design Flow N/A MGD				Highest Monthly Average flow over the last two years 0.25 MGD (December 2023)				
End-of-Pipe Location:	Latitude:	33°	15’	45.3” N	Longitude:	92°	41’	20.3” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	15’	45.3” N	Longitude:	92°	41’	20.3” W

Name of Receiving Stream

An unnamed tributary of Flat Creek, thence to Flat Creek, thence to Haynes Creek, thence to Smackover Creek, and thence to the Ouachita River in Segment 2D of the Ouachita River Basin

Treatment system (Include all components of the treatment system and attach a process flow diagram):

pH neutralization and aeration pond

How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.

☐ Grab ☐ Composite ☒ Both

A portable automatic sampler is used to collect samples at the outfall.

How is flow measured and where (relative to the process flow diagram)?
Weir

Is the outfall equipped with a diffuser?
☐ Yes ☒ No

What is the diameter of the effluent pipe?

N/A inches

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

Outfall 003								
Design Flow 0.0017 MGD				Highest Monthly Average flow over the last two years 0.1303 MGD				
End-of-Pipe Location:	Latitude:	33°	15’	40.66’	Longitude:	92°	41’	9.67” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	15’	40.66’	Longitude:	92°	41’	9.67” W

Name of Receiving Stream

An unnamed tributary of Flat Creek, thence to Flat Creek, thence to Haynes Creek, thence to Smackover Creek, and thence to the Ouachita River in Segment 2D of the Ouachita River Basin

Treatment system (Include all components of the treatment system and attach a process flow diagram):

Imhoff tank and sand filter

How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.

☐ Grab ☐ Composite ☒ Both

A portable automatic sampler is used to collect samples at the outfall.

How is flow measured and where?

Weir

Is the outfall equipped with a diffuser?

☐ Yes ☒ No

What is the diameter of the effluent pipe?

N/A inches

Outfall 006

Design Flow
N/A MGD

Highest Monthly Average flow over the last two years
0.368 MGD

End-of-Pipe Location:	Latitude:	33°	16’	03’	Longitude:	92°	41’	02” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	16’	1.01’	Longitude:	92°	41’	3.02” W

Name of Receiving Stream

An unnamed tributary of Flat Creek, thence to Flat Creek, thence to Haynes Creek, thence to Smackover Creek, and thence to the Ouachita River in Segment 2D of the Ouachita River Basin.

Treatment system (Include all components of the treatment system and attach a process flow diagram):

None

How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.

☐ Grab ☐ Composite ☒ Both

Grab samples are collected at the Outfall.

How is flow measured and where?

Parshall flume with totalizing meter.

Is the outfall equipped with a diffuser?

☐ Yes ☒ No

What is the diameter of the effluent pipe?

N/A inches

NPDES Permit Number	AFIN	Facility Name	County
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Outfall 007								
Design Flow N/A MGD				Highest Monthly Average flow over the last two years 0.364 MGD				
End-of-Pipe Location:	Latitude:	33°	16’	11’	Longitude:	92°	41’	16” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	16’	6.27’	Longitude:	92°	41’	15.88” W

Name of Receiving Stream

An unnamed tributary of Flat Creek, thence to Flat Creek, thence to Haynes Creek, thence to Smackover Creek, and thence to the Ouachita River in Segment 2D of the Ouachita River Basin.

Treatment system (Include all components of the treatment system and attach a process flow diagram):

None

How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.

☐ Grab ☐ Composite ☒ Both

Grab samples are collected at the Outfall.

How is flow measured and where?
Parshall flume with totalizing meter.

Is the outfall equipped with a diffuser?
☐ Yes ☒ No

What is the diameter of the effluent pipe?

N/A inches

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

Outfall 009 Lake Kildeer Emergency Overflow								
Design Flow N/A MGD				Highest Monthly Average flow over the last two years N/A MGD (New Outfall)				
End-of-Pipe Location:	Latitude:	33°	15’	18.2” N	Longitude:	92°	41’	27.3” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	15’	18.2” N	Longitude:	92°	41’	27.3” W

Name of Receiving Stream

An unnamed tributary of Flat Creek, thence to Flat Creek, thence to Haynes Creek, thence to Smackover Creek, and thence to the Ouachita River in Segment 2D of the Ouachita River Basin

Treatment system (Include all components of the treatment system and attach a process flow diagram):

pH neutralization, aeration pond, & equalization pond

How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.

☒ Grab ☐ Composite ☐ Both

This is a new outfall location and sample type is unknown. Samples will be collected at overflow structure.

How is flow measured and where (relative to the process flow diagram)?
Estimated.

Is the outfall equipped with a diffuser?
☐ Yes ☒ No

What is the diameter of the effluent pipe?

N/A inches

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

Outfall 010								
Design Flow N/A MGD				Highest Monthly Average flow over the last two years 1.98 MGD				
End-of-Pipe Location:	Latitude:	33°	15’	32.6” N	Longitude:	92°	41’	14.4” W
Monitoring Location (If different from End-of-Pipe Location:	Latitude:	33°	15’	32.6” N	Longitude:	92°	41’	14.4” W

Name of Receiving Stream

Via joint pipeline to the Ouachita River. Approximately 13.9 miles east of EDCC, on the Ouachita River

Treatment system (Include all components of the treatment system and attach a process flow diagram):

pH neutralization, aeration pond, & equalization pond

How and where are effluent samples collected? Include a narrative description of where samples are collected relative to the treatment system.

☐ Grab ☐ Composite ☒ Both

An automatic sampler is utilized to collect composite samples at Outfall 010 prior to discharge to the Joint Pipeline.

How is flow measured and where (relative to the process flow diagram)?
Totalizing meter

Is the outfall equipped with a diffuser?
☐ Yes ☒ No

What is the diameter of the effluent pipe?

N/A inches

B.2. Describe how influent is collected and conveyed to the treatment system.

Series of ditches and piping.

B.3. Are you a publicly owned treatment works?

☐ Yes ☒ No → Skip to B.4

If "Yes", complete the table below:

Pollutant	Maximum Daily Influent		Average Daily Influent		
	Value	Units	Value	Units	Number of Samples*
$CBOD_5/BOD_5$					
TSS					
How and where were the influent samples collected? Include a narrative description of where samples are collected relative to the treatment system.					
_____					
_____					
☐ Grab ☐ Composite ☐ Both					

* At a minimum, influent testing data must be based on at least three samples taken within 4.5 years prior to the date of the permit application. Existing data may be used, if available, in lieu of sampling done solely for the purpose of this application

Attach the laboratory report for the $CBOD_5/BOD_5$ and TSS tests.

B.4. Attach a process flow diagram.

B.5. Attach a topographic map extending at least one mile beyond the property boundary with the discharge location(s) marked with this application.

B.6. Is the proposed or existing facility located above the 100-year flood level?

☒ Yes ☐ No

If "No", what measures are (or will be) used to protect the facility? _____

Has a FEMA map been submitted with a previous application?

☒ Yes ☐ No

If "No", a FEMA map must be submitted with this application as an attachment.

B.7. Population served for Municipal or Domestic Sewer Systems: N/A

NPDES Permit Number	AFIN	Facility Name	County
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B.8. Backup Power Generation for Treatment Plants

Are there any permanent backup generators? ☐ Yes ☒ No

If Yes, how many? _____ Total Horsepower (hp)? _____

If No, check all that apply.

☐ Portable generator is available.
☐ The WWTP does not require power to operate.
☒ Operations at the facility will cease if power is not available.
☒ The WWTP has sufficient capacity to hold influent until power is restored.
☐ Other, please explain. _____

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

SECTION C - WASTE STORAGE AND DISPOSAL INFORMATION

C.1. Are solids/sludge produced at this facility?

☒ Yes ☐ No → Skip to Section D

C.2. Do solids/sludge remain in treatment lagoon(s)?

☐ Yes ☒ No → Skip to C.3

How many lagoon(s)? _____ How old is the lagoon(s)? _____

Has sludge depth been measured? ☐ Yes ☐ No

If yes, when was it measured (MM/YYYY)? _____ Average sludge depth? _____ ft.

If no, when will it be measured? _____

Has sludge ever been removed? ☐ Yes ☐ No

If yes, when was it removed (MM/YYYY)? _____

C.3. Are solids/sludge disposed at a landfill?

☐ Yes ☒ No → Skip to C.4

Is the Landfill located in Arkansas? ☐ Yes ☐ No

If Yes, what is the DEQ solid waste permit issued to the landfill? Permit No. _____

If No, which state? State: _____

Provide the solid waste permit Permit No. _____

C.4. Are solids/sludge disposed by land application?

☐ Yes ☒ No → Skip to C.5

Is the land application site located in Arkansas? ☐ Yes ☐ No

If Yes, what is the DEQ state permit issued to the land application site? _____

If No, what state and their state permit? State: _____ Permit No. _____

C.5. Are solids/sludge disposed by septic tank?

☐ Yes ☒ No → Skip to C.6

Arkansas Department of Health Permit No. _____

C.6. Are solids/sludge distributed and marketed?

☐ Yes ☒ No → Skip to C.7

Company Name receiving solids/sludge		
E-mail Address		Phone Number
Street Address		
City or town	State	ZIP Code
Distributed by (check all that applies) ☐ Pipe ☐ Rail ☐ Truck ☐ Other _____		

C.7. Are solids/sludge disposed by sludge storage lagoon? (Lagoon for which the sole purpose is storing sludge):

☐ Yes ☒ No → Skip to C.8

How many lagoon(s)? _____ How old is the lagoon(s)? _____ years

Total surface area of lagoon(s)? _____ acre

Has sludge depth been measured? ☐ Yes ☐ No

If yes, when was it measured (MM/YYYY)? _____Average depth? _____ ft.

If no, when will it be measured? _____

Has sludge ever been removed? ☐ Yes ☐ No

If yes, when was it removed (MM/YYY)? _____

Does lagoon(s) have a liner? ☐ Yes ☐ No

C.8. Are solids/sludge disposed by incineration?

☐ Yes ☒ No → Skip to C.9

Company Name	
E-mail Address	Phone Number

Street Address		
City or town	State	ZIP Code

C.9. Are solids/sludge disposed by **Other** method? (Provide complete description)

Septic tanks are pumped as needed by a license septic tank hauler. Solids are removed from Lake Lee and Lake Kildeer as needed basis and disposed of in a DEQ permitted facility.

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SECTION D - WATER SUPPLY

D.1. Are there any water supply sources which are downstream of the outfall location, i.e., those which could be affected by the discharge from this facility?

☒ Yes ☐ No → Skip to Section E

D.2. Is the water supply source subsurface water?

☒ Yes ☐ No → Skip to D.3

Private Well?

☒ Yes ☐ No

Distance from discharge point: ☐ Within 5 miles ☒ Within 50 miles

Municipal Water Utility?

☒ Yes ☐ No

City or town See Water Supply Sources Attachment

Distance from discharge point: ☒ Within 5 miles ☒ Within 50 miles

D.3. Is the water supply source surface water

☒ Yes ☐ No → Skip to D.4

Distance from discharge point: ☐ Within 5 miles ☒ Within 50 miles

D.4. **Other** (Provide complete description)

See Water Supply Sources Attachment

Distance from discharge point: ☐ Within 5 miles ☐ Within 50 miles

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

SECTION E - TRUST FUND REQUIREMENTS

E.1. Is the facility considered a "nonmunicipal domestic sewage treatment works" (NDSTW) as defined in Ark. Code Ann. 8-4-203(b)?

☐ Yes ☒ No

If "yes", a completed NDSTW trust fund form must be submitted. The trust fund form may be obtained from the DEQ web site at:

http://www.adeq.state.ar.us/water/permits/npdes/individual/pdfs/ndstw-trust-fund-certification-form.pdf

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

SECTION F - INDUSTRIAL ACTIVITY

F.1. Is this facility subject to an effluent limit guideline?

☒Yes ☐ No → Skip to Section G

F.2. 40 CFR reference for applicable effluent limit guidelines418

List all applicable Subpart(s) B, D, E

F.3. Description of all operations at this facility including primary products or services (attach additional sheets if necessary):

EDCC produces ammonia, ammonium nitrate, nitric acid, and sulfuric acid.
_____
_____

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

SECTION G - MODIFICATION AND CONSTRUCTION INFORMATION

G.1. Was "Modification of existing permit" or "Construction permit" checked off on **Purpose of this Application**? (Above Section A - General Information)

☐ Yes ☒ No → Skip to Section H

G.2. List proposed changes at the facility.

____
____
____

G.3. If this application is for a State Construction permit, please note that, in accordance with Rule 6.202, plans and specifications and design calculations must be stamped and signed by a **Registered Professional Engineer in the State of Arkansas**. The basic design criteria for wastewater treatment plants in the State of Arkansas should be based on the latest edition of the "Recommended Standards for Sewage Works," published by the Great Lakes-Upper Mississippi Board of State Sanitary Engineers known as 10 States Standards, with few modifications. Exception to the criteria will only be approved by DEQ when fully justified. A comprehensive list of exceptions to 10 State Standards is listed in Rule 6.202(B) and can be viewed here: https://www.adeq.state.ar.us/regs/files/reg06_final_150918.pdf

Checklist
☐ Professional Engineer registered in the State of Arkansas
☐ Design calculations signed and stamped, attached
☐ Plans and drawing signed and stamped, attached
☐ Specifications meet the 10 States Standards, except for those that are fully justified attached

G.4. In the case of construction, will the construction disturb one acre or more?

☐ Yes ☐ No → Skip to Section H

If the area disturbed is more than one acre up to, but not including, five acres, the facility is automatically covered under the Construction Stormwater General Permit ARR150000 and must comply with the terms and conditions of that permit.

If the area disturbed is five acres or more, a Construction Stormwater General Permit ARR150000 must be obtained by submitting a Notice of Intent and a Stormwater Pollution Prevention Plan to DEQ. The application information can be found here:

https://www.adeq.state.ar.us/water/permits/npdes/stormwater/

NPDES Permit Number	AFIN	Facility Name	County
AR0000752	70-00040	El Dorado Chemical	Union - 70

SECTION H: CHECKLIST AND SIGNATORY REQUIREMENTS

H.1. Mark the sections of Form 1 below that have been completed and are being submitted as part of the application. For each section, specify any attachments that will be enclosed. Note that not all applicants are required to provide all attachments.

Form 1 Section	Attachments
☒ Section A – General Information	☒ w/Proof of Good Standing from Arkansas Secretary of State ☒ w/Proof of Good Standing from State of Incorporation ☒ w/Notice of Completion of Construction for State Construction Permits ☒ w/Disclosure Statement ☒ w/location map
☒ Section B – Outfall Information	☒ w/additional outfall information ☒ w/topographic map extending at least one mile beyond the property boundary with the discharge location marked ☐ w/FEMA flood plain map ☒ w/process flow diagram
☒ Section C – Waste Storage and Disposal Information	
☒ Section D – Water Supply	
☒ Section E – Trust Fund Requirements	☐ w/Nonmunicipal Domestic Sewage Treatment Works Trust Fund Certification form
☒ Section F – Industrial Activity	
☒ Section G – Modification and Construction Information	☐ w/design calculations ☐ w/design specifications ☐ w/plans and drawing

H.2. Is an EPA Form necessary?

Purpose of this application	EPA Form needed?
☐ Initial Application for New Facility	Yes, see lists below
☐ Initial Application for Existing Facility	Yes, see lists below
☐ Modification of Existing Permit	No
☒ Renewal of Existing Permit	Yes, see lists below
☐ Revoke and Reissue of Existing Permit	Yes, see lists below
☐ Construction Permit	No

Check all boxes that are applicable

☐ EPA Form 2A – Municipal Dischargers
☐ EPA Form 2B – Concentrated Animal Feeding Operations
☒ EPA Form 2C – Existing Manufacturing, Commercial, Mining, and Silvicultural Operations
☐ EPA Form 2D – New Sources and New Dischargers Application for Permit to Discharge Process Wastewater
☒ EPA Form 2E – Facilities Which Do Not Discharge Process Wastewater (i.e. domestic, non-contact cooling water, etc)
☒ EPA Form 2F – Application for Permit to Discharge Stormwater Dischargers Associated with Industrial Activity

NPDES Permit Number	AFIN	Facility Name	County
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H.3. **Cognizant Official** (Duly Authorized Representative)

40 C.F.R. 122.22(b) states that all reports required by the permit, or other information requested by the Director, shall be signed by the applicant (or person authorized by the applicant) or by a duly authorized representative of that person. A person is duly authorized representative only if:

(1) The authorization is made in writing by the applicant (or person authorized by the applicant);
(2) The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity responsibility, or an individual or position having overall responsibility for environmental matters for the company.

The applicant hereby designates the following person as a Cognizant Official, or duly authorized representative, for signing reports, etc., including Discharge Monitoring Reports (DMR) required by the permit, and other information requested by the Director:

Print name (First and Last)	Official title	
Charles McDowell	Environmental Leader	
Signature	Date signed	Telephone number
	7 March 2023	870-863-1400

H.4. **Responsible Official**

"By my signature below, I certify that I met the requirement to be the signatory as defined in 40 C.F.R. § 122.22."

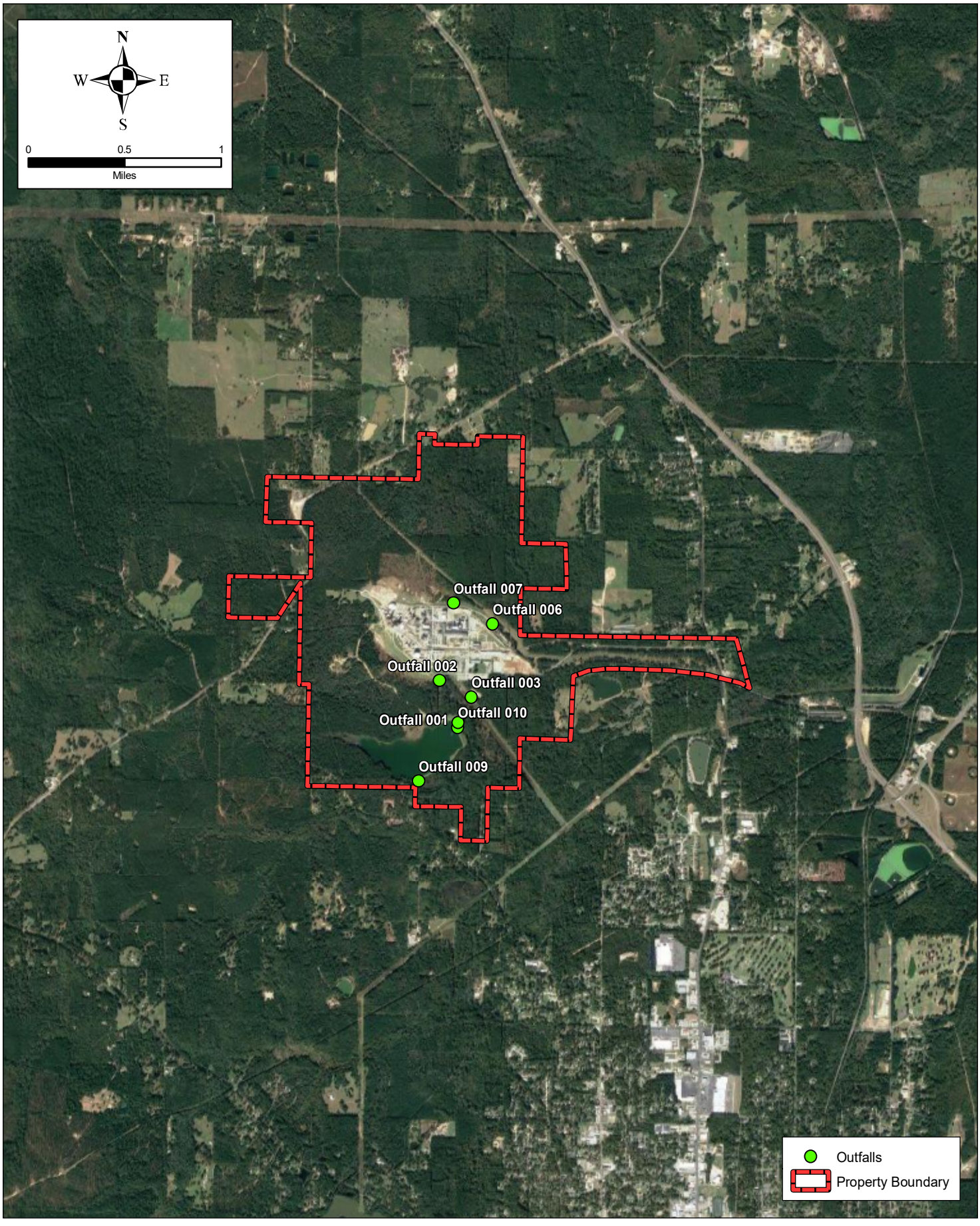
"By my signature below, I certify that the cognizant official designated above is qualified to act as a duly authorized representative under the provisions of 40 CFR 122.22(b)." NOTE: If no duly authorized representative is designated in this section, the Division considers the applicant to be the responsible official for the facility and only reports, etc., signed by the applicant will be accepted by the Division.

"By my signature below, I certify that, if this facility is a corporation, it is registered with the Secretary of State in Arkansas."

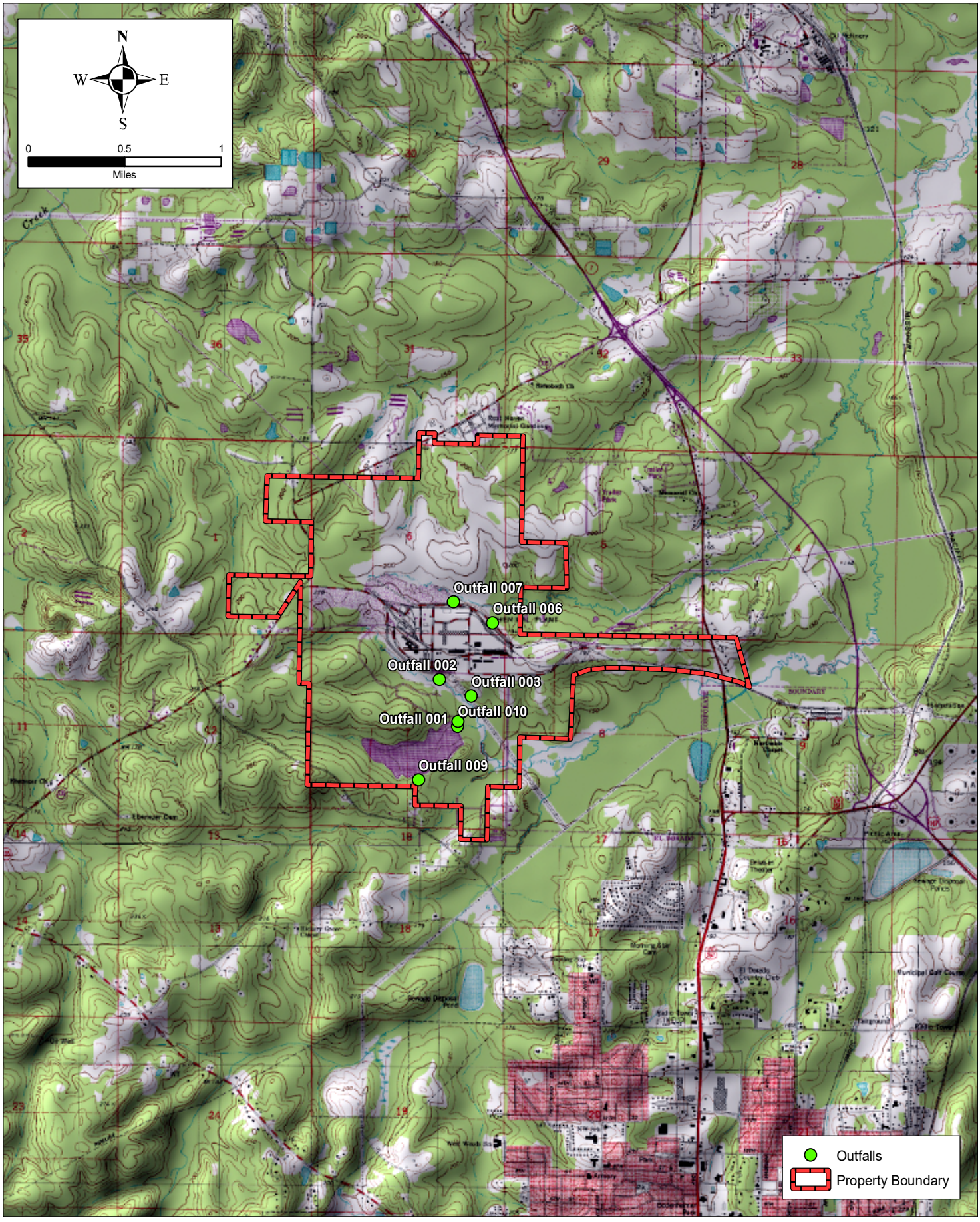
"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage 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 further certify under penalty of law that all analyses reported as less than detectable in this application or attachments thereto were performed using the EPA approved test method having the lowest detection limit for the substance tested."

Print name (First and Last)	Official title	
Derek Turner	General Manager	
Signature	Date signed	Telephone number
	3/7/23	870-863-1400

AREA MAPS



DESIGNED BY AAG CHECKED BY AAG APPR. BY AAG DRAWN BY IT	GBMc & ASSOCIATES	SHEET TITLE AERIAL PHOTOGRAPHY SITE MAP	JOB NAME EL DORADO CHEMICAL COMPANY EL DORADO, ARKANSAS	PROJECT NO. 2042-99-010 DATE 02/23/2023 SCALE SHOWN	REV. NO. DWG. NO.



DESIGNED BY AAG CHECKED BY AAG APPR. BY AAG DRAWN BY IT	GBMc & ASSOCIATES	SHEET TITLE TOPOGRAPHIC SITE MAP	JOB NAME EL DORADO CHEMICAL COMPANY EL DORADO, ARKANSAS	PROJECT NO. 2042-99-010 DATE 02/23/2023 SCALE SHOWN	REV. NO. DWG. NO.

FORM 2C

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
	AR0000752	El Dorado Chemical Company	

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 Tributary of Flat Creek	33° 15′ 33.8″ N	92° 41′ 14.2″ W
002	Unnamed Tributary of Flat Creek	33° 15′ 45.3″ N	92° 41′ 20.3″ W
See Note	for additional Outfalls.	° ′ ″	° ′ ″

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**** 001/002/009/010

Operations Contributing to Flow

Operation	Average Flow
Treated Process Wastewater	See Wastewater Source List Attachment
Stormwater Runoff	Variable 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
Nitric Acid, Sulfuric Acid, and Ammonia Manufacturing pH neutralization, aeration, and equalization	2K, 3B, 3G	
Steam Plant pH neutralization, aeration, and equalization	2K, 3B, 3G	
Groundwater Recovery Wells (#1 & #2) pH neutralization, aeration, and equalization	2K, 3B, 3G	
Ammonium Nitrate Prilling and Storage aeration and equalization	3B, 3G	

Note:

Outfall 010 Via Ouachita Joint Pipeline 33° 15' 32.6"N 92° 41' 14.4"W

Outfall 009 Unnamed Tributary of Flat Creek 33° 15' 18.2"N 92° 41' 27.3"W

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** 001/002/009/010 cont.

Operations Contributing to Flow

Operation	Average Flow
See Wastewater Source List Attachment	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
Ammonia Storage- aeration and equalization	3B, 3G	
Sanitary Wastewater from Septic Tanks aeration and equalization	3B, 3G	

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	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

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes ☐ No

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.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		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
		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
Fertilizer Manufacturing	Subpart B - Ammonia	40CFR418
Fertilizer Manufacturing	Subpart D - Ammonium Nitrate	40CFR418
Fertilizer Manufacturing	Subpart E - Nitric Acid	40CFR418

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 Nmber	Operation, Product, or Material	Quantity per Day	Unit of Measure
001,002,010	Ammonium Nitrate	1486	Tons
001,002,010	Ammonia	2067	Tons
001,002,010	Nitric Acid	See Below	Tons
	DMW-1	381	Tons
	DMW-2	1109	Tons
	NACSAC	88	Tons

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? *(optional item)*

☐ 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.)			
Fertilizer Manufacuring	☑ Volatile	☑ Acid	☑ Base/Neutral	☑ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide

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 *qualitative* 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.

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
Chronic WET Testing	Required by Permit	☑ Yes ☐ No	Quarterly with DMRs
		☐ 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	Eurofins (formerly American Interplex)		
Laboratory address	8600 Kanis Road Little Rock, AR 72204		
Phone number	(501) 224-5060		
Pollutant(s) analyzed	All		

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.

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

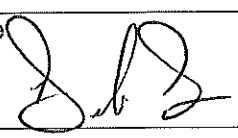
Checklist and Certification Statement

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/ explanation for identical outfalls
	☐	w/ small business exemption request	☐	w/ other attachments
	☑	w/ Table A	☑	w/ Table B
	☑	w/ Table C	☑	w/ Table D
	☑	w/ Table E	☐	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 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.

Name (print or type first and last name)	Official title
Derek Turner	General Manager
Signature 	Date signed 3/7/23

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OUTFALLS 001/009/010

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AR0000752	El Dorado Chemical Company	001/009/010

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 *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration	mg/L	8.8	2.9	2.2	24		
			Mass	lb/day	119.5	46.6	29.4	24		
2.	Chemical oxygen demand (COD)	☐	Concentration	mg/L	27	27	27	1		
			Mass	lb/day	240	N/A	N/A	1		
3.	Total organic carbon (TOC)	☐	Concentration	mg/L	8.2	N/A	N/A	1		
			Mass	lb/day	72.9	N/A	N/A	1		
4.	Total suspended solids (TSS)	☐	Concentration	mg/L	26.0	11.5	10.2	24		
			Mass	lb/day	418.4	179.7	132.9	24		
5.	Ammonia (as N)	☐	Concentration	mg/L	55.0	33.0	15.9	24		
			Mass	lb/day	493.7	250.4	190.0	24		
6.	Flow	☐	Rate	MGD	1.99	1.98	1.54	24		
7.	Temperature (winter)	☐	°C	°C	10.0	N/A	N/A	1		
	Temperature (summer)	☐	°C	°C	28.9	N/A	N/A	1		
8.	pH (minimum)	☐	Standard units	s.u.	6.12	6.12	NA	24		
	pH (maximum)	☐	Standard units	s.u.	8.14	8.14	NA	24		

[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).

Outfall 001 has not discharged during this permit cycle. Data for Outfall 010 is representative of Outfalls 001 and 009.

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AR0000752	El Dorado Chemical Company	001/009/010

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	See PPS Form					
					Mass						
1.2	Arsenic, total (7440-38-2)	☑	☑	☐	Concentration	See PPS Form					
					Mass						
1.3	Beryllium, total (7440-41-7)	☑	☐	☑	Concentration	See PPS Form					
					Mass						
1.4	Cadmium, total (7440-43-9)	☑	☑	☐	Concentration	mg/L	0.001	0.001	0.001	24	
					Mass	lb/day	0.008	0.008	0.007	24	
1.5	Chromium, total (7440-47-3)	☑	☑	☐	Concentration	mg/L	0.01	0.01	0.01	24	
					Mass	lb/day	0.166	0.166	0.140	24	
1.6	Copper, total (7440-50-8)	☑	☑	☐	Concentration	mg/L	0.011	0.011	0.006	24	
					Mass	lb/day	0.182	0.182	0.082	24	
1.7	Lead, total (7439-92-1)	☑	☑	☐	Concentration	mg/L	0.005	0.005	0.001	24	
					Mass	lb/day	0.076	0.076	0.013	24	
1.8	Mercury, total (7439-97-6)	☑	☑	☐	Concentration	ug/L	0.007	0.007	0.005	24	
					Mass	lb/day	N/A	N/A	N/A	N/A	
1.9	Nickel, total (7440-02-0)	☑	☑	☐	Concentration	mg/L	0.01	0.01	0.01	24	
					Mass	lb/day	0.166	0.166	0.140	24	
1.10	Selenium, total (7782-49-2)	☑	☑	☐	Concentration	mg/L	0.002	0.002	0.002	24	
					Mass	lb/day	0.033	0.033	0.028	24	
1.11	Silver, total (7440-22-4)	☐	☑	☐	Concentration	mg/L	0.0005	0.0005	0.0005	24	
					Mass	lb/day	0.008	0.008	0.007	24	

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AR0000752	El Dorado Chemical Company	001/009/010

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	See PPS Form						
					Mass							
1.13	Zinc, total (7440-66-6)	☑	☑	☐	Concentration	mg/L	0.240	0.240	0.129	24		
					Mass	lb/day	3.978	3.978	1.860	24		
1.14	Cyanide, total (57-12-5)	☑	☑	☐	Concentration	mg/L	0.013	0.013	0.010	24		
					Mass	lb/day	0.182	0.182	0.142	24		
1.15	Phenols, total	☑	☑	☐	Concentration	See PPS Form						
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☑	☐	☑	Concentration	See PPS Form						
					Mass							
2.2	Acrylonitrile (107-13-1)	☑	☐	☑	Concentration							
					Mass							
2.3	Benzene (71-43-2)	☑	☐	☑	Concentration							
					Mass							
2.4	Bromoform (75-25-2)	☑	☐	☑	Concentration							
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☑	☐	☑	Concentration							
					Mass							
2.6	Chlorobenzene (108-90-7)	☑	☐	☑	Concentration							
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☑	☐	☑	Concentration							
					Mass							
2.8	Chloroethane (75-00-3)	☐	☐	☑	Concentration							
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AR0000752	El Dorado Chemical Company	001/009/010

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	See PPS Form					
					Mass						
2.10	Chloroform (67-66-3)	☑	☐	☑	Concentration						
					Mass						
2.11	Dichlorobromomethane (75-27-4)	☑	☐	☑	Concentration						
					Mass						
2.12	1,1-dichloroethane (75-34-3)	☑	☐	☑	Concentration						
					Mass						
2.13	1,2-dichloroethane (107-06-2)	☑	☐	☑	Concentration						
					Mass						
2.14	1,1-dichloroethylene (75-35-4)	☑	☐	☑	Concentration						
					Mass						
2.15	1,2-dichloropropane (78-87-5)	☑	☐	☑	Concentration						
					Mass						
2.16	1,3-dichloropropylene (542-75-6)	☑	☐	☑	Concentration						
					Mass						
2.17	Ethylbenzene (100-41-4)	☑	☐	☑	Concentration						
					Mass						
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						
					Mass						
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☐	☐	☑	Concentration						
					Mass						

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	See PPS Form						
					Mass							
2.23	Toluene (108-88-3)	☑	☐	☑	Concentration							
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☑	☐	☑	Concentration							
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☑	☐	☑	Concentration							
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☑	☐	☑	Concentration							
					Mass							
2.27	Trichloroethylene (79-01-6)	☑	☐	☑	Concentration							
					Mass							
2.28	Vinyl chloride (75-01-4)	☑	☐	☑	Concentration							
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☑	☐	☑	Concentration	See PPS Form						
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☑	☐	☑	Concentration							
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☑	☐	☑	Concentration							
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☑	☐	☑	Concentration							
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration							
					Mass							

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	See PPS Form						
					Mass							
3.7	4-nitrophenol (100-02-7)	☑	☐	☑	Concentration							
					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							
					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	See PPS Form						
					Mass							
4.2	Acenaphthylene (208-96-8)	☑	☐	☑	Concentration							
					Mass							
4.3	Anthracene (120-12-7)	☑	☐	☑	Concentration							
					Mass							
4.4	Benzidine (92-87-5)	☑	☐	☑	Concentration							
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☑	☐	☑	Concentration							
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☑	☐	☑	Concentration							
					Mass							

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	See PPS Form						
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☑	☐	☑	Concentration							
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☑	☐	☑	Concentration							
					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							
					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							
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☑	☐	☑	Concentration							
					Mass							

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	See PPS Form						
					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							
4.25	Dimethyl phthalate (131-11-3)	☑	☐	☑	Concentration							
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☑	☐	☑	Concentration							
					Mass							
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							
4.32	Fluorene (86-73-7)	☑	☐	☑	Concentration							
					Mass							

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	See PPS Form						
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☑	☐	☑	Concentration							
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☑	☐	☑	Concentration							
					Mass							
4.36	Hexachloroethane (67-72-1)	☑	☐	☑	Concentration							
					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							
					Mass							
4.40	Nitrobenzene (98-95-3)	☑	☐	☑	Concentration							
					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							
					Mass							
4.45	Pyrene (129-00-0)	☑	☐	☑	Concentration							
					Mass							

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	See PPS Form						
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☑	☐	☑	Concentration	See PPS Form						
					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							

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	See PPS Form						
					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							

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	See PPS Form						
					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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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 *not* 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 *not* 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	col/100mL	2400	789	N/A	24		
				Mass							
5.	Fluoride (16984-48-8)	☐	☑	Concentration							
				Mass							
6	Nitrate-nitrite	☑	☐	Concentration	mg/L	92	42	32	24		
				Mass	lb/day	1060	574	415	24		
7.	Nitrogen, total organic (as N)	☑	☐	Concentration							
				Mass							
8.	Oil and grease	☑	☐	Concentration	mg/L	13	5.6	5.1	24		
				Mass	lb/day	174	85	67.6	24		
9.	Phosphorus (as P), total (7723-14-0)	☑	☐	Concentration	mg/L	0.47	0.37	0.15	24		
				Mass	lb/day	N/A	N/A	N/A	N/A		
10.	Sulfate (as SO_4) (14808-79-8)	☑	☐	Concentration	mg/L	140	109	79	24		
				Mass	lb/day	2309	1629	1054	24		
11.	Sulfide (as S)	☐	☑	Concentration							
				Mass							

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							

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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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	☐	☑		

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.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

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	☐	☑		

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	☐	☑		

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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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	☐	☐	☑	

PROCESS FLOW DIAGRAM

REVISIONS					
ZONE	REV	DESCRIPTION	DATE	DR	APVD
	A	CREATED DRAWING	6/03/16	MPB	

BOILER HOUSE

NITRIC ACID MANUFACTURING

SULFURIC ACID MANUFACTURING

AMMONIA MANUFACTURING

SEPTIC TANKS FROM PLANT ENGINEERING & CONTROL ROOM

AMMONIA NITRATE PRILLING & STORAGE

AMMONIA STORAGE

pH NEUTRALIZATION UNIT

RECOVERY WELLS #1 & #2

1 ACRE DAY POND WITH AERATION

FLOOD CONDITIONS ONLY

SANITARY USE

SANITARY SEWER COLLECTION IMHOFF TREATMENT SANDBEDS

STORMWATER

STORMWATER

50 ACRE EQUALIZATION POND

MONITORING

MONITORING

MONITORING

MONITORING

MONITORING

003 OUTFALL

006 OUTFALL

007 OUTFALL

001 OUTFALL,
010 OUTFALL
009 OUTFALL

002 OUTFALL

EL DORADO CHEMICAL CO.
EL DORADO, ARKANSAS

PLANT: ENVIRONMENTAL	DEPT: 519

WATER FLOW
PROCESS FLOW DIAGRAM

DR BY: MPB	CHK:	
APVD:	SCALE: NONE	
DATE: 06/03/16	DWG NO.	REV
SH 1 OF 1	519-WATERFLOW-PFD	A

DATE STAMP: 06/03/16

SUB DIR \ 519

FILE NAME: 519-WATERFLOW-PFD

FORM 2F

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
	AR0000752	El Dorado Chemical Company	

Form 2F NPDES

U.S Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

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 Tributary to Flat Creek	33° 15′ 33.8″ N	92° 41′ 14.2″ W
002	Unnamed Tributary to Flat Creek	33° 15′ 45.3″ N	92° 41′ 20.3″ W
006	Unnamed Tributary to Flat Creek	33° 16′ 03″ N	92° 41′ 02″ W
007	Unnamed Tributary to Flat Creek	33° 16′ 6.3″ N	92° 41′ 16″ W
009	Unnamed Tributary to Flat Creek	33° 15′ 32.6″ N	92° 41′ 14.4″ W
010	Via pipeline to Ouachita River	33° 15′ 18.2″ N	92° 41′ 27.3″ W

SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))

Improvements

2.1 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 Section 3.

2.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

2.3 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? (Optional Item)

☐ Yes ☐ No

SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

Site Drainage Map

3.1 Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)

☑ Yes ☐ No

SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources

4.1 Provide information on the facility's pollutant sources in the table below.

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
001	20	*specify units* acres	93.45 (Plant Area Only)	*specify units* acres
002	20	*specify units* acres	93.45 (Plant Area Only)	*specify units* acres
010	20	*specify units* acres	93.45 (Plant Area Only)	*specify units* acres
006	1.0	*specify units* acres	11.8	*specify units* acres
007	4	*specify units* acres	4.96	*specify units* acres
009	20	*specify units* acres	93.45 (Plant Area Only)	*specify units* acres

4.2 Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)

Storm water runoff from any material stored or temporarily disposed of in the Outfall 001 drainage basin will be treated through EDCC's treatment system (see Section C. below). In general, significant materials (raw and finished product) are not stored or disposed of in such a manner to allow exposure to storm water. Transfer practices for ammonium nitrate do include: 1) cleaning, or scraping of residual ammonium nitrate from rail car floors through hoppers located on the bottom of the rail cars; 2) Removal of excess ammonium nitrate from rail cars that are over filled; and 3) Bulk warehouse dump truck spillage. these cases might be considered temporary storage of final product with exposure to storm water, and are located within the storm water drainage basins 006 and 007. In case 1), stainless steel pans are usually placed below the hoppers to collect scraped ammonium nitrate. In cases 2) and 3), spills from these operations are typically cleaned up immediately following the spill.

Pesticides, soil conditioners, and fertilizers are not used at the facility. Herbicides are occasionally used in spot applications.

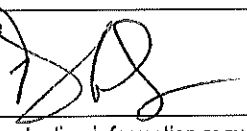
4.3 Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)

Stormwater Treatment		
Outfall Number	**Control Measures and Treatment**	**Codes from Exhibit 2F–1** (list)
001	Neutralization unit, followed by a 1-acre aeration pond, followed by a 50-acre equalization pond	2K, 3B, 3G
002	Neutralization unit, followed by a 1-acre aeration pond	2K, 3B
010	Neutralization unit, followed by a 1-acre aeration pond, followed by a 50-acre equalization pond	2K, 3B, 3G
006	None	N/A
007	None	N/A
009	Neutralization unit, 1-acre aeration pond, followed by a 50-acre equalization pond	2K, 3B, 3G

SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges

5.1 *I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.*

Name (print or type first and last name)	Official title
Derek Turner	General Manager
Signature 	Date signed 3/7/23

5.2 Provide the testing information requested in the table below.

Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
001/002 009/010	Visual		001/002/009/010
006	Visual		006
007	Visual		007

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills

6.1 Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.

None

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information

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.

7.1 Is this a new source or new discharge?

☐ Yes ➔ See instructions regarding submission of *estimated* data. ☑ No ➔ See instructions regarding submission of *actual* data.

Tables A, B, C, and D

7.2 Have you completed Table A for each outfall?

☑ Yes ☐ No

Discharge Information Continued

7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? ☑ Yes ☐ No ➔ SKIP to Item 7.5.
7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? ☑ Yes ☐ No
7.5	Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge? ☑ Yes ☐ No ➔ SKIP to Item 7.7.
7.6	Have you listed all pollutants in Exhibit 2F–2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? ☑ Yes ☐ No
7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes ➔SKIP to Item 7.18. ☑ No
7.8	Do you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge? ☑ Yes ☐ No ➔ SKIP to Item 7.10.
7.9	Have you listed all pollutants in Exhibit 2F–3 that you know or have reason to believe are present in the discharge in Table C? ☑ Yes ☐ No
7.10	Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater? ☑ Yes ☐ No ➔ SKIP to Item 7.12.
7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F–3 that you expect to be discharged in concentrations of 10 ppb or greater? ☑ Yes ☐ No
7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☑ No ➔ SKIP to Item 7.14.
7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? ☐ Yes ☐ No
7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? ☑ Yes ☐ No
7.15	Do you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge? ☐ Yes ☑ No ➔ SKIP to Item 7.17.
7.16	Have you listed pollutants in Exhibit 2F–4 that you know or believe to be present in the discharge and provided an explanation in Table C? ☐ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☑ Yes ☐ No

Discharge Information Continued

Used or Manufactured Toxics

7.18 Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?

☐ Yes ☑ No ➔ SKIP to Section 8.

7.19 List the pollutants below, including TCDD if applicable.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data

8.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?

☑ Yes ☐ No ➔ SKIP to Section 9.

8.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
Chronic WET Testing	Required by Permit	☑ Yes ☐ No	With Monthly DMRs
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information

9.1 Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?

☑ Yes ☐ No ➔ SKIP to Section 10.

9.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Europhins (Formerly American Interplex)		
Laboratory address	8600 Kanis Road Little Rock, AR 72204		
Phone number	(501) 224-5060		
Pollutant(s) analyzed	All		

SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

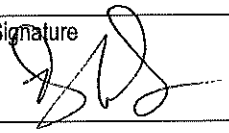
Checklist and Certification Statement

10.1 In Column 1 below, mark the sections of Form 2F 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	☐ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2	☐ w/ attachments
☑ Section 3	☐ w/ site drainage map
☑ Section 4	☐ w/ attachments
☑ Section 5	☐ w/ attachments
☑ Section 6	☐ w/ attachments
☑ Section 7	☑ Table A ☐ w/ small business exemption request ☑ Table B ☐ w/ analytical results as an attachment ☑ Table C ☑ Table D
☑ Section 8	☐ w/attachments
☑ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)
☑ Section 10	☐

10.2 **Certification Statement**

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.

Name (print or type first and last name)	Official title
Derek Turner	General Manager
Signature 	Date signed 3/7/23

OUTFALLS 001/009/010

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
	AR0000752	El Dorado Chemical Company	001/009/010

Form Approved 03/05/19
OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	13 mg/L		5.1 mg/L		24	
2.	Biochemical oxygen demand (BOD_5)	N/A	8.8 mg/L	N/A	3.87 mg/L	24	
3.	Chemical oxygen demand (COD)	N/A	27 mg/L	N/A	27 mg/L	1	
4.	Total suspended solids (TSS)	N/A	26 mg/L	N/A	13 mg/L	24	
5.	Total phosphorus	N/A	0.47 mg/L	N/A	0.22 mg/L	24	
6.	Total Kjeldahl nitrogen (TKN)	N/A	14 mg/L	N/A	14 mg/L	1	
7.	Total nitrogen (as N)	N/A	38 mg/L	N/A	38 mg/L	1	
8.	pH (minimum)	7.16		7.16		24	
	pH (maximum)	8.14		8.14		24	

[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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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))[1]

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia-Nitrogen	N/A	55.0 mg/L	N/A	22.5 mg/L	24	
Nitrates	N/A	92.0 mg/L	N/A	42.3 mg/L	24	
Dissolved Oxygen	7.5 mg/L	N/A	N/A	N/A	24	
Total Dissolved Solids	N/A	600 mg/L	N/A	446.7 mg/L	24	
Chlorides	N/A	77.0 mg/L	N/A	48.13 mg/L	24	
Sulfates	N/A	140.0 mg/L	N/A	89.1 mg/L	24	
Mercury	N/A	0.007 ug/L	N/A	0.0051 ug/L	24	
Hexavalent Chromium	N/A	0.01 mg/L	N/A	0.01 mg/L	24	
Copper	N/A	0.011 mg/L	N/A	0.0057 mg/L	24	
Lead	N/A	0.0046 mg/L	N/A	0.0009 mg/L	24	
Nickel	N/A	0.01 mg/L	N/A	0.01 mg/L	24	
Selenium	N/A	0.002 mg/L	N/A	0.002 mg/L	24	
Silver	N/A	0.0005 mg/L	N/A	0.0005 mg/L	24	
ZInc	N/A	0.24 mg/L	N/A	0.13 mg/L	24	
Cyanide	N/A	0.013 mg/L	N/A	0.0101 mg/L	24	
Fecal Coliform	2400 col/100 mL	N/A	N/A	N/A	24	

[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	NPDES Permit Number	Facility Name	Outfall Number
	AR0000752	El Dorado Chemical Company	001/009/010

Form Approved 03/05/19
OMB No. 2040-0004

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))[1]

List each pollutant shown in Exhibits 2F–2, 2F–3, and 2F–4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant and CAS Number (if available)	**Maximum Daily Discharge** (specify units)		**Average Daily Discharge** (specify units)		**Number of Storm Events Sampled**	**Source of Information** (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	**Flow-Weighted Composite**	**Grab Sample Taken During First 30 Minutes**	**Flow-Weighted Composite**		
See Table B.						

[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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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
N/A					

Provide a description of the method of flow measurement or estimate.

Outfall 010 is continuously flow monitored using a totalizing meter.