COVIA

RECEIVED
APR 07 2025
OKLAHOMA WATER
RESOURCES BOARD

March 12, 2025

Planning & Management Division
Oklahoma Water Resources Board
3800 North Classen Boulevard
Oklahoma City, OK 73118

RE: Covia Solutions LLC - Sunshine Road Mine Area Water Management Plan- Roff, Oklahoma

Dear Sir/Madam:

Per the requirements set forth in Oklahoma Water Resources Board (OWRB) Rules 785-30-15, Covia Solutions LLC (Covia) is submitting this water management plan. This plan is updated to include the critical water needs of Covia's Sunshine Road Mine Area located in Roff, OK, ensuring sustainable water use and conservation in alignment with the state's regulations and environmental standards.

The enclosed plan details our proposed methods for water collection, distribution, treatment, and conservation. It addresses the items required in OWRB Rules 785-30-15.

We believe that our water management plan will serve as a model for responsible and sustainable water use. We are eager to collaborate with the OWRB to implement these initiatives and contribute to the state's long-term water security.

Thank you for considering our submission. If you have any questions, please don't hesitate to contact me via +1 540-336-2324 or Andrew.Obrien@coviacorp.com

Sincerely,

Andy OBrien
Andy OBrien (Mar 18, 2025 08:41 EDT)

Andrew O'Brien

V.P. Environmental, Safety and Health

PIT WATER MANAGEMENT PLAN

UPDATE TO INCLUDE

THE SUNSHINE ROAD AREA

PONTOTOC COUNTY, OKLAHOMA

February 2025

Covia Solutions LLC

600 E. Walling Avenue

Roff, OK 74865

Prepared by

Altamira-US LLC

Oklahoma City. Houston. Angleton. Irving

888-201-3762

www.altamira-us.com

ALTAMIRA

TABLE OF CONTENTS

1. PURPOSE

The purpose of this water management plan is to ensure responsible and sustainable use of water resources, particularly in relation to water trapped in producing areas. This plan has been developed in accordance with the Oklahoma Water Resources Board (OWRB) Rules (785:30-15). This plan outlines procedures for managing water collection, activities including pit dewatering, retention impoundments, and diversion points related to the operation of the additional acreage of the Covia Roff Area known as the Sunshine Road Area.

2. PROJECT DESCRIPTION

The OWRB approved the Water Management Plan related to the Hatch Area Site to Covia Solutions Inc. (Covia) in October 2018. The Hatch Area is located to the east of Roff, Oklahoma in the S2 SE of Section 19-2N-SEIM in Pontotoc County. This water management plan update will include the Sunshine Road Mine Area, which will be located approximately 4.5 miles south of Roff, OK, and will cover approximate 380 acres at peak operations. The site contains one identified creek, Little West Blue Creek) near the mine area and has a drainage area of 127 acres.

The water supply will be from the pipeline from the existing Covia property to the north. The water removed or disposed of will be surface water runoff. Towards the end of the operational life – groundwater will also be removed. The expected start time of the operations will be in late 2026. The total operation time of the Sunshine Road Mine Area is approximately 8-25 years.

3. MANAGEMENT PLAN ELEMENTS

In accordance with OWRB Rules 785:30-15-6(a), the Water Management Plan for the site is outlined in the following sections.

3.1 Element 1 (Characterization of Area):

A map of the current site is shown in the Maps section. The Sunshine Road Area is located approximately 6 miles southeast of the office building and contains a drainage area of 127 acres. An updated map including the Sunshine Road Mine Area is shown in the Maps section.

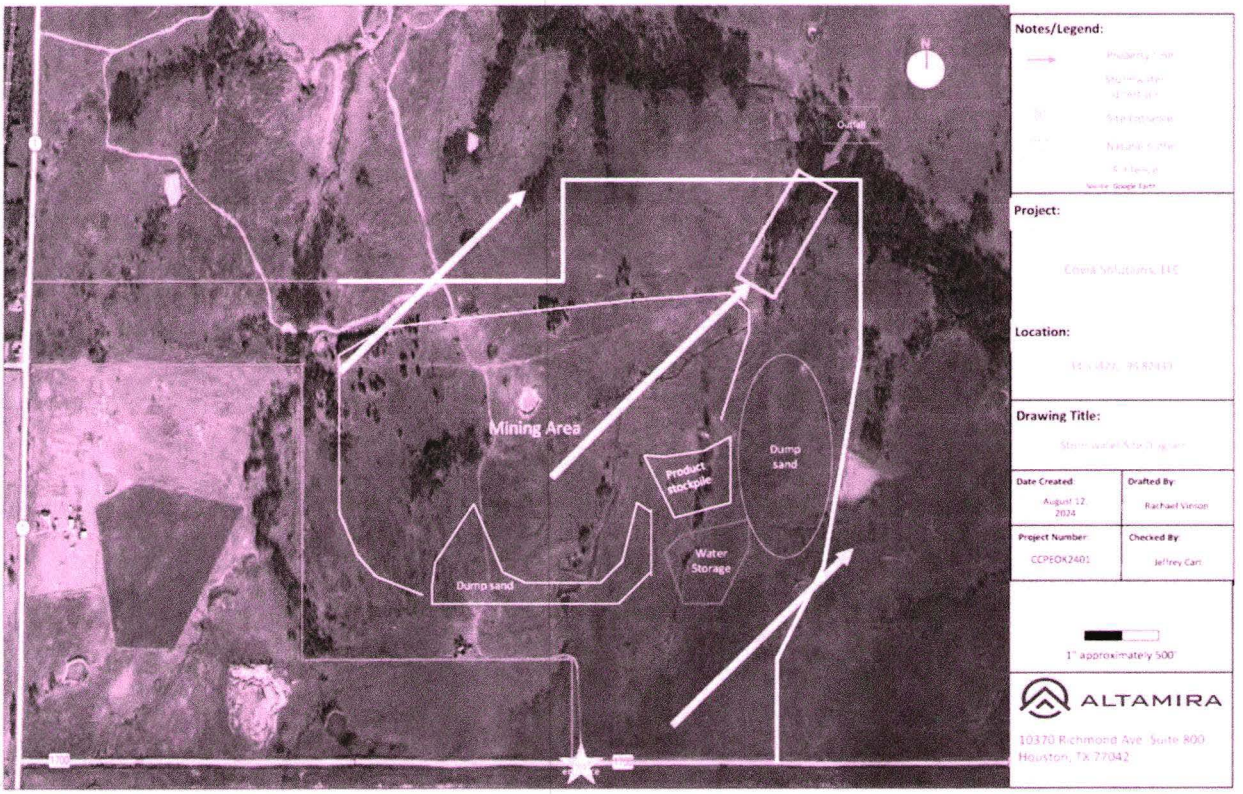

Figure 1 –Sunshine Road Area Map

Proposed stormwater Outfall 12 will be constructed approximately at 34°33'37.0"N 96°49'09.0"W. Little West Blue Creek is the first body of water to receive discharge.

3.2 Element 2 (Facility Layout):

The Stormwater Map shows the locations of proposed stormwater outfall 12 and impoundments. During the operations of the current area, all groundwater and pit water will be utilized as part of the material (to slurry sand). From this location the water will then either be discharged to Little West Blue Creek through a permitted process water outfall, left in the settling/retention impoundment, or returned to the active pit for use in the mining operation.

Once constructed, the proposed Sunshine Road Area will receive water from pipelines at the north of the property. Similar to the current operation scenario, the pit water and process water will be utilized to slurry sand. After the construction is completed, all stormwater runoff will be directed to pit area where it will be pumped to process ponds at the north property.

The anticipated direction of flow of all groundwater and/or pit water between the different areas of the mining operation are identified and can be seen in the maps section.

The following are types of locations and/or points that are anticipated to be used as part of this mining operation:

Proposed locations and points can be identified in the attached maps:

a. Mining Area/Pit Location
b. Processing Facility Location
c. Water Storage Impoundment Location
d. Stream Water Augmentation Location(s)
    i. Currently, there are no plans to use stream water augmentation at this site. However, the possible location(s) of stream water augmentation points are included should the decision be made to use stream water augmentation.
e. Groundwater and/or Pit Water Stream Discharge Points
f. Groundwater and/or Pit Water Withdraw Points

3.3 Wetlands and 404 Permitting

A wetlands delineation was conducted in July of 2024 prompted by desktop assessments that anticipated wetlands on the Sunshine Road Area property. According to the National Wetlands Inventory there are several freshwater ponds and a riverine crossing through the site. Please see the attached pre construction notification to the Army Corps of Engineers (USACE). This is currently being reviewed by USACE.

3.4 Element 3 (Water Budget):

The water budget for the Sunshine Road Area is based upon the anticipated conditions of the site during peak operation. Groundwater flow can be seen in Stormwater Map.

Water budget flowchart can be seen in Table 1.

Below is the anticipated flow of water into and out of the area site.

a. Water flow entry and exit points;
b. Groundwater and stormwater runoff;
c. Pit water;
d. Evaporation;
e. Water loss during processing of materials;
f. Stream water augmentation – (Assume no plan to use stream water augmentation?)
g. Groundwater/pit water discharged to the outfalls.

3.5 Element 4 (Water Rights):

Covia owns or in the process of ownership transfer of the following water permits:

Permit Number	1985-505	1971-362	1964-0120	1984-646F	1984-653B
Entity name	Covia Solutions Inc	Covia Solutions Inc	Covia Solutions Inc	Covia Solutions Inc.	Covia Solutions Inc.
Permitted amount	78.6 acre-feet	12 acre-ft; 1,100 gal/min	764 ac-ft	42.71 acre-ft	37.18 ac-ft
Dedicated acres	393	60		213.5	185.9
Status/Notes	Permit Owner	Permit Owner	Permit Owner	Permit Owner	Permit Owner

3.5 Element 5 (Consumptive Use of Pit Water)

The estimate consumptive use of pit water as set forth in OWRB 785-30-15 Appendix C is detailed in Table 1. The anticipated total amount of consumptive water usage is based on the peak operations of the area.

Table1 - Estimated Consumptive Use Report

	PIT GROUNDWATER VOLUME		
1	Total volume of water pumped from the producing mine pit(s)		217,906,817
2	Volume of precipitation that falls onto the surface of water in the producing mining pit(s)		85,211,807
3	Portion of total precipitation that flows over the land surface that drains into the mine pit water		27,575,010
4	Other non-pit water pumped from the producing mine pit		0
5	Add lines 2 through 4		112,786,817
6	**Pit Groundwater Volume** Line 1 minus Line 5		105,120,000
	DEFINED ELEMENTS OF CONSUMPTIVE USE		
7	Volume of pit groundwater that is driven off (by drying) the mined material transported off the mine site		14,388,489
8	Volume of pit groundwater that is carried away with the mined material transported off the mining site (shipped)		0
9	Volume of pit groundwater that evaporates from the producing mine pit, process water ponds, and lined ponds (excluding structures used for augmentation)		24,648,090
10	Volume of pit groundwater that is used for other beneficial uses off the mine site		0
11	**Defined Elements of Consumptive Use of Pit Groundwater** Add Lines 7 through 10		39,036,579
	PIT GROUNDWATER BALANCE		
12	Line 6 minus Line 11		
13	**Groundwater Augmentation** Volume of pit groundwater returned to the groundwater basin or sub-basin, pursuant to a Management Plan	**Credits**	66,083,421
14	**Stream Augmentation** Volume of pit groundwater discharged to a definite stream, during flow conditions that are less than or equal to 50% exceedance, pursuant to a Management Plan		0
15	**Precipitation & Run-off** Volume of precipitation and surface run-off into a recharge pit or holding pond used for augmentation		0
16	**Recycled Pit Groundwater** Volume of pit groundwater returned to a mine pit or holding basin (not included on lines 7 through 10)		66,083,421
17	**Other Non-Consumptive Losses** Including pit groundwater returned to the land surface from which surface runoff flows into a mine pit, and other losses (not included in lines 7 through 10)		0
19	**Other Consumptive Use (adjusted)** Line 12 minus Line 18		0
	TOTAL REPORTED CONSUMPTIVE USE OF PIT		
20	**Total Net Reported Consumptive Use** Line 11 plus Line 19		39,036,579

[**Source:** Added at 30 Ok Reg 884, eff 6-13-13]

3.6 Element 6 (Augmentation)

Element 6a (Groundwater Augmentation):

Currently there are no plans to use or claim any groundwater augmentation credits. If there is any nonactive pit to be considered as groundwater augmentation in the future, all appropriate information and data will be provided to the OWRB for approval. No groundwater augmentation credits will be claimed until an updated/amended plan has been approved by the OWRB.

Element 6b (Stream Water Augmentation):

Currently there are no plans to use stream water augmentation at this site. Groundwater and/or pit water will be discharged into Blue River through either direct discharge or tributaries as listed below.

1. Blue River
2. Little West Blue Creek (Tributary to Blue River)
3. Limestone Creek (Tributary to Blue River)
4. Unnamed Tributary to Blue River
5. Unnamed Tributary to Limestone Creek

If there is any stream water augmentation credit to be claimed in the future, records including the date, volume discharged, start and end of the discharge, and the flow in Blue River at the time of discharge will be kept.

Since Blue River would be the ultimate receiving water body of discharges, augmentation would only be taken when the flow of the Blue River was less than or equal to the 50% exceedance. A brief summary of Blue River near Connerville, OK is listed below. A detailed report of USGS Stream Gage #07332390 is enclosed as Attachment 1.

Blue River Water Report Summary (USGS Stream Gage #07332390)

1) Location - Blue River near Connerville, OK
    a. Latitude 34°23'00", Longitude -96°36'01"
    b. SW1/4, SW1/4, NW 1/4, 17-2S-7EIM in Johnston County
2) Period of Record - October 1976 to September of 1979 and October 2003 to current year
3) 50% Exceedance – 50.5 cfs
    a. As of February 28, 2024
    b. Water Years 1977 – 2023

3.7 Element 7 (Determination of Water Amount):

The sources of water and methods of water amount calculation/estimation are detailed below:

(A) Groundwater that enters the pit

The amount of groundwater entering the pit will be calculated/estimated:
(Groundwater entering the pit) = (Total water volume removed from the pit) – (stormwater that drains into the pit) – (direct precipitation into the pit) – (water pumped into the pit from other sources)

(B) Surface water that enters the pit

The amount of surface water entering the pit can be determined by using SCS Runoff Model or other acceptable engineering methods. The following data will be used in the calculation.

- Precipitation that falls in the drainage area of the pit.
  The precipitation information in the area is obtained from the Fittstown Mesonet Station, which is located at Latitude 34°33'7", Longitude -96°43'4".
- Drainage area of the pit – roughly 194 acres
- Topography
- Soil Type
- Land Use
- Vegetation

(C) Any other factors deemed necessary
Water that is diverted from the pit
The water diverted from the pit will be quantified by utilizing a pump (either through metering or by calculating the volume based on pump rates and pumping duration) and/or by employing the most effective method available when water flows naturally due to gravity from the pit.

(D) Disposition of the water from the pit
The water disposition from material processing will be assessed based on the determined moisture content percentage in the material relative to the quantity of material removed from the pit. Other water disposition will be assessed either through metered pumping, calculation based on pumping rates, or estimation using the most effective available method.

(E) Consumptive use of the water from the pit
The total volume of Consumptive Pit Water will be calculated using the Pit Water Consumptive Use Report. See Table 1.

(F) Water diverted from a stream or pond
The amount of water diverted from the pit will be measured using a pump, either metered or calculated using pump rates and time pumped.

(G) Groundwater pumped from water wells
There is no plan to pump groundwater from the water wells.

(H) Water discharged to a stream
The amount of water discharged to a stream will be measured using a pump, either metered or calculated using pump rates and time pumped.

3.8 Element 8 (Groundwater Monitoring):

Two groundwater monitoring wells (PZ-21-01 and PZ21-02) were drilled and installed in 2021 as part of a prior project. Four new wells (PW23-01, OB23-01, OB23-02, and OB23-03) were drilled and installed in April of 2023. The locations of the wells can be found in the Maps section. However, due to borehole collapse issues, PZ21-1 was not drilled deep enough to fully penetrate the Ordovician Oil Creek Formation and has historically been dry. Two additional monitoring wells are planned for 2025. The new Dolomite Well 1 to be located west of the OB23 and north of the fault trace and the second monitoring well will either be the old house well/new Dolomite Well 2.

Information of the observation wells is detailed in the table below:

Well ID	Latitude	Longitude	Total Depth, ft	Well Pad Elevation, ft
PZ21-01	N 34° 33' 25.016"	W 96° 49' 59.579"	60	1,232
PZ21-02	N 34° 33' 27.205"	W 96° 49' 27.868"	90	1,201
PW23-01	N 34° 33' 28.095"	W 96° 49' 27.838"	110	1,203
OB23-01	N 34° 33' 28.105"	W 96° 49' 27.302"	102	1,203
OB23-02	N 34° 33' 31.184"	W 96° 49' 27.749"	125	1,213
OB23-03	N 34° 33' 21.644"	W 96° 49' 38.195"	80	1,209

As required, a well logger will be used on all groundwater wells allowing for the water level in each well to be measured hourly and recorded on a data logger.

3.9 Element 9 (Other monitoring on at site):

(A) The operator will not install a stream gage on the perennial portion of a tributary or main stem of a stream passing through the site.
(B) The operator will not install a rain gage on the site.
No other monitoring will occur other than what has been discussed in this management plan.

3.10 Element 10 (Quality Assurance Plan):

All equipment used for the purposes of this plan (pumps, meters, gauges, etc.) will be operated, maintained, and calibrated per the manufacturer's specifications and recommendations. All equipment will be checked daily to ensure its proper functionality and reliability. If the operator identifies any equipment malfunction, every effort will be made to fix or replace the equipment as soon as possible. During such time, proper and accurate estimates will be made using the most effective and accurate means possible.

All source data will be evaluated using proper engineering and scientific practices to ensure its reliability and accuracy. Calculation results and estimates will be conducted and validated by methods accepted by the engineering and scientific community.

3.11 Element 11 (Reporting & Data):

In accordance with the schedule provided in 82 O.S. §1020.2(E)(1), Covia will furnish the OWRB with the quarterly and annual pit water consumptive use reports. As required in OWRB Rules (785:30-15), each report will include the total amount of water consumed during that reporting period and necessary supporting information. The reports will contain the data listed in elements 6, 7 and 8, as discussed above. The quarterly reports will be submitted to the OWRB no later than the last day of the quarter following the quarter covered by the report. The annual reports will be submitted to the OWRB no later than the last day of the following year's 1st quarter.

Covia will review the water management plan on a quarterly basis. Any changes to the site will be incorporated into this management plan modification and the modified plan will be submitted to the OWRB for approval prior to the implementation of the modification(s).

All data related to this management plan and supporting documentations of pit water consumption at this site will be stored in a format readily readable by most common computer programs. In addition, all data will be stored and available for inspection by the OWRB while the area is in operation and for a period of 5 years after the area is closed in a format approved by the OWRB.

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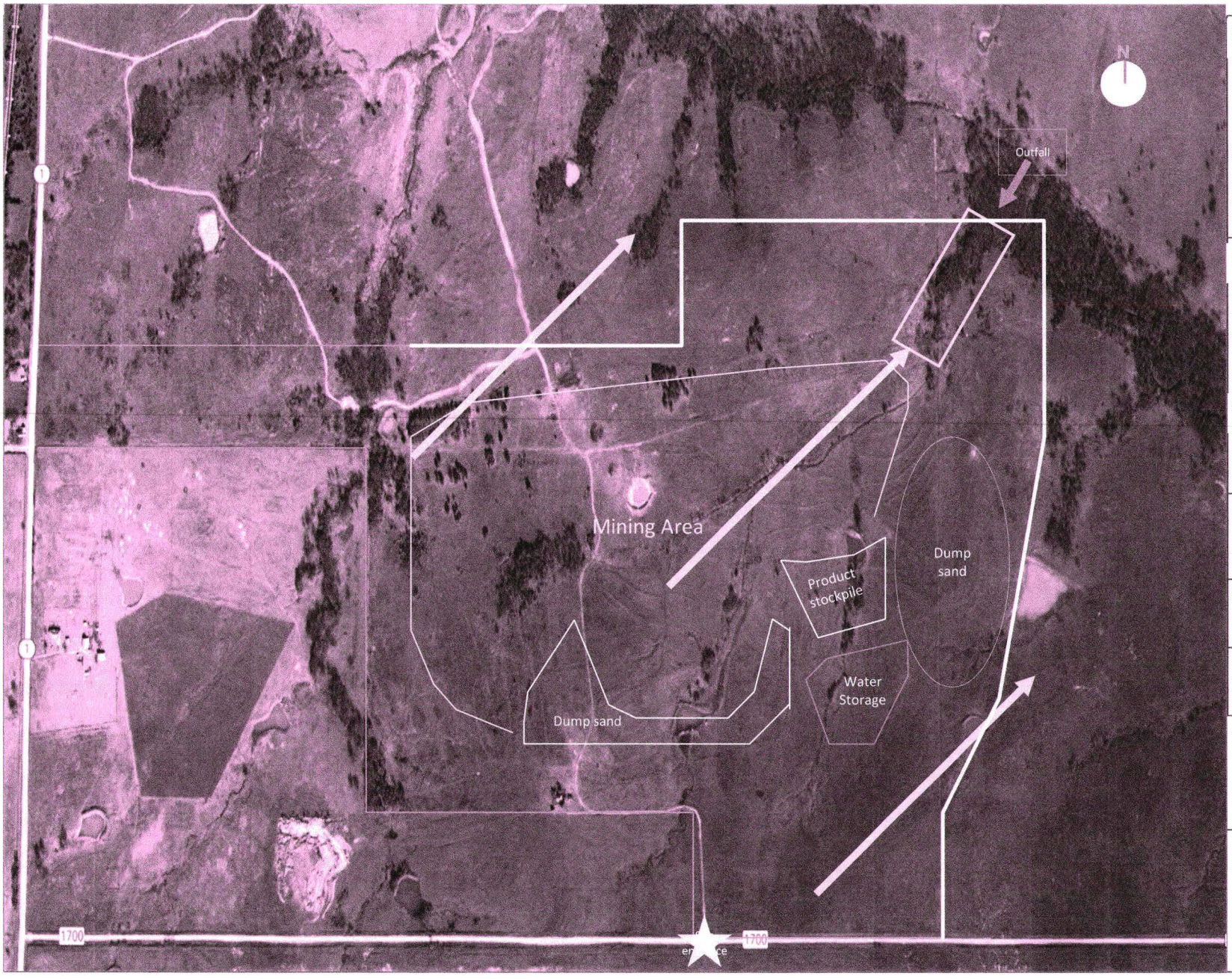
The quarterly reports will be submitted to the OWRB no later than the last day of the quarter following the quarter covered by the report. The annual reports will be submitted to the OWRB no later than the last day of the following 1st quarter.

Covia will review the water management plan on a quarterly basis. Any changes to the site will be incorporated into this management plan modification and the modified plan will be submitted to the OWRB for approval prior to the implementation of the modification(s).

All data related to this management plan and supporting documentations of pit water consumption at this site will be stored in a format readily readable by most common computer programs. In addition, all data will be stored and available for inspection by the OWRB while the area is in operation and for a period of 5 years after the area is closed in a format approved by the OWRB.

Maps



Notes/Legend:

- Property Line
- Stormwater direction
- Site Entrance
- Natural buffer
- Silt fence

Source: Google Earth

Project:

Covia Solutions, LLC

Location:

34.55427, -96.82433

Drawing Title:

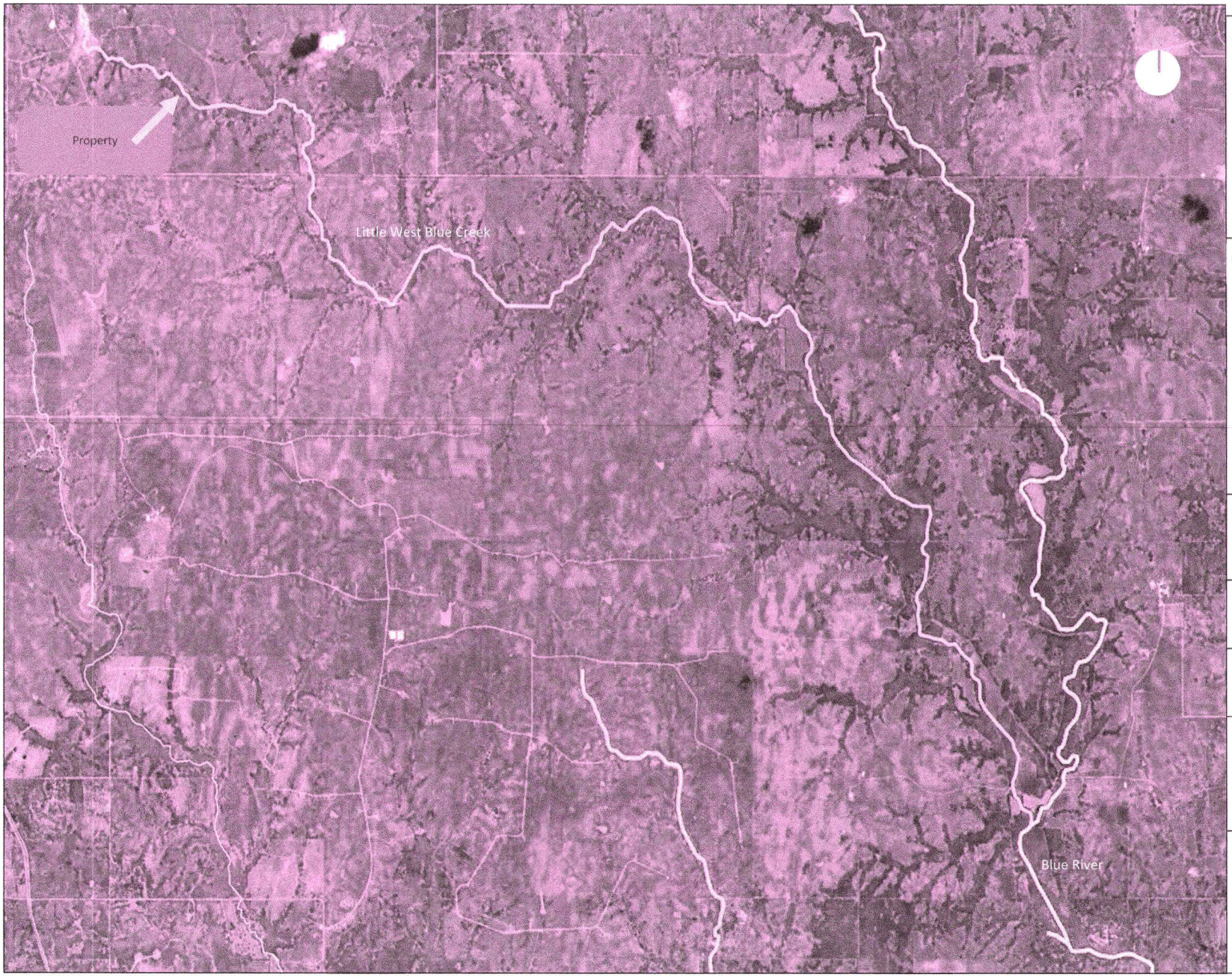
Stormwater Site Diagram

Date Created:	Drafted By:
August 12, 2024	Rachael Vinson
Project Number:	**Checked By:**
CCPEOK2401	Jeffrey Cart

1" approximately 500'

ALTAMIRA

10370 Richmond Ave. Suite 800
Houston, TX 77042



Notes/Legend:

Approximate Property boundary

Stormwater direction

Source: Google Earth

Project:

Covia Solutions, LLC

Location:

34.55427,- 96.82433

Drawing Title:

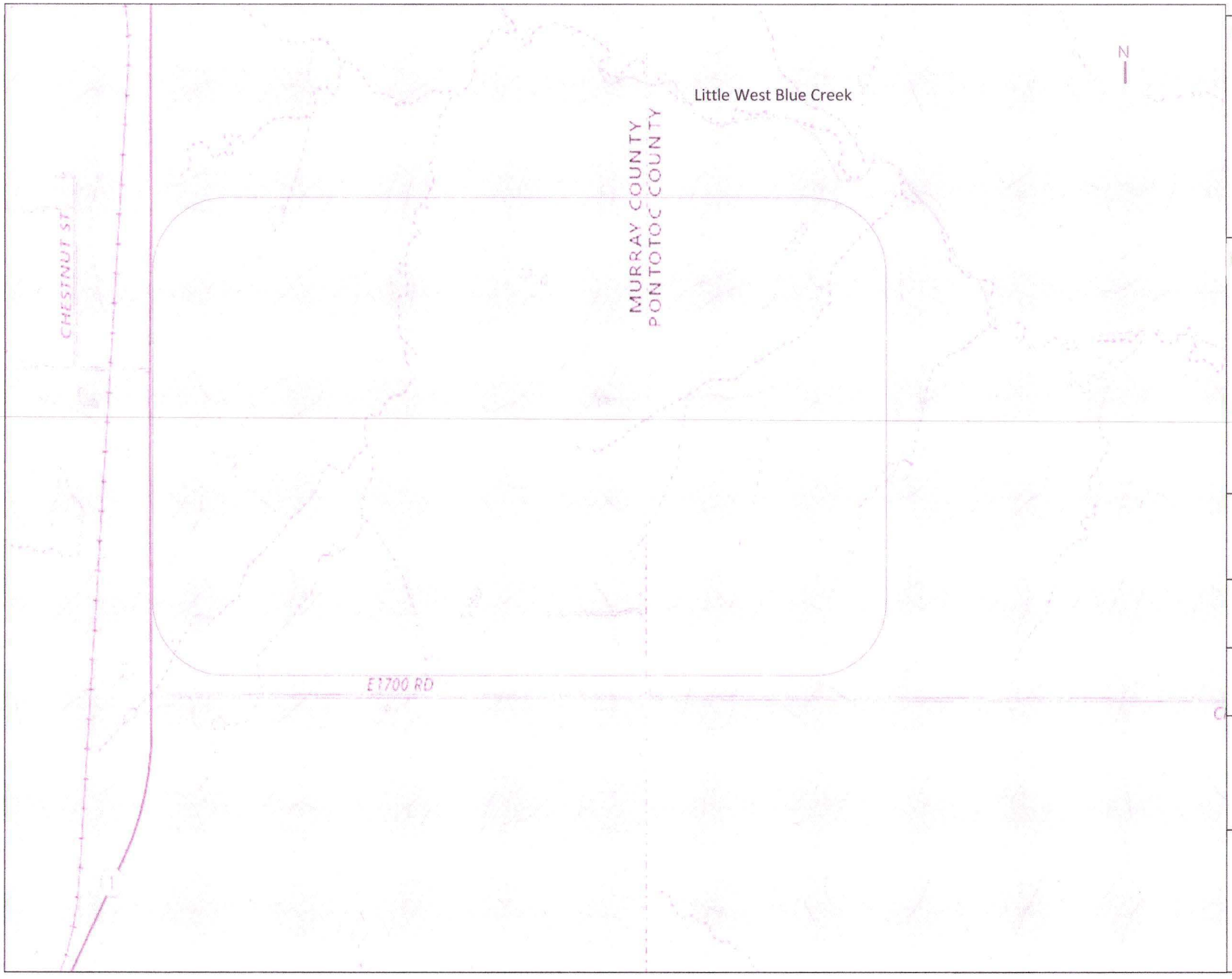
Water Map

Date Created:	Drafted By:
August 12, 2024	Rachael Vinson
Project Number:	**Checked By:**
CCPEOK2401	Jeffrey Cart

1" approximately 1 mile

ALTAMIRA

10370 Richmond Ave. Suite 800
Houston, TX 77042



Notes/Legend:

Approximate property boundary

Source: Google Earth

Project:

Covia Solutions, LLC

Location:

34.55427, -96.82433

Drawing Title:

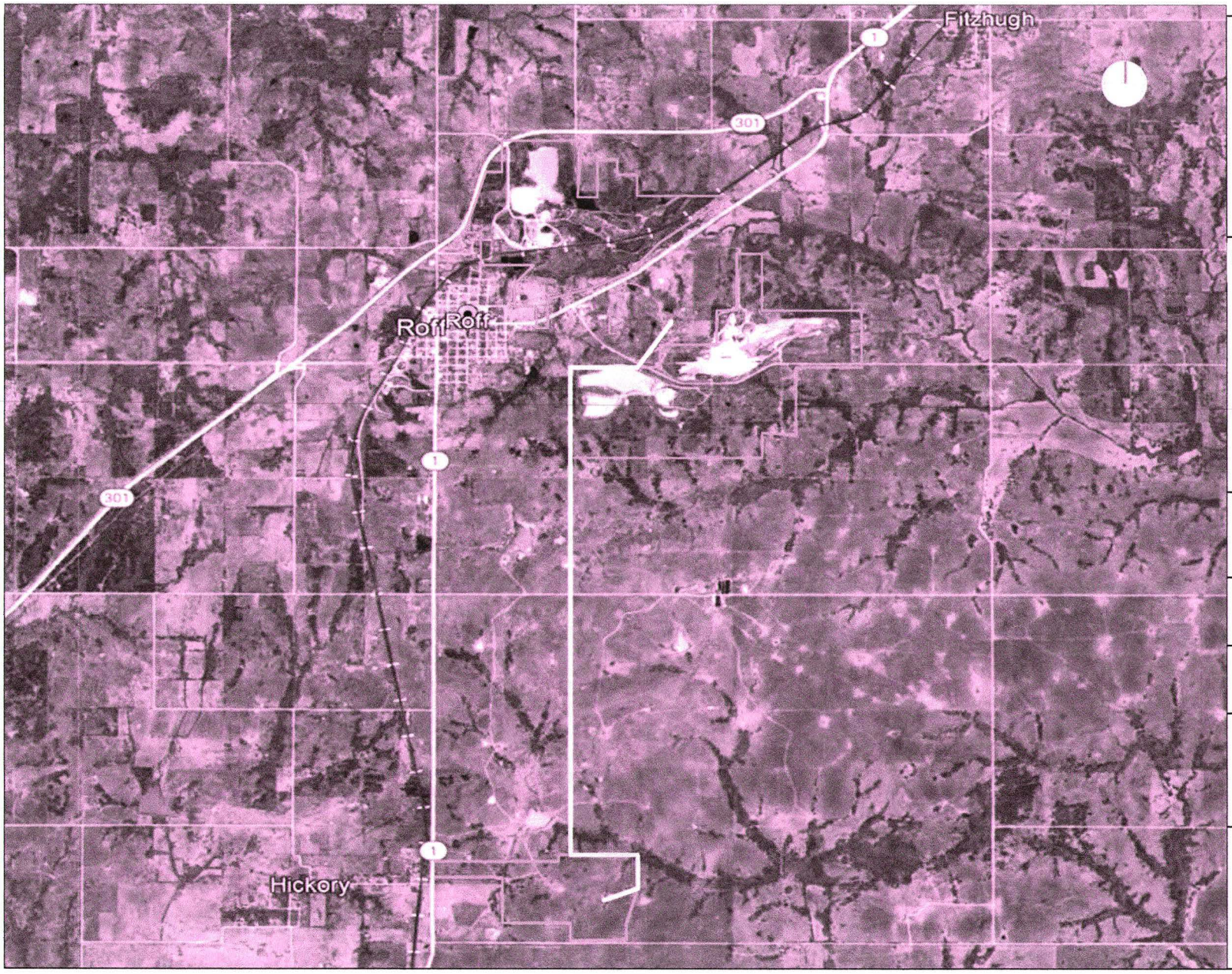
Topographic Map

Date Created:	Drafted By:
August 12, 2024	Rachael Vinson
Project Number:	**Checked By:**
CCPEOK2401	Jeffrey Cart

1" approximately .25 miles

ALTAMIRA

10370 Richmond Ave. Suite 800
Houston, TX 77042



Notes/Legend:

Approximate property boundary

Right of Way

Source: Google Earth

Project:

Covia Solutions, LLC

Location:

34.55427, -96.82433

Drawing Title:

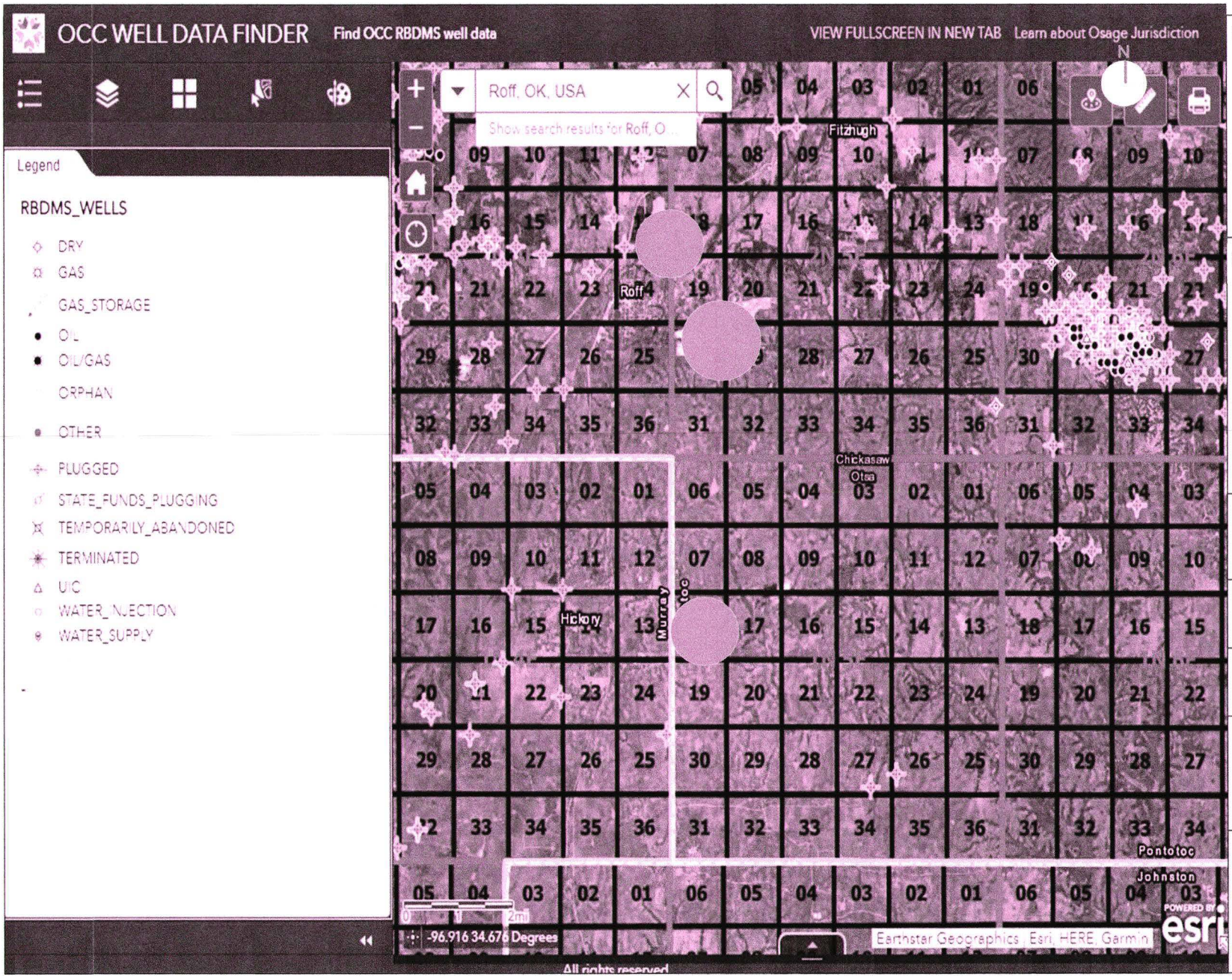
All Properties Map

Date Created:	Drafted By:
February 27, 2025	Rachael Vinson
Project Number:	**Checked By:**
CCPEOK2401	Chris Schaefer

1" approximately 3 miles

ALTAMIRA

10370 Richmond Ave. Suite 800
Houston, TX 77042



Notes/Legend:

Approximate property area

Source: Google Earth

Project:

Covia Solutions, LLC

Location:

34.55427, -96.82433

Drawing Title:

Well Map

Date Created:	Drafted By:
February 27, 2025	Rachael Vinson
Project Number:	**Checked By:**
CCPEOK2401	Chris Schaefer

1" approximately 2 miles

ALTAMIRA

10370 Richmond Ave. Suite 800
Houston, TX 77042

Covia Water Management Plan 2024 Final_RV_3-7-25 compressed

Final Audit Report 2025-03-18

Created:	2025-03-17
By:	Jordyn Richmond (Jordyn.Richmond@coviacorp.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAABZCXaiFEXScbcEgSWvwQWr0Z6RLez8yM

"Covia Water Management Plan 2024 Final_RV_3-7-25 compressed" History

Document created by Jordyn Richmond (Jordyn.Richmond@coviacorp.com)
2025-03-17 - 8:42:09 PM GMT- IP address: 170.10.5.220

Document emailed to andy.obrien@coviacorp.com for signature
2025-03-17 - 8:43:17 PM GMT

Email viewed by andy.obrien@coviacorp.com
2025-03-17 - 8:43:23 PM GMT- IP address: 52.3.199.226

Signer andy.obrien@coviacorp.com entered name at signing as Andy O'Brien
2025-03-18 - 12:41:49 PM GMT- IP address: 174.207.35.252

Document e-signed by Andy O'Brien (andy.obrien@coviacorp.com)
Signature Date: 2025-03-18 - 12:41:51 PM GMT - Time Source: server- IP address: 174.207.35.252

Agreement completed.
2025-03-18 - 12:41:51 PM GMT

Attachment 1: Little West Blue Creek Data

Graph it	DCP battery voltage, volts	2024-10-23 2025-02-20
Graph it	Precipitation, total, inches	2024-10-23 2025-02-20

Hide these data types

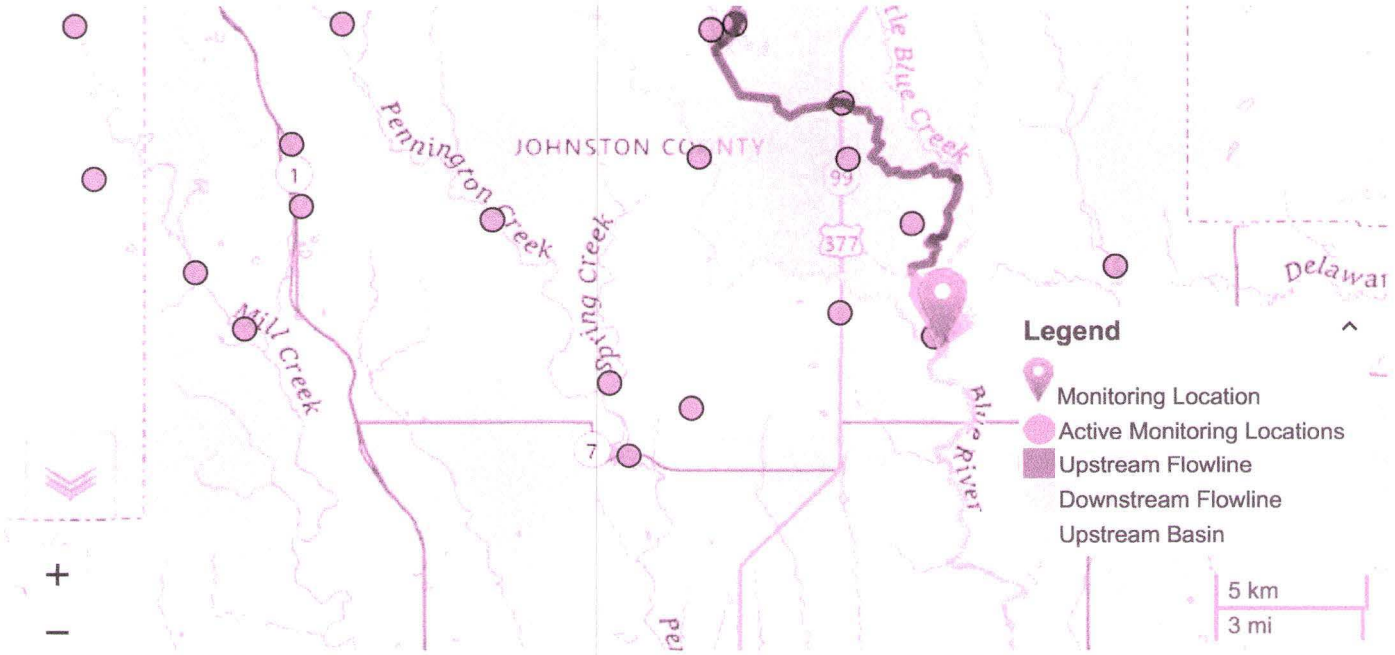
Daily data
3 data types available - data from 1976-10-01 to 2025-02-20

Show these data types

Field measurements - *Coming soon*
0 data types available

Discrete sample data
40 Observed properties (data types) available - with data from 1977-10-21 to [illegible]
9 Sampling activities

Show these data types



lational Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, N...

Interested in understanding how to access the upstream/downstream data? Learn about the Network-Linked Data Index (NLDI)

Summary of all available data

Location metadata

Operated in cooperation with:

Important for you to know:

- New to WDFN: explore current and historic water data available in your area of interest and filter to find monitoring locations that collect the water data you need through Explore USGS Water Data. To learn more, read our announcement on the Water Data for the Nation blog.

Blue River near Connerville, OK - 07332390

Legacy real-time page

7 days 30 days 1 year

Scale Linear Log

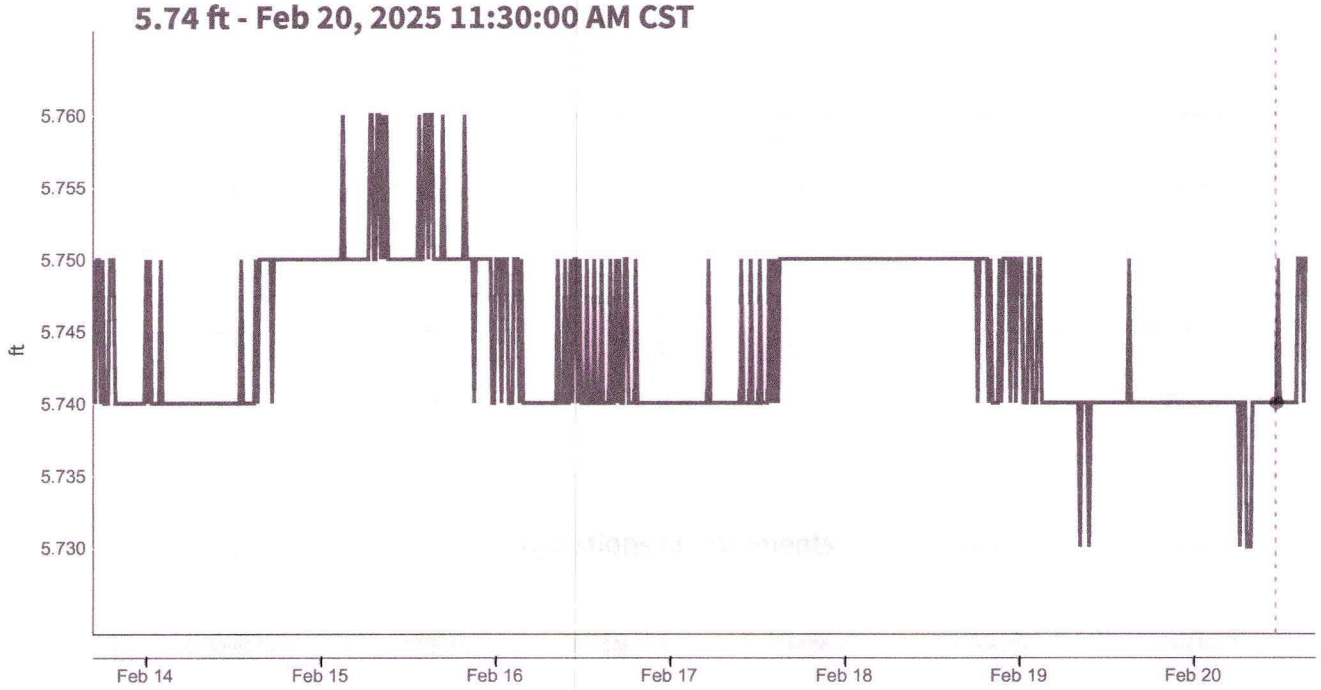
Blue River near Connerville, OK - 07332390

Subscribe to WaterAlert

February 13, 2025 - February 20, 2025

Gage height, feet

5.74 ft - Feb 20, 2025 11:30:00 AM CST



Data may be provisional

Show legend

Hide graph details

	Value	Status
Latest Feb 20, 2025 15:45:00 PM CST	5.75	Provisional
Selected Feb 20, 2025 11:30:00 AM CST	5.74	Provisional

Compare

Add last year's data to graph

Median

No median data for this data type

Hide graph details

Hide today's statistics

Statistics are not available at this monitoring location for the data type: Gage height, ft

Hide today's statistics

Change time span | Subscribe to WaterAlert | View related graphs | Download data | View data records

Show all data types

Continuous data

4 data types available - data from 2003-10-01 to 2025-02-20

Hide these data types

Continuous data are collected via automated sensors installed at a monitoring location.
Learn about Continuous data

	Data type	Data daily range
	Gage height, feet	2007-10-01 2025-02-20

Select data to graph on second y-axis

Graph it	Discharge, cubic feet per second	2003-10-01 2025-02-20

Attachment 2: Pre-Construction Notification to Army Corps of Engineers

U.S. Army Corps of Engineers (USACE)

NATIONWIDE PERMIT PRE-CONSTRUCTION NOTIFICATION (PCN)

For use of this form, see 33 CFR 330; the proponent agency is CECW-CO-R.

Form Approved - OMB No. 0710-0003 Expires: 08-31-2023

DATA REQUIRED BY THE PRIVACY ACT OF 1974

Authority	Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Regulatory Program of the Corps of Engineers (Corps); Final Rule 33 CFR 320-332.
Principal Purpose	Information provided on this form will be used in evaluating the nationwide permit pre-construction notification.
Routine Uses	This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of the agency coordination process.
Disclosure	Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued.

The public reporting burden for this collection of information, 0710-0003, is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or burden reduction suggestions to the Department of Defense, Washington Headquarters Services, at whs.mc-alex.esd.mbx.dd-dod-information-collections@mail.mil. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number.

PLEASE DO NOT RETURN YOUR RESPONSE TO THE ABOVE EMAIL.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (*see sample drawings and/or instructions*) and be submitted to the district engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETE

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE (*agent is not required*)
First – Jim Middle - Last - Bonsall	First – Rhett Middle - J Last – Francois
Company – Covia Solutions, LLC	Company – Trusted Compliance, LLC
Company Title – Facility Manager	E-mail Address – rhett@trusted-compliance.com
E-mail Address – Jim.Bonsall@coviacorp.com	
6. APPLICANT'S ADDRESS	**9. AGENT'S ADDRESS**
Address- 600 E Walling Street	Address- 104 Innisbrook Drive
City – Roff State - OK Zip - 74865 Country - USA	City - Broussard State - LA Zip - 70518 Country - USA
7. APPLICANT'S PHONE NOs. with AREA CODE	**10. AGENT'S PHONE NOs. with AREA CODE**
a. Residence b. Business c. Fax d. Mobile	a. Residence b. Business 337-443-9000 c. Fax d. Mobile 337-258-7576

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Rhett J. Francois to act in my behalf as my agent in the processing of this nationwide permit pre-construction notification and to furnish, upon request, supplemental information in support of this nationwide permit pre-construction notification.

_____ _____

SIGNATURE OF APPLICANT DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME or TITLE (*see instructions*)

Covia Sunshine Road Sand Mine & Associated Pipeline

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

13. NAME OF WATERBODY, IF KNOWN (*if applicable*)
No named waterbody

14. PROPOSED ACTIVITY STREET ADDRESS (*if applicable*)
No street Adress

15. LOCATION OF PROPOSED ACTIVITY (*see instructions*)
Latitude 34.55536111 °N Longitude -96.82668889 °W

City: Hickory / Roff (Pontotoc & Murray Counties State: OK
Zip:

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (*see instructions*)

State Tax Parcel ID: 500015057 & 620029210 Municipality: Hickory / Roff

Section 13, T01N, R04E & Section 18, T01N, R05E

17. DIRECTIONS TO THE SITE

FROM I-35N in Ardmore, OK: Follow I-35N 19.9 miles. Exit onto US-77N. Take US-77N for 3.4 miles. Turn right onto Hwy 7 E. Take Hwy 7 E for 15.6 miles. Turn left onto OK-1 E. Take OK-1E for 3.2 miles. Turn right onto E170 Rd/E1700 Rd. Take E170 Rd/E1700 Rd for 1 mile. Target property is on the left.

18. IDENTIFY THE SPECIFIC NATIONWIDE PERMIT(S) YOU PROPOSE TO USE

Pre-Construction Notification, NWP44-Mining Activities

19. DESCRIPTION OF PROPOSED NATIONWIDE PERMIT ACTIVITY (*see instructions*)

Pre-construction notification for a sand mining operation which includes the excavation of sand for sale to market. A pipeline is being proposed to move a sand slurry Mixture from the proposed facility to an existing facility. The project is located in Roff & Hickory, Oklahoma (Pontotoc and Murray Counties).

20. DESCRIPTION OF PROPOSED MITIGATION MEASURES (*see instructions*)

Applicant is prepared to pay for mitigation of impacted wetlands & streams.

21. PURPOSE OF NATIONWIDE PERMIT ACTIVITY (*Describe the reason or purpose of the project, see instructions*)

The purpose of this project is to construct a sand mining operation which includes the excavation of sand for sale to market. A pipeline is being proposed to move a sand slurry mixture from the proposed facility to an existing facility. The project is located in Roff & Hickory, Oklahoma (Pontotoc and Murray Counties).

22. QUANTITY OF WETLANDS, STREAMS, OR OTHER TYPES OF WATERS DIRECTLY AFFECTED BY PROPOSED NATIONWIDE PERMIT ACTIVITY (*see instructions*)

Acres	Linear Feet	Cubic Yards Dredged or Discharged
0.795 acres	5,703 feet	1,282

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site.

23. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. (*see instructions*)

USACE Wetland Jurisdictional Determination in progress. (MVN-2024-00446)

24. If the proposed activity will result in the loss of greater than 1/10-acre of wetlands and requires pre-construction notification, explain how the compensatory mitigation requirement in paragraph (c) of general condition 23 will be satisfied, or explain why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required for the proposed activity.

Applicant is prepared to pay mitigation credits for any impacted wetlands or streams.

25. Is any portion of the nationwide permit activity already complete? [ ] Yes [X] No If Yes, describe the completed work:

26. List the name(s) of any species listed as endangered or threatened under the Endangered Species Act that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. (*see instructions*)

One endangered species may be present in the area
Whooping Crane (Grus Americana). IPac Resource list is attached to this document.

27. List any historic properties that have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic property or properties. (*see instructions*)

No historic properties were located in the area.

28. For a proposed NWP activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a "study river" for possible inclusion in the system while the river is in an official study status, identify the Wild and Scenic River or the "study river":

No named waterbodies are located on the target property. Unnamed waterbodies on the target property drain into Little West Blue Creek.

29. If the proposed NWP activity also requires permission from the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, have you submitted a written request for section 408 permission from the Corps district having jurisdiction over that project? [ ] Yes [X] No

If "yes", please provide the date your request was submitted to the Corps district:

30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (*see instructions*)

Please see attached page titled "30. Additional Information PCN" for additional information.

31. Pre-construction notification is hereby made for one or more nationwide permit(s) to authorize the work described in this notification. I certify that the information in this pre-construction notification is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT	DATE	SIGNATURE OF AGENT	DATE

The pre-construction notification must be signed by the person who desires to undertake the proposed activity (applicant) and, if the statement in Block 11 has been filled out and signed, the authorized agent.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.00

Instructions for Preparing a

Department of the Army

Nationwide Permit (NWP) Pre Construction Notification (PCN)

Blocks 1 through 4. To be completed by the Corps of Engineers.

Block 5. Applicant's Name. Enter the name and the e-mail address of the responsible party or parties. If the responsible party is an agency, company, corporation, or other organization, indicate the name of the organization and responsible officer and title. If more than one party is associated with the preconstruction notification, please attach a sheet of paper with the necessary information marked Block 5.

Block 6. Address of Applicant. Please provide the full address of the party or parties responsible for the PCN. If more space is needed, attach an extra sheet of paper marked Block 6.

Block 7. Applicant's Telephone Number(s). Please provide the telephone number where you can usually be reached during normal business hours.

Blocks 8 through 11. To be completed, if you choose to have an agent.

Block 8. Authorized Agent's Name and Title. Indicate name of individual or agency, designated by you, to represent you in this process. An agent can be an attorney, builder, contractor, engineer, consultant, or any other person or organization. Note: An agent is not required.

Blocks 9 and 10. Agent's Address and Telephone Number. Please provide the complete mailing address of the agent, along with the telephone number where he / she can be reached during normal business hours.

Block 11. Statement of Authorization. To be completed by the applicant, if an agent is to be employed.

Block 12. Proposed Nationwide Permit Activity Name or Title. Please provide a name identifying the proposed NWP activity, e.g., Windward Marina, Rolling Hills Subdivision, or Smith Commercial Center.

Block 13. Name of Waterbody. Please provide the name (if it has a name) of any stream, lake, marsh, or other waterway to be directly impacted by the NWP activity. If it is a minor (no name) stream, identify the waterbody the minor stream enters.

Block 14. Proposed Activity Street Address. If the proposed NWP activity is located at a site having a street address (not a box number), please enter it in Block 14.

Block 15. Location of Proposed Activity. Enter the latitude and longitude of where the proposed NWP activity is located. Indicate whether the project location provided is the center of the project or whether the project location is provided as the latitude and longitude for each of the "corners" of the project area requiring evaluation. If there are multiple sites, please list the latitude and longitude of each site (center or corners) on a separate sheet of paper and mark as Block 15.

Block 16. Other Location Descriptions. If available, provide the Tax Parcel Identification number of the site, Section, Township, and Range of the site (if known), and / or local Municipality where the site is located.

Block 17. Directions to the Site. Provide directions to the site from a known location or landmark. Include highway and street numbers as well as names. Also provide distances from known locations and any other information that would assist in locating the site. You may also provide a description of the location of the proposed NWP activity, such as lot numbers, tract numbers, or you may choose to locate the proposed NWP activity site from a known point (such as the right descending bank of Smith Creek, one mile downstream from the Highway 14 bridge). If a large river or stream, include the river mile of the proposed NWP activity site if known. If there are multiple locations, please indicate directions to each location on a separate sheet of paper and mark as Block 17.

Block 18. Identify the Specific Nationwide Permit(s) You Propose to Use. List the number(s) of the Nationwide Permit(s) you want to use to authorize the proposed activity (e.g., NWP 29).

Block 19. Description of the Proposed Nationwide Permit Activity. Describe the proposed NWP activity, including the direct and indirect adverse environmental effects the activity would cause. The description of the proposed activity should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal. Identify the materials to be used in construction, as well as the methods by which the work is to be done.

Provide sketches when necessary to show that the proposed NWP activity complies with the terms of the applicable NWP(s). Sketches usually clarify the activity and result in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed NWP activity (e.g.,a conceptual plan), but do not need to be detailed engineering plans.

The written descriptions and illustrations are an important part of the application. Please describe, in detail, what you wish to do. If more space is needed, attach an extra sheet of paper marked Block 19.

Block 20. Description of Proposed Mitigation Measures. Describe any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed NWP activity. The description of any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or additional mitigation measures.

Block 21. Purpose of Nationwide Permit Activity. Describe the purpose and need for the proposed NWP activity. What will it be used for and why? Also include a brief description of any related activities associated with the proposed project. Provide the approximate dates you plan to begin and complete all work.

Block 22. Quantity of Wetlands, Streams, or Other Types of Waters Directly Affected by the Proposed Nationwide Permit Activity. For discharges of dredged or fill material into waters of the United States, provide the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained by the proposed NWP activity. For structures or work in navigable waters of the United States subject to Section 10 of the Rivers and Harbors Act of 1899, provide the amount of navigable waters filled, dredged, or occupied by one or more structures (e.g., aids to navigation, mooring buoys) by the proposed NWP activity.

For multiple NWPs, or for separate and distant crossings of waters of the United States authorized by NWPs 12 or 14, attach an extra sheet of paper marked Block 21 to provide the quantities of wetlands, streams, or other types of waters filled, flooded, excavated, or drained (or dredged or occupied by structures, if in waters subject to Section 10 of the Rivers and Harbors Act of 1899) for each NWP. For NWPs 12 and 14, include the amount of wetlands, streams, or other types of waters filled, flooded, excavated, or drained for each separate and distant crossing of waters or wetlands. If more space is needed, attach an extra sheet of paper marked Block 22.

Block 23. Identify Any Other Nationwide Permit(s), Regional General Permit(s), or Individual Permit(s) Used to Authorize Any Part of Proposed Activity or Any Related Activity. List any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity. For linear projects, list other separate and distant crossings of waters and wetlands authorized by NWPs 12 or 14 that do not require PCNs. If more space is needed, attach an extra sheet of paper marked Block 23.

Block 24. Compensatory Mitigation Statement for Losses of Greater Than 1/10-Acre of Wetlands When Pre-Construction Notification is Required. Paragraph (c) of NWP general condition 23 requires compensatory mitigation at a minimum one-for-one replacement ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation is more environmentally appropriate or the adverse environmental effects of the proposed NWP activity are no more than minimal without compensatory mitigation, and provides an activity-specific waiver of this requirement. Describe the proposed compensatory mitigation for wetland losses greater than 1/10 acre, or provide an explanation of why the district engineer should not require wetland compensatory mitigation for the proposed NWP activity. If more space is needed, attach an extra sheet of paper marked Block 24.

Block 25. Is Any Portion of the Nationwide Permit Activity Already Complete? Describe any work that has already been completed for the NWP activity.

Block 26. List the Name(s) of Any Species Listed As Endangered or Threatened under the Endangered Species Act that Might be Affected by the Nationwide Permit Activity. If you are not a federal agency, and if any listed species or designated critical habitat might be affected or is in the vicinity of the proposed NWP activity, or if the proposed NWP activity is located in designated critical habitat, list the name(s) of those endangered or threatened species that might be affected by the proposed NWP activity or utilize the designated critical habitat that might be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 7 of the Endangered Species Act.

Block 27. List Any Historic Properties that Have the Potential to be Affected by the Nationwide Permit Activity. If you are not a Federal agency, and if any historic properties have the potential to be affected by the proposed NWP activity, list the name(s) of those historic properties that have the potential to be affected by the proposed NWP activity. If you are a Federal agency, and the proposed NWP activity requires a PCN, you must provide documentation demonstrating compliance with Section 106 of the National Historic Preservation Act.

Block 28. List the Wild and Scenic River or Congressionally Designated Study River if the Nationwide Permit Activity Would Occur in such a River. If the proposed NWP activity will occur in a river in the National Wild and Scenic River System or in a river officially designated by Congress as a "study river" under the Wild and Scenic Rivers Act, provide the name of the river. For a list of Wild and Scenic Rivers and study rivers, please visit http://www.rivers.gov/.

Block 29. Nationwide Permit Activities that also Require Permission from the Corps Under 33 U.S.C. 408. If the proposed NWP activity also requires permission from the Corps under 33 U.S.C. 408 because it will temporarily or permanently alter, occupy, or use a Corps federal authorized civil works project, indicate whether you have submitted a written request for section 408 permission from the Corps district having jurisdiction over that project.

Block 30. Other Information Required For Nationwide Permit Pre Construction Notifications. The terms of some of the Nationwide Permits include additional information requirements for preconstruction notifications:

* NWP 3, Maintenance –information regarding the original design capacities and configurations of the outfalls, intakes, small impoundments, and canals.
* NWP 31, Maintenance of Existing Flood Control Facilities –a description of the maintenance baseline and the dredged material disposal site.
* NWP 33, Temporary Construction, Access, and Dewatering –a restoration plan showing how all temporary fills and structures will be removed and the area restored to pre-project conditions.
* NWP 44, Mining Activities –if reclamation is required by other statutes, then a copy of the final reclamation plan must be submitted with the pre construction notification.
* NWP 45, Repair of Uplands Damaged by Discrete Events –documentation, such as a recent topographic survey or photographs, to justify the extent of the proposed restoration.
* NWP 48, Commercial Shellfish Aquaculture Activities –(1) a map showing the boundaries of the project area, with latitude and longitude coordinates for each corner of the project area; (2) the name(s) of the species that will be cultivated during the period this NWP is in effect; (3) whether canopy predator nets will be used; (4) whether suspended cultivation techniques will be used; and (5) general water depths in the project area (a detailed survey is not required).
* NWP 49, Coal Remining Activities –a document describing how the overall mining plan will result in a net increase in aquatic resource functions must be submitted to the district engineer and receive written authorization prior to commencing the activity.
* NWP 50, Underground Coal Mining Activities –if reclamation is required by other statutes, then a copy of the reclamation plan must be submitted with the pre-construction notification.

If more space is needed, attach an extra sheet of paper marked Block 30.

Block 31. Signature of Applicant or Agent. The PCN must be signed by the person proposing to undertake the NWP activity, and if applicable, the authorized party (agent) that prepared the PCN. The signature of the person proposing to undertake the NWP activity shall be an affirmation that the party submitting the PCN possesses the requisite property rights to undertake the NWP activity (including compliance with special conditions, mitigation, etc.).

DELINEATION OF WETLANDS, OTHER SPECIAL AQUATIC SITES, AND OTHER WATERS

Each PCN must include a delineation of wetlands, other special aquatic sites, and other waters, such as lakes and ponds, and perennial, intermittent, and ephemeral streams, on the project site. Wetland delineations must be prepared in accordance with the current wetland delineation manual and regional supplement published by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. The 45 day PCN review period will not start until the delineation is submitted or has been completed by the Corps.

DRAWINGS AND ILLUSTRATIONS

General Information.

Three types of illustrations are needed to properly depict the work to be undertaken. These illustrations or drawings are identified as a Vicinity Map, a Plan View or a Typical Cross-Section Map. Identify each illustration with a figure or attachment number. For linear projects (e.g. roads, subsurface utility lines, etc.) gradient drawings should also be included. Please submit one original, or good quality copy, of all drawings on 8½x11 inch plain white paper (electronic media may be substituted). Use the fewest number of sheets necessary for your drawings or illustrations. Each illustration should identify the project, the applicant, and the type of illustration (vicinity map, plan view, or cross-section). While illustrations need not be professional (many small, private project illustrations are prepared by hand), they should be clear, accurate, and contain all necessary information.

ADDITIONAL INFORMATION AND REQUIREMENTS

For proposed NWP activities that involve discharges into waters of the United States, water quality certification from the State, Tribe, or EPA must be obtained or waived (see NWP general condition 25). Some States, Tribes, or EPA have issued water quality certification for one or more NWPs. Please check the appropriate Corps district web site to see if water quality certification has already been issued for the NWP(s) you wish to use. For proposed NWP activities in coastal states, state Coastal Zone Management Act consistency concurrence must be obtained, or a presumption of concurrence must occur (see NWP general condition 26). Some States have issued Coastal Zone Management Act consistency concurrences for one or more NWPs. Please check the appropriate Corps district web site to see if Coastal Zone Management Act consistency concurrence has already been issued for the NWP(s) you wish to use.

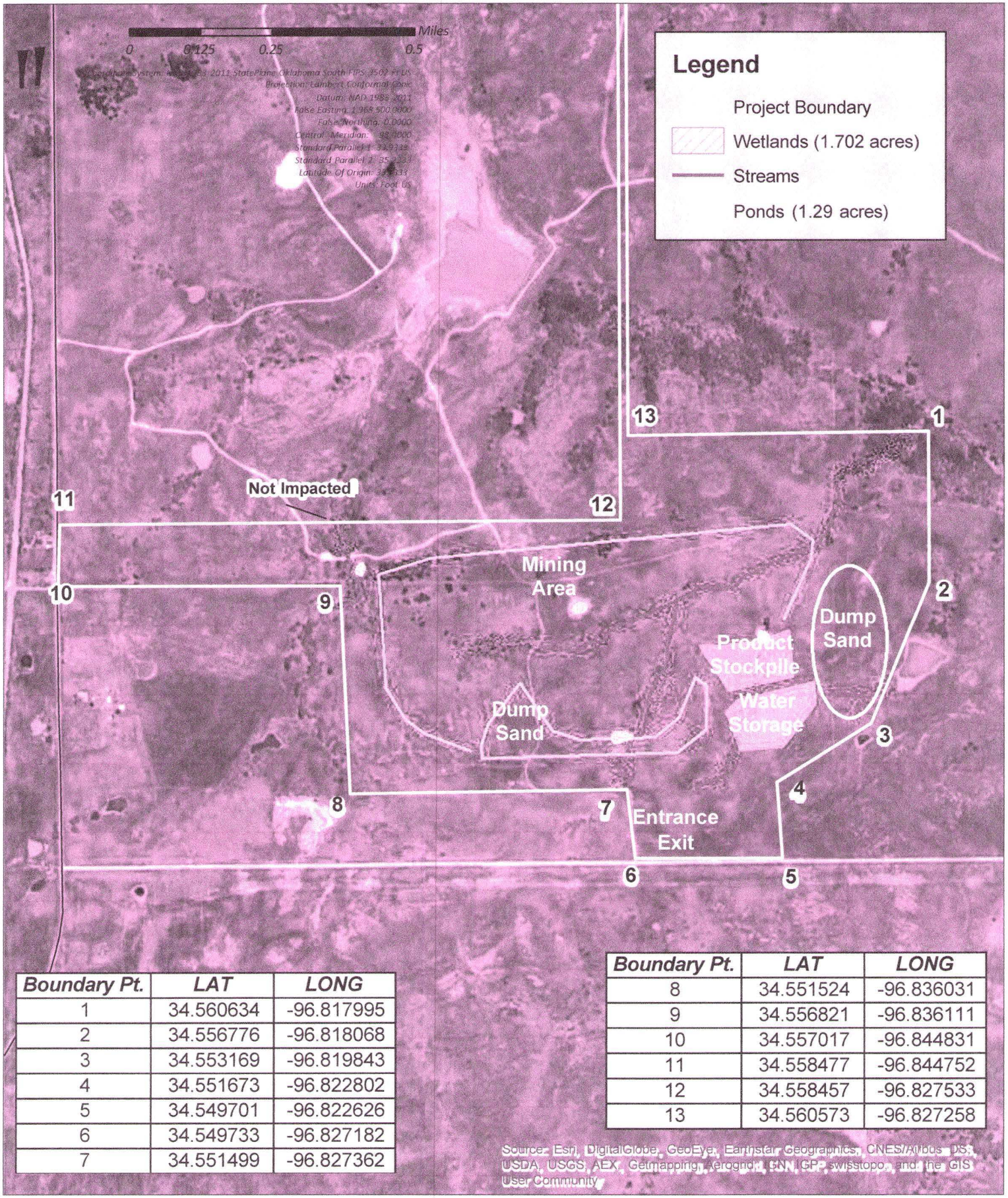
30. If the terms of the NWP(s) you want to use require additional information to be included in the PCN, please include that information in this space or provide it on an additional sheet of paper marked Block 30. (*see instructions*)

The water storage pond will be less than 15 foot deep with a spillway to control the depth and store under 50 acre-ft of water. All water from the pond would be captured in the pit if it were to discharge from spillway or fail. The water storage pond was designed to be a non-regulated structure (less than 25-foot-high dam, less than 50-acre foot storage).

The deepest part of the mine will be 137 feet deep in hard rock consolidated dolomite with the top of the mine being at 1,202 and the bottom being at 1,065. Because it is in the consolidated dolomite rock, it requires no setback beyond the minimum 25'.

The east overburden dump has a maximum elevation of 1,275 and a maximum height of 60 feet. The west overburden dump has a maximum elevation of 1,300 feet and a maximum height of 70 feet. Both overburden soil piles will be utilized for reclamation. All of the external soil pile slopes that face away from the pit will be constructed at 3h:1v slopes.

Slopes facing the pit will be built at 1.5h:1v and will be pushed back into the pit and graded once mining passes them. The entire overburden soil pile capacity may or may not be used as any overburden stripping that can be placed back in the mined-out pit at the time of stripping will be dumped directly in the pit and graded. The sand stockpile has a maximum elevation of 1,255 feet and a maximum height of 37 feet. All of the external sand stockpile slopes that face away from the pit will be constructed at 3h:1v slopes.



Boundary Pt.	LAT	LONG
1	34.560634	-96.817995
2	34.556776	-96.818068
3	34.553169	-96.819843
4	34.551673	-96.822802
5	34.549701	-96.822626
6	34.549733	-96.827182
7	34.551499	-96.827362

Boundary Pt.	LAT	LONG
8	34.551524	-96.836031
9	34.556821	-96.836111
10	34.557017	-96.844831
11	34.558477	-96.844752
12	34.558457	-96.827533
13	34.560573	-96.827258

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

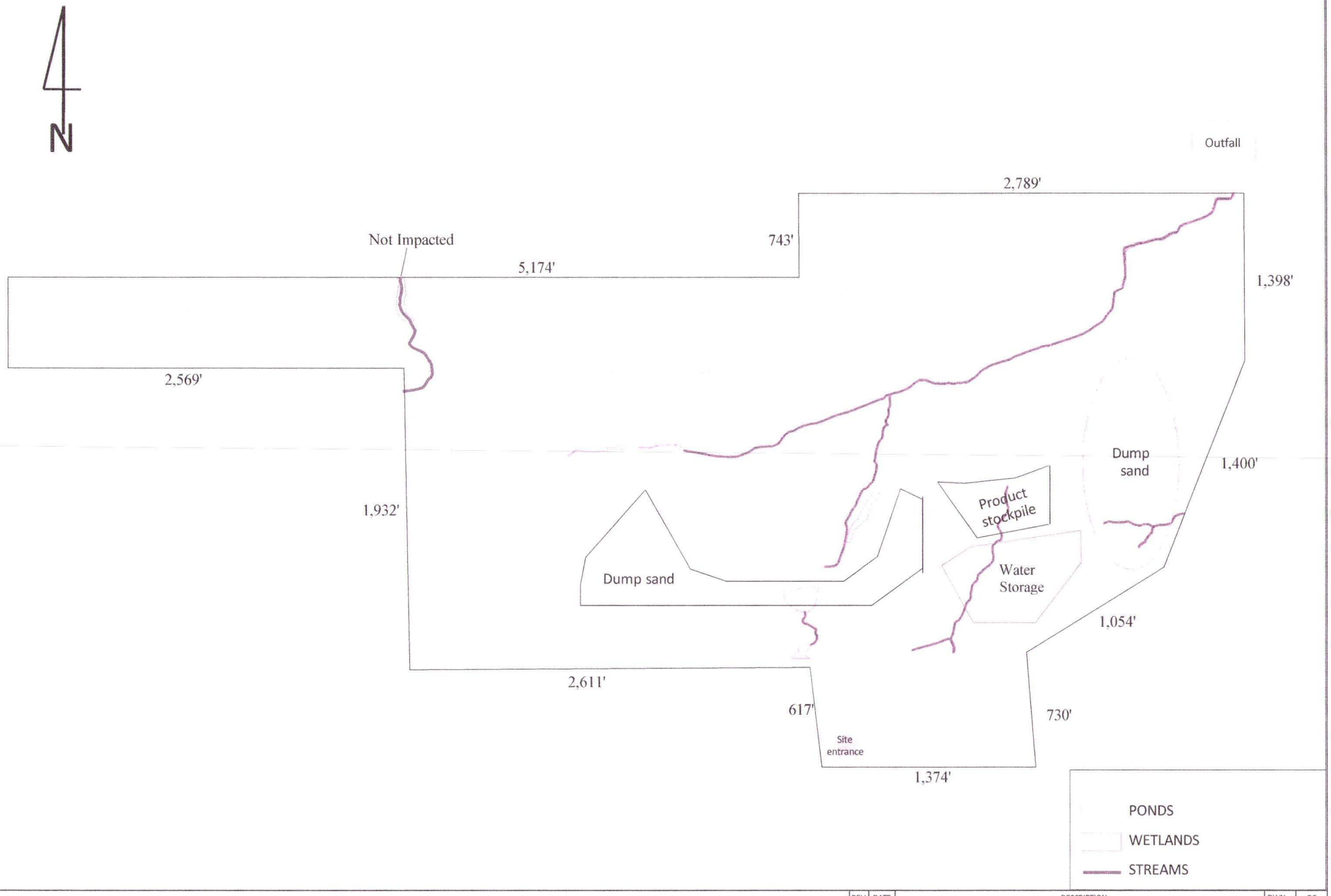
Covia Solutions

Covia Sunshine Rd Sandmine Location
34°33'19.30"N, 96°49'36.08"W
Pontotoc & Murray Counties, OK

OVERVIEW

REV	DATE	DESCRIPTION	DWN
			RJF

SHEET 1 OF 1 | PROJ. #: 2024051 | DATE SAVED: 11/7/2024 3:14:42 PM | AUTHOR: Trusted Compliance, LLC | DOCU MENT NA ME: 2024051_Covia_SunshineRd_Wetland



OVERVIEW

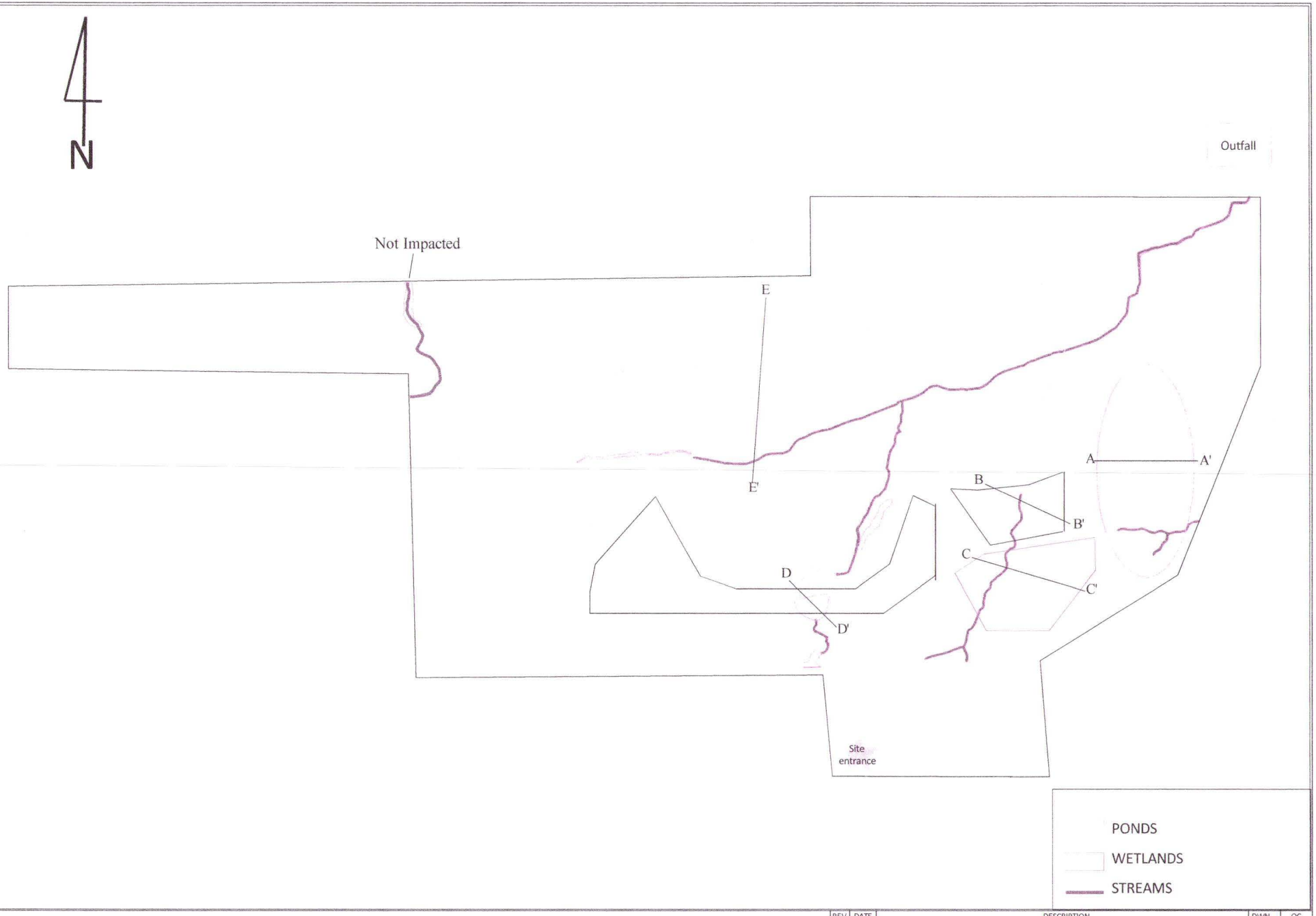
COVIA SOLUTIONS, LLC

PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

REV	DATE	DESCRIPTION	DWN	QC

SHEET 1 OF 1	Origin Date: 07/29/2024	COORD: NOT TO SCALE	Proj. No.: 2024042	AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES



OVERVIEW

COVIA SOLUTIONS, LLC

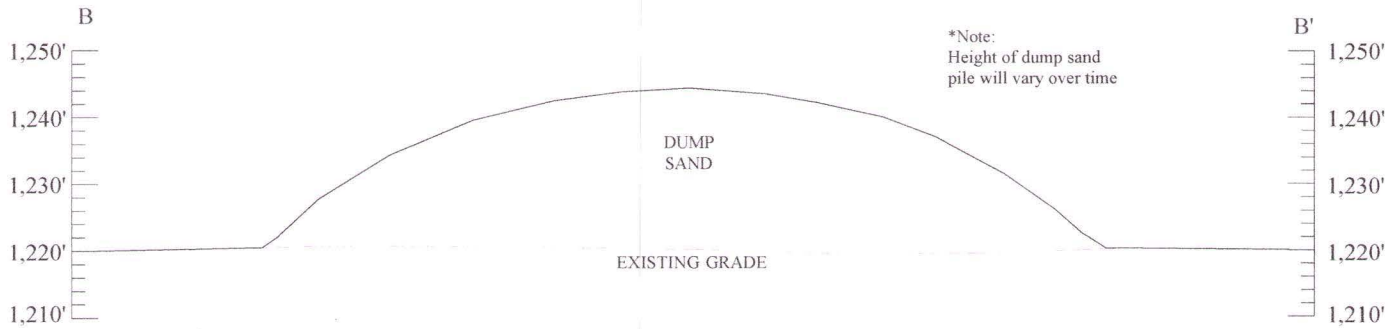
PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

REV	DATE	DESCRIPTION	DWN	QC

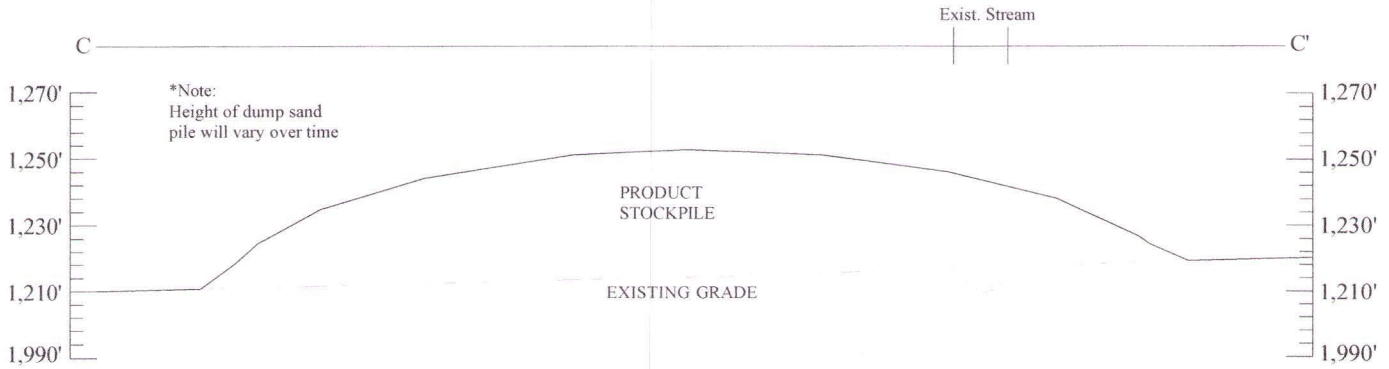
SHEET 1 OF 1	Origin Date: 07/29/2024	COORD: NOT TO SCALE	Proj. No.: 2024042	AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES

A-A' DUMP SAND



B-B' PRODUCT STOCKPILE



CROSS SECTION

REV	DATE	DESCRIPTION	DWN	QC

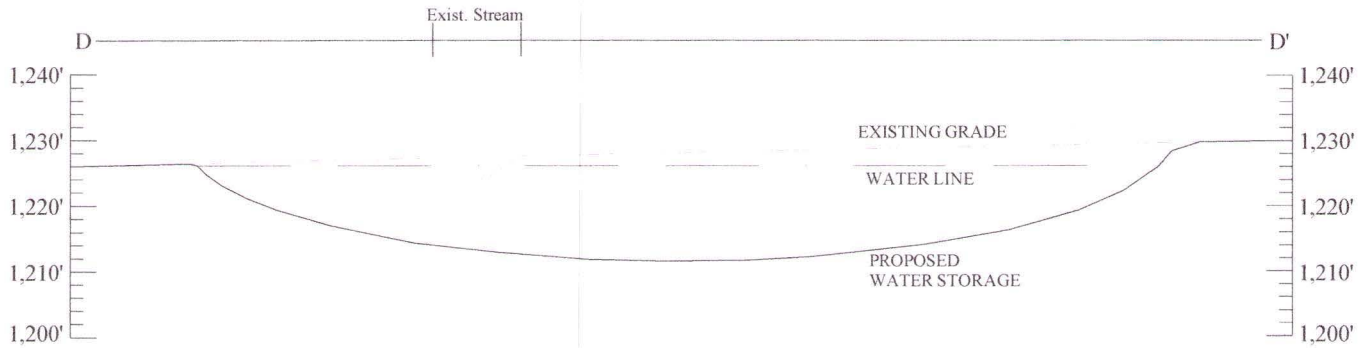
COVIA SOLUTIONS, LLC

PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

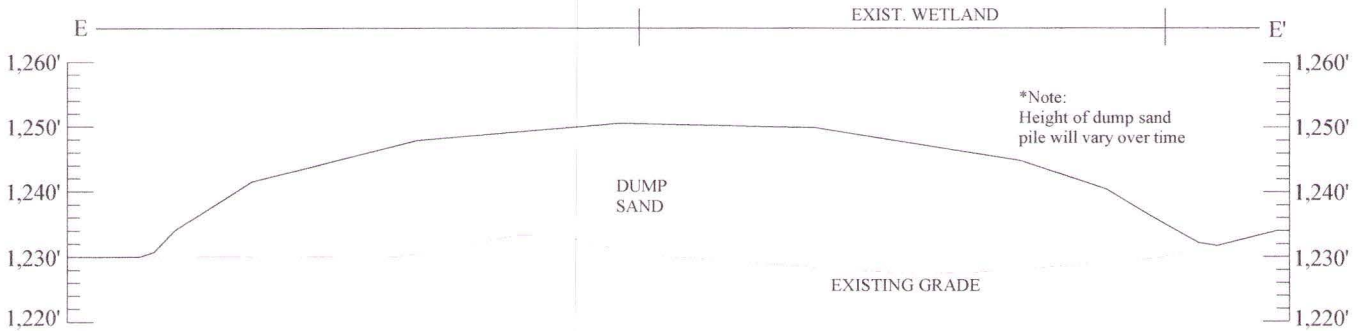
SHEET 1 OF 1	Origin Date: 10/25/2024	COORD: NOT TO SCALE	Proj. No.: 2024051	AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES

C-C' WATER STORAGE



D-D' DUMP SAND 2



CROSS SECTION

REV	DATE	DESCRIPTION	DWN	QC

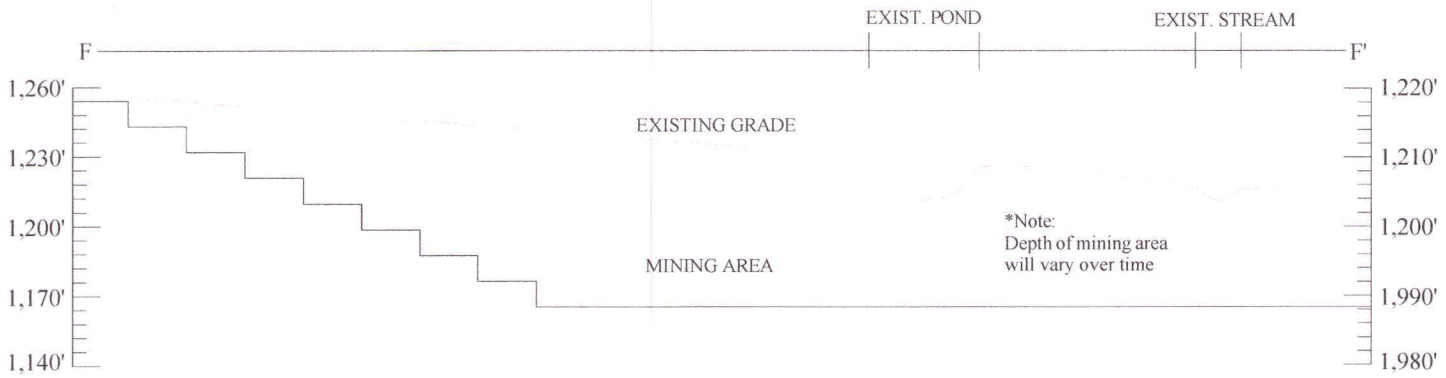
COVIA SOLUTIONS, LLC

PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

SHEET 1 OF 1	Origin Date: 10/25/2024	COORD: NOT TO SCALE	Proj. No.: 2024051	AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES

E-E' MINING AREA



COVIA SOLUTIONS, LLC

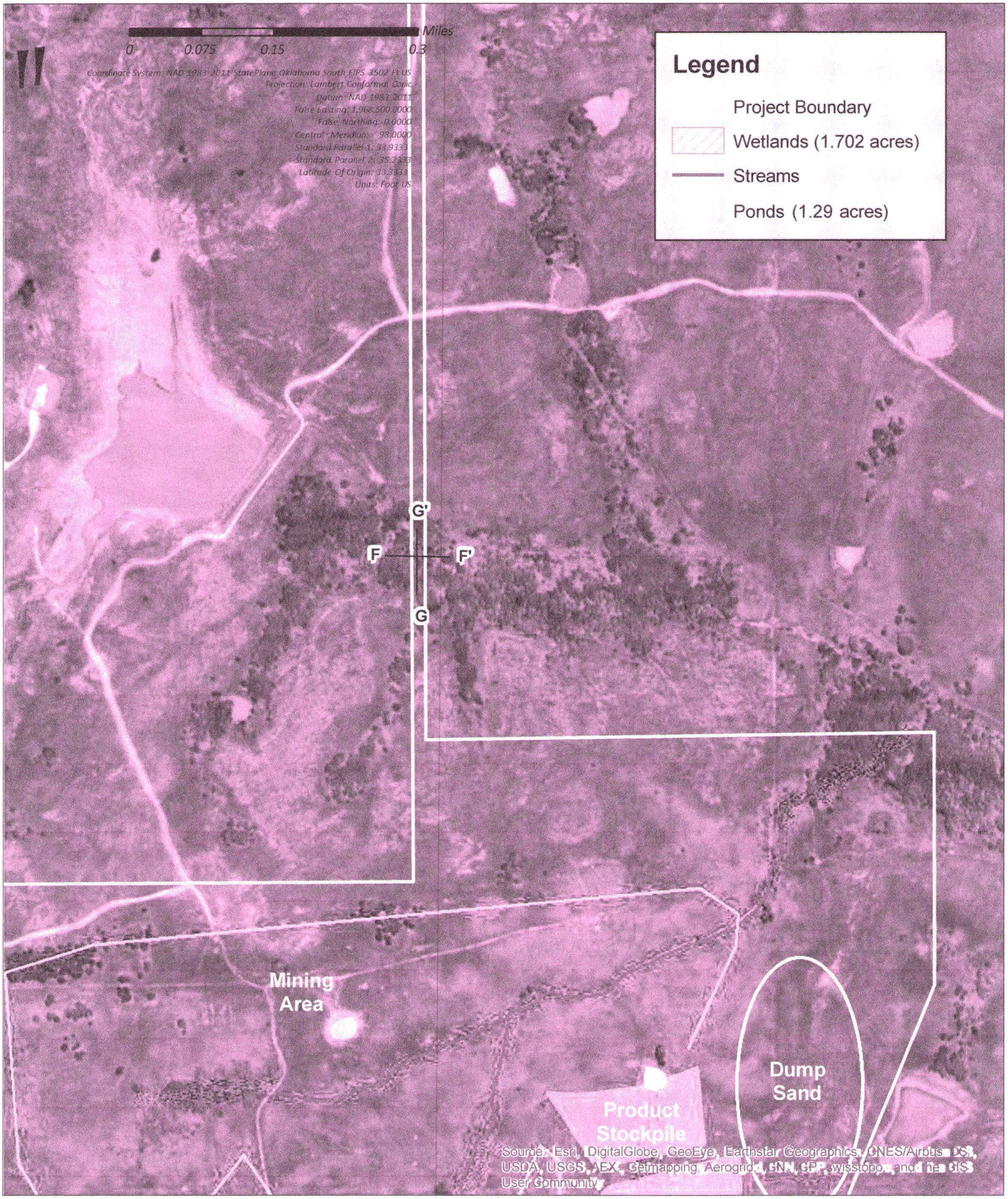
PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

CROSS SECTION

REV	DATE	DESCRIPTION	DWN	QC

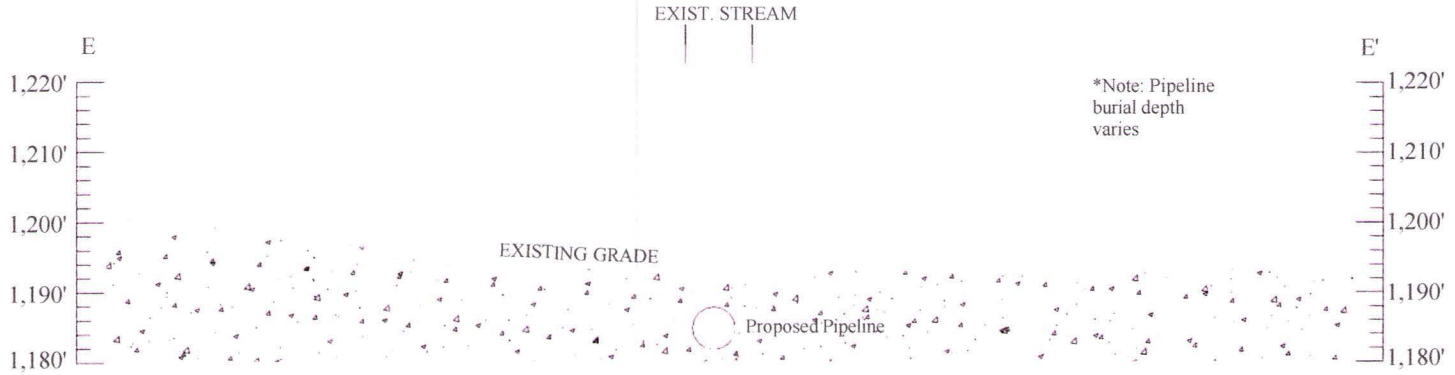
SHEET 1 OF 1	Origin Date: 10/25/2024	COORD: NOT TO SCALE	Proj. No.: 2024051	AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES



Covia Solutions	Covia Sunshine Rd Sandmine Location 34°33'19.30"N, 96°49'36.08"W Pontotoc & Murray Counties, OK	G/F CROSS SECTION	REV	DATE	DESCRIPTION	DWN RJF
SHEET 1 OF 1	PROJ. #: 2024051	DATE SAVED: 11/7/2024 3:14:42 PM	AUTHOR: Trusted Compliance, LLC		DOCU MENT NA ME: 2024051_Covia_SunshineRd_Wetland	

F-F' PIPELINE



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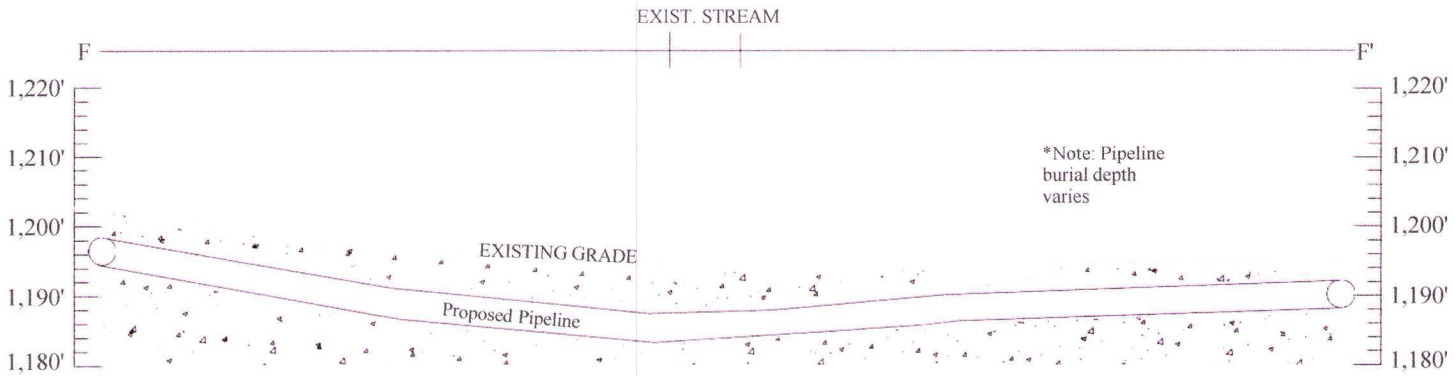


COVIA SOLUTIONS, LLC

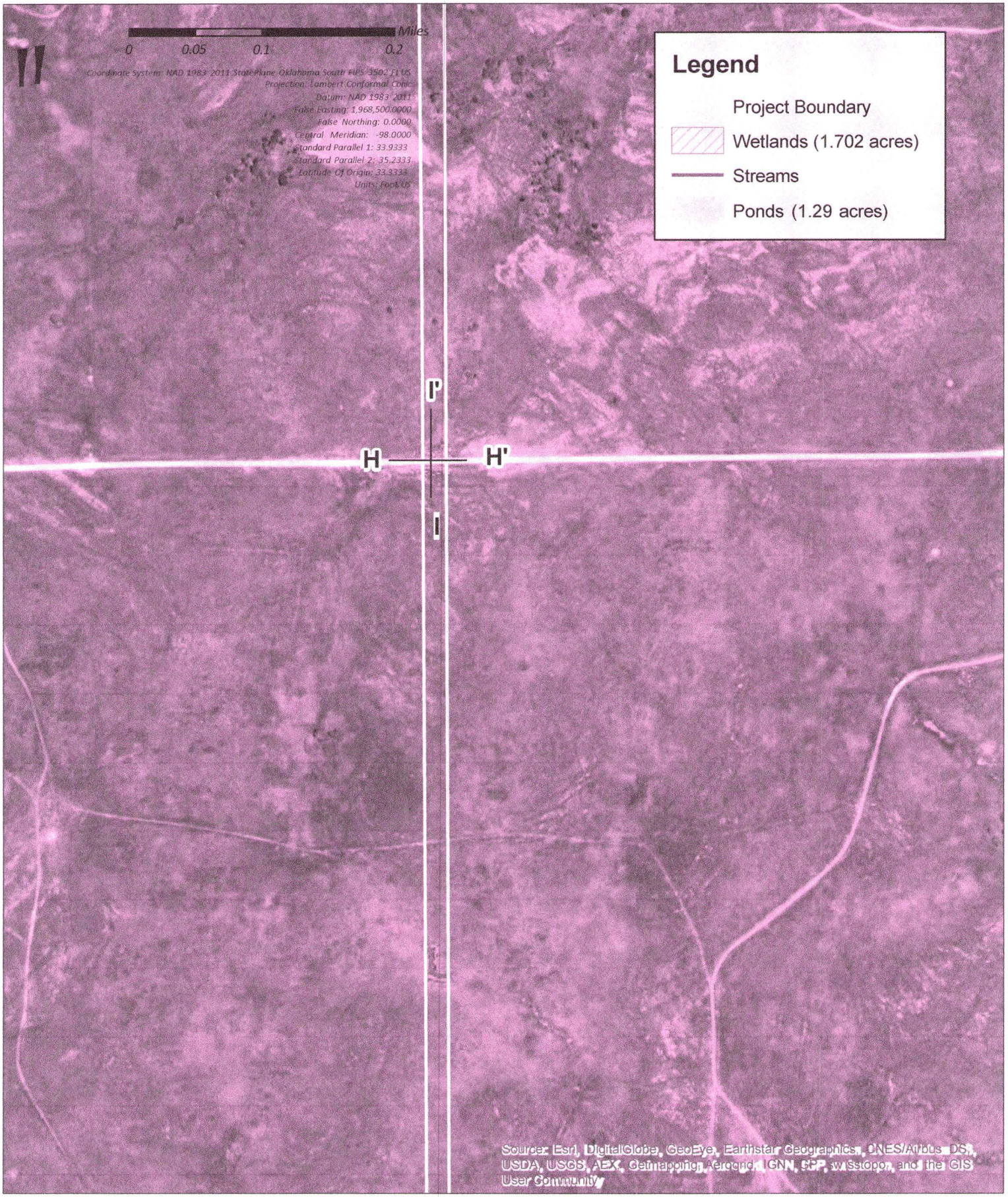
PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

CROSS SECTION

REV	DATE	DESCRIPTION	DWN	QC

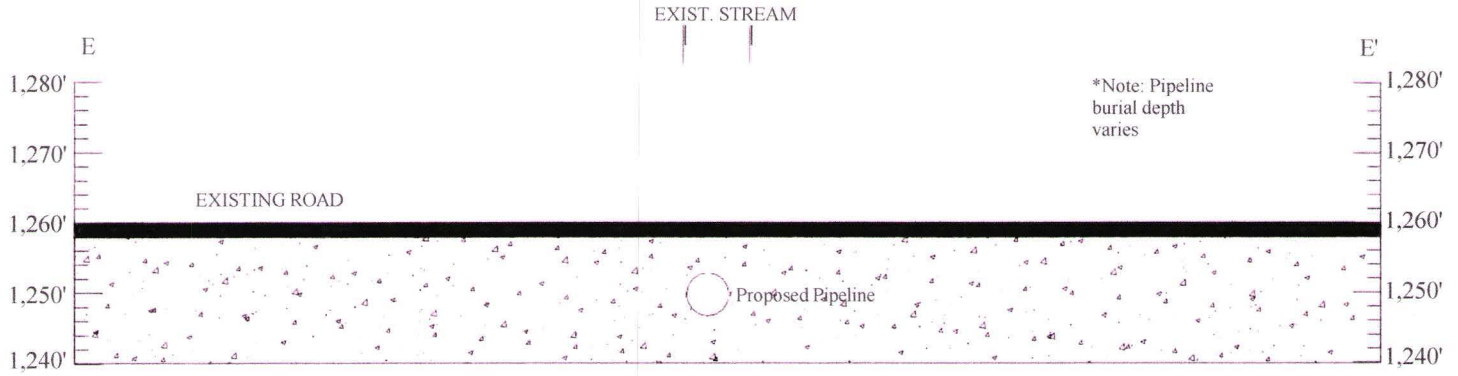
SHEET 1 OF 1	Origin Date: 10/25/2024	COORD: NOT TO SCALE	Proj. No.: 2024051	AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES

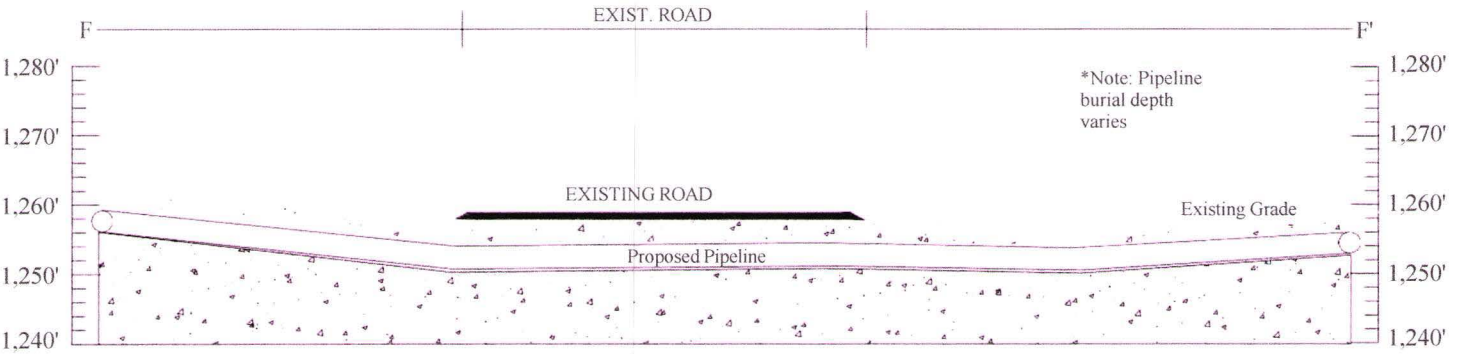


Covia Solutions	Covia Sunshine Rd Sandmine Location 34°33'19.30"N, 96°49'36.08"W Pontotoc & Murray Counties, OK	*H/I CROSS SECTION*	REV	DATE	DESCRIPTION	DWN RJF
SHEET 1 OF 1	PROJ. #: 2024051	DATE SAVED: 11/7/2024 3:14:42 PM	AUTHOR: Trusted Compliance, LLC		DOCU MENT NA ME: 2024051_Covia_SunshineRd_Wetland	

H-H' PIPELINE



I-I' PIPELINE



COVIA SOLUTIONS, LLC

PROPOSED SANDMINE
PONTOTOC COUNTY, OKLAHOMA
LAT=34°33'19.30"N, LON=96°49'36.08"W

CROSS SECTION

REV	DATE	DESCRIPTION	DWN	QC

SHEET 1 OF 1 | Origin Date: 10/25/2024 | COORD: NOT TO SCALE | Proj. No.: 2024051 | AUTHOR: TRUSTED COMPLIANCE

FILE: C:Trusted Compliance\GIS & Drafting\PROJ FILES

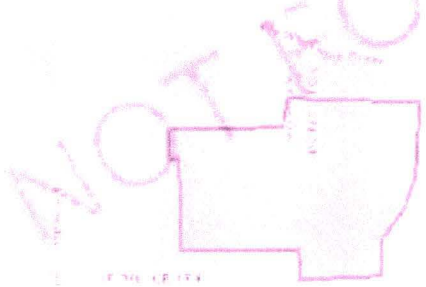
IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources)* under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Murray and Pontotoc counties, Oklahoma



Local office

Oklahoma Ecological Services Field Office

(918) 581-7458
(918) 581-7467

9014 East 21st Street
Tulsa, OK 74129-1428

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species1 and their critical habitats are managed by the Ecological Services Program of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA FisheriesZ).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact NOAA Fisheries for species under their jurisdiction.

1. Species listed under the Endangered Species Act are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the listing status page for more information. IPaC only shows species that are regulated by USFWS (see FAQ).

2. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

The following species are potentially affected by activities in this location:

Mammals

NAME	STATUS
Tricolored Bat Perimyotis subflavus Wherever found **No critical habitat has been designated for this species.** https://ecos.fws.gov/ecp/species/10515	**Proposed Endangered**

Birds

NAME	STATUS
Piping Plover Charadrius melodus There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/6039	Threatened
Rufa Red Knot Calidris canutus rufa Wherever found There is **proposed** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/1864	Threatened
Whooping Crane Grus americana There is **final** critical habitat for this species. Your location does not overlap the critical habitat. https://ecos.fws.gov/ecp/species/758	Endangered

Reptiles

NAME	STATUS
Alligator Snapping Turtle Macrochelys temminckii Wherever found **No critical habitat has been designated for this species.** https://ecos.fws.gov/ecp/species/4658	**Proposed Threatened**

Insects

NAME	STATUS

American Burying Beetle Nicrophorus americanus — Threatened

No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/66

Monarch Butterfly Danaus plexippus — Candidate

Wherever found

No critical habitat has been designated for this species.
https://ecos.fws.gov/ecp/species/9743

Critical habitats

Potential effects to critical habitat(s) in this location must be analyzed along with the endangered species themselves.

There are no critical habitats at this location.

You are still required to determine if your project(s) may have effects on all above listed species.

Bald & Golden Eagles

There are no documented cases of eagles being present at this location. However, if you believe eagles may be using your site, please reach out to the local Fish and Wildlife Service office.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

What does IPaC use to generate the potential presence of bald and golden eagles in my specified location?

The potential for eagle presence is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply). To see a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs of bald and golden eagles in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur. Please contact your local Fish and Wildlife Service Field Office if you have questions.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act1 and the Bald and Golden Eagle Protection Act2.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described below.

1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

The data in this location indicates there are no migratory birds of conservation concern expected to occur in this area.

There may be migratory birds in your project area, but we don't have any survey data available to provide further direction. For additional information, please refer to the links above for recommendations to minimize impacts to migratory birds or contact your local FWS office.

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS Birds of Conservation Concern (BCC) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the Avian Knowledge Network (AKN). The AKN data is based on a growing collection of survey, banding, and citizen science datasets and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (Eagle Act requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the Rapid Avian Information Locator (RAIL) Tool.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the Avian Knowledge Network (AKN). This data is derived from a growing collection of survey, banding, and citizen science datasets.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the RAIL Tool and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are Birds of Conservation Concern (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the Diving Bird Study and the nanotag studies or contact

Caleb Spiegel or Pam Loring.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to obtain a permit to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

There are no refuge lands at this location.

Fish hatcheries

There are no fish hatcheries at this location.

Wetlands in the National Wetlands Inventory (NWI)

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Wetland information is not available at this time

This can happen when the National Wetlands Inventory (NWI) map service is unavailable, or for very large projects that intersect many wetland areas. Try again, or visit the NWI map to view wetlands at this location.

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tuberficid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies.

Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate Federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.