Administrative Package Cover Page

This file contains the following documents:

1. Summary of application (in plain language)
2. First Notice (NORI-Notice of Receipt of Application and Intent to Obtain a Permit)
3. Application Materials

Plain Language Summary

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

San Miguel Electric Cooperative, Inc. (CN600132278) San Miguel lignite mine (RN100226539). The facility is located at 6200 Farm-to-Market Road 3387, Christine, in Atascosa and McMullen Counties, Texas 78012.

This application is for a renewal of the existing TPDES permit for the facility. Lignite mines are unique in that they typically have multiple ponds that receive stormwater runoff, mine depressurization water, and mine pit dewatering water, and as mining progresses within the mine permitted boundaries, more ponds and structures are periodically added.

The existing TPDES permit for the San Miguel lignite mine features 40 treatment ponds along with 39 designated outfalls. As mining progresses, and as reclamation activities take place, there are inevitably changes to the layout and sizing of the network of ponds. All of the treatment ponds are authorized to discharge at an intermittent and flow variable rate, which is necessary since the ponds are designed to capture pit water, depressurization water, and stormwater runoff from the mine area. The volume of mine pit water, depressurization water, and rainfall and ultimately stormwater runoff is highly variable. Effluent limitations include parameters of total suspended solids, dissolved iron, dissolved manganese, and pH for active mining area outfalls, and parameters of dissolved iron and pH for post-mining area outfalls. All of the effluent limitations are in accordance with Federal effluent limitation guidelines that are based on 40 CFR Part 434.

The wastewater treatment system is focused on the capture of stormwater runoff, mine depressurization water, and mine pit water. Ponds are the treatment method applied for these waste streams, and the construction details of these ponds are specified by the Texas Railroad Commission. Fundamentally, the ponds capture their intended water, and sedimentation of solids is allowed to take place.

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

NOTICE OF RECEIPT OF APPLICATION AND INTENT TO OBTAIN WATER QUALITY PERMIT RENEWAL

PERMIT NO. WQ0002043000

APPLICATION. San Miguel Electric Cooperative, Inc., P.O. Box 280, Jourdanton, Texas 78026, which owns a surface lignite mining operation, has applied to the Texas Commission on Environmental Quality (TCEQ) to renew Texas Pollutant Discharge Elimination System (TPDES) Permit No. WQ0002043000 (EPA I.D. No. TX0083445) to authorize the discharge of wastewater at an intermittent and flow-variable rate via Outfalls 001M/R-035M/R and 050M/R-054M/R. The facility is located at 6200 Farm-to-Market Road 3387, Christine, in Atascosa and McMullen Counties, Texas 78012. The discharge route is from the plant site via Outfalls 001-006 to an unnamed tributary; thence to Caballos Creek; thence to Souse Creek; thence to La Parita Creek; via Outfall 007 to an unnamed tributary; thence to La Parita Creek; via Outfall 009 to an unnamed tributary; thence to Christine Creek; thence to Metate Creek; thence to La Parita Creek; via Outfall 010 to an unnamed tributary; thence to Christine Creek; thence to Metate Creek; thence to La Parita Creek; via Outfalls 011-019 to unnamed tributaries; thence to La Parita Creek; via Outfalls 008 and 020-023 to an unnamed tributary; thence to Metate Creek; thence to La Parita Creek; via Outfalls 024-028 to an unnamed tributary; thence to Souse Creek; thence to La Parita Creek; via Outfalls 029-030 to an unnamed tributary; thence to Metate Creek; thence to La Parita Creek; via Outfall 031 to an unnamed tributary; thence to Metate Creek; thence to La Parita Creek; via Outfalls 032-033 to unnamed tributaries; and via Outfalls 034-035 to an unnamed ditch; thence to an unnamed tributary; thence all to the Atascosa River; via Outfall 050 to Hog Creek; thence to La Jarita Creek; via Outfall 051 to an unnamed tributary; thence to La Jarita Creek; via Outfall 052 to an unnamed ditch; thence to La Jarita Creek; via Outfall 053 to an unnamed tributaiy; thence all to San Miguel Creek; via Outfall 054 to a pipe culvert; thence to a ditch; thence to an unnamed tributary; thence to San Miguel Creek; thence all to San Miguel Creek. TCEQ received this application on June 9, 2025. The permit application will be available for viewing and copying at Atascosa County Clerk, 1 Courthouse, Courthouse Circle Drive, Suite 102, Jourdanton, in Atascosa County, Texas and at McMullen County Courthouse, 501 River Street, Tilden, in McMullen County, Texas prior to the date this notice is published in the newspaper. The application, including any updates, and associated notices are available electronically at the following webpage: https://www.tceq.texas.gov/permitting/wastewater/pending-permits/tpdes-applications. This link to an electronic map of the site or facility's general location is provided as a public courtesy and not part of the application or notice. For the exact location, refer to the application. https://gisweb.tceq.texas.gov/LocationMapper/?marker=-98.476944,28.704444&level=18

ADDITIONAL NOTICE. TCEQ's Executive Director has determined the application is administratively complete and will conduct a technical review of the application. After technical review of the application is complete, the Executive Director may prepare a draft permit and will issue a preliminary decision on the application. **Notice of the Application and Preliminary Decision will be published and mailed to those who are on the county-**

wide mailing list and to those who are on the mailing list for this application. That notice will contain the deadline for submitting public comments.

PUBLIC COMMENT / PUBLIC MEETING. You may submit public comments or request a public meeting on this application. The purpose of a public meeting is to provide the opportunity to submit comments or to ask questions about the application. TCEQ will hold a public meeting if the Executive Director determines that there is a significant degree of public interest in the application or if requested by a local legislator. A public meeting is not a contested case hearing.

OPPORTUNITY FOR A CONTESTED CASE HEARING. After the deadline for submitting public comments, the Executive Director will consider all timely comments and prepare a response to all relevant and material, or significant public comments. **Unless the application is directly referred for a contested case hearing, the response to comments, and the Executive Director's decision on the application, will be mailed to everyone who submitted public comments and to those persons who are on the mailing list for this application. If comments are received, the mailing will also provide instructions for requesting reconsideration of the Executive Director's decision and for requesting a contested case hearing.** A contested case hearing is a legal proceeding similar to a civil trial in state district court.

TO REQUEST A CONTESTED CASE HEARING, YOU MUST INCLUDE THE FOLLOWING ITEMS IN YOUR REQUEST: your name, address, phone number; applicant's name and proposed permit number; the location and distance of your property/activities relative to the proposed facility; a specific description of how you would be adversely affected by the facility in a way not common to the general public; a list of all disputed issues of fact that you submit during the comment period and, the statement "[I/we] request a contested case hearing." If the request for contested case hearing is filed on behalf of a group or association, the request must designate the group's representative for receiving future correspondence; identify by name and physical address an individual member of the group who would be adversely affected by the proposed facility or activity; provide the information discussed above regarding the affected member's location and distance from the facility or activity; explain how and why the member would be affected; and explain how the interests the group seeks to protect are relevant to the group's purpose.

Following the close of all applicable comment and request periods, the Executive Director will forward the application and any requests for reconsideration or for a contested case hearing to the TCEQ Commissioners for their consideration at a scheduled Commission meeting.

The Commission may only grant a request for a contested case hearing on issues the requestor submitted in their timely comments that were not subsequently withdrawn. **If a hearing is granted, the subject of a hearing will be limited to disputed issues of fact or mixed questions of fact and law relating to relevant and material water quality concerns submitted during the comment period.**

TCEQ may act on an application to renew a permit for discharge of wastewater without providing an opportunity for a contested case hearing if certain criteria are met.

MAILING LIST. If you submit public comments, a request for a contested case hearing or a reconsideration of the Executive Director's decision, you will be added to the mailing list for this specific application to receive future public notices mailed by the Office of the Chief Clerk. In addition, you may request to be placed on: (1) the permanent mailing list for a specific applicant name and permit number; and/or (2) the mailing list for a specific county.

If you wish to be placed on the permanent and/or the county mailing list, clearly specify which list(s) and send your request to TCEQ Office of the Chief Clerk at the address below.

INFORMATION AVAILABLE ONLINE. For details about the status of the application, visit the Commissioners' Integrated Database at www.tceq.texas.gov/goto/cid. Search the database using the permit number for this application, which is provided at the top of this notice.

AGENCY CONTACTS AND INFORMATION. All public comments and requests must be submitted either electronically at **https://www14.tceq.texas.gov/epic/eComment/**, or in writing to the Texas Commission on Environmental Quality, Office of the Chief Clerk, MC-105, P.O. Box 13087, Austin, Texas 78711-3087. Please be aware that any contact information you provide, including your name, phone number, email address and physical address will become part of the agency's public record. For more information about this permit application or the permitting process, please call the TCEQ Public Education Program, Toll Free, at 1-800-687-4040 or visit their website at www.tceq.texas.gov/goto/pep. Si desea información en Español, puede llamar al 1-800-687-4040.

Further information may also be obtained from San Miguel Electric Cooperative, Inc. at the address stated above or by calling Mr. David Burris, P.E., Fuels Manager, at 830-784-3411.

Issuance Date: July 1, 2025

Erwin Madrid

From: Frisbee, Nellie <nfrisbee@smeci.net>
Sent: Monday, June 30, 2025 2:11 PM
To: Erwin Madrid
Cc: Burris, Dave W.; 'James Miertschin'
Subject: RE: [EXTERNAL]RE: [EXTERNAL]Application for Permit No. WQ0002043000 - Notice of Deficiency Letter - San Miguel Response

Thank you for your explanation, we agree with not including the segments in this first notice. No additional questions or concerns from us.

From: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Sent: Monday, June 30, 2025 2:07 PM
To: Frisbee, Nellie <nfrisbee@smeci.net>
Cc: Burris, Dave W. <dburris@smeci.net>; 'James Miertschin' <jm@jmaenv.com>
Subject: [EXTERNAL]RE: [EXTERNAL]Application for Permit No. WQ0002043000 - Notice of Deficiency Letter - San Miguel Response

Hi Nellie,

Thank you for providing the response so promptly. To your point regarding the segment numbers in the NORI, it is our practice not to include segments in the first notice since the permit application will pass through a water quality standard review after the application in declared administratively complete and the information about the segments may or may not change; therefore, it is left out of the NORI. It will include the segments in the second Notice (NAPD) upon technical review completion.

I hope this information helps, but please let me know if you have any questions/concerns with the NORI.

Regards,

Erwin Madrid
Team Lead
ARP Team | Water Quality Division
512-239-2191
Texas Commission on Environmental Quality

From: Frisbee, Nellie <nfrisbee@smeci.net>
Sent: Monday, June 30, 2025 11:51 AM
To: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Cc: Burris, Dave W. <dburris@smeci.net>; 'James Miertschin' <jm@jmaenv.com>
Subject: RE: [EXTERNAL]Application for Permit No. WQ0002043000 - Notice of Deficiency Letter - San Miguel Response

Dear Mr. Madrid,

San Miguel Electric Cooperative, Inc. (SMECI) has reviewed the Notice of Deficiency letter dated June 24, 2025. In the application, it was noted that some of the outfalls from the San Miguel Lignite Mine flow to the Lower Atascosa River Segment 2107. The other outfalls for the San Miguel Lignite Mine flow to San Miguel Creek Segment 2108. However, the stream segments are not given in the June 24, 2025 Notice of Deficiency Letter. SMECI feels that for clarity, the stream segments should be included in the public notice.

Our suggested changes are:

- On Page 1, in the third sentence from the bottom, it should read, "thence all to the Lower Atascosa River Segment 2107."
- On Page 2, in the second sentence from the top of the page, it should read, "thence all to San Miguel Creek Segment 2108."

Please let me know if you have any questions.
Thank you,

Nellie Frisbee
Permit Compliance Coordinator

SAN MIGUEL
ELECTRIC COOPERATIVE
INCORPORATED

P.O. Box 280
Jourdanton, TX 78026
Office: 830.784.3411 Ext: 203
Cell: 903.388.5023
Email: nfrisbee@smeci.net

From: Erwin Madrid <Erwin.Madrid@tceq.texas.gov>
Sent: Tuesday, June 24, 2025 3:51 PM
To: Burris, Dave W. <dburris@smeci.net>
Cc: jm@jmaenv.com
Subject: [EXTERNAL]Application for Permit No. WQ0002043000 - Notice of Deficiency Letter
Importance: High

Dear applicant,

The attached Notice of Deficiency letter sent on **June 24, 2025**, requests additional information needed to declare the application administratively complete. Please send the complete response to my attention by **July 8, 2025**.

Regards,

Erwin Madrid
Team Lead
ARP Team | Water Quality Division
512-239-2191
Texas Commission on Environmental Quality

JAMES MIERTSCHIN & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERING (TBPE F-2458)
P.O. BOX 162305 ° AUSTIN, TEXAS 78716-2305 ° (512) 327-2708

June 9, 2025

Water Quality Applications Team
Texas Commission on Environmental Quality
Applications Review and Processing Team (MC148)
Building F, Room 2101
12100 Park 35 Circle
Austin, Texas 78753

RE: San Miguel Electric Cooperative, Inc. (SMECI)
TPDES Permit No. 0002043000
Renewal Application

Dear Wastewater Permitting Section:

Enclosed is the Texas Pollutant Discharge Elimination System (TPDES) permit renewal application submitted on behalf of San Miguel Electric Cooperative, Inc. (SMECI) by James Miertschin & Associates, Inc. This application pertains to SMECI's lignite mine located near Christine in Atascosa County, Texas.

This submittal includes one original and two copies of the complete application package. In addition, an electronic version has been submitted to the agency. The application fee has been submitted by ACH through ePay, and a copy of the payment voucher is included for reference.

This renewal application supersedes the previously submitted application filed on April 4, 2022, and supplemented on June 13, 2023. That earlier application was the subject of a contested case hearing but has now been formally remanded to the Executive Director pursuant to Order No. 7 issued on June 4, 2025 by the State Office of Administrative Hearings (TCEQ Docket No. 2024-0027-IWD/SOAH Docket No. 582-24-14120). Unlike the prior submissions, this application does not include a major amendment and instead reflects a standard renewal incorporating certain updated information.

Please do not hesitate to contact us if you have any questions or need additional information. You may contact me at (512) 327-2708 or Dave Burris, the facility Fuels Manager, at (830) 784-3411.

Yours truly,

JAMES MIERTSCHIN & ASSOCIATES, INC.

James Miertschin, PE, PhD

6/09/2025

cc: Dave Burris, Fuels Manager
Ali Abazari, Jackson Walker LLP

JAMES MIERTSCHIN & ASSOCIATES, INC.
ENVIRONMENTAL ENGINEERING (TBPE F-2458)
P.O. BOX 162305 ° AUSTIN, TEXAS 78716-2305 ° (512) 327-2708

APPLICATION FOR INDUSTRIAL WASTEWATER PERMIT RENEWAL

(TPDES PERMIT NO. 0002043000)

San Miguel Electric Cooperative, Inc.
Lignite Mine

Submitted to:

Texas Commission on Environmental Quality

June 9, 2025

TABLE OF CONTENTS

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

LIGNITE MINE PERMIT RENEWAL

Cover Letter

Administrative Report 1.0

Industrial Technical Report 1.0

Worksheet 1.0 EPA Categorical Effluent Guidelines

Worksheet 2.0 Pollutant Analyses Requirements

Worksheet 4.0 Receiving Waters

Worksheet 5.0 Sewage Sludge Management and Disposal

Worksheet 7.0 Storm Water Runoff

LIST OF EXHIBITS TO APPLICATION

Exhibit	Title	Application Reference	Content
A1	ePay Voucher		
A	Core Data Form	Admin 1.0, Pg. 4, Item 4	Applicant information
B	Public Places	Admin 1.0, Pg. 6, Item 9.d	Two public places
C	Plain Language	Admin 1.0, Pg. 7, Item 9.f	Plain language summary
D	Public Plan	Admin 1.0, Pg. 7, Item 9.g	Public involvement plan form
E	Leases	Admin 1.0, Pg. 8, Item 9.f	
F	USGS Maps	Admin 1.0, Pg. 8, Item 11.b	Property boundaries, treatment facility boundaries, discharge points, 3 mi downstream, ponds
G	SPIF	Admin 1.1, Pg. 14	Permit information with attachments
H	Facility Map	Tech 1.0, Pg. 2, Item 1.d	Production, maintenance, materials handling, waste disposal areas, ponds
I	Floodplain	Tech 1.0, Pg. 2, Item 1.f	FEMA description, protections
J	Treatment System, Flow Schematic	Tech 1.0, Pg. 3, Item 2.b	Schematic showing units, paths
K	Impoundments	Tech. 1.0, Pg. 4, Item 3	Impoundment information
L	Outfalls/Disposal	Tech. 1.0, Pg. 6, Item 4	Outfall information
M	Stormwater	Tech 1.0, Pg. 8, Item 6	Description of stormwater in outfall
N	Sampling Data	Wksht 2.0, Pg. 19, Item 1 etc	Sampling data, various outfalls

LIST OF EXHIBITS TO SPIF

Exhibit	Title	Application Reference	Content
SPIF-A	Discharge Routes	SPIF, Pg. 2, Item 7	Discharge routes
SPIF-B	USGS Map	SPIF, Pg. 2, Item 8	Project boundaries, project area, discharge route one mile

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION CHECKLIST

Complete and submit this checklist with the industrial wastewater permit application.

APPLICANT NAME: San Miguel Electric Cooperative, Inc.

PERMIT NUMBER (If new, leave blank): WQ00 02043000

Indicate if each of the following items is included in your application.

	Y	N		Y	N
Administrative Report 1.0	☒	☐	Worksheet 8.0	☐	☒
Administrative Report 1.1	☐	☒	Worksheet 9.0	☐	☒
SPIF	☒	☐	Worksheet 10.0	☐	☒
Core Data Form	☒	☐	Worksheet 11.0	☐	☒
Public Involvement Plan Form	☒	☐	Worksheet 11.1	☐	☒
Plain Language Summary	☒	☐	Worksheet 11.2	☐	☒
Technical Report 1.0	☒	☐	Worksheet 11.3	☐	☒
Worksheet 1.0	☒	☐	Original USGS Map	☒	☐
Worksheet 2.0	☒	☐	Affected Landowners Map	☐	☒
Worksheet 3.0	☐	☒	Landowner Disk or Labels	☐	☒
Worksheet 3.1	☐	☒	Flow Diagram	☒	☐
Worksheet 3.2	☐	☒	Site Drawing	☒	☐
Worksheet 3.3	☐	☒	Original Photographs	☐	☒
Worksheet 4.0	☒	☐	Design Calculations	☐	☒
Worksheet 4.1	☐	☒	Solids Management Plan	☐	☒
Worksheet 5.0	☐	☒	Water Balance	☐	☒
Worksheet 6.0	☐	☒			
Worksheet 7.0	☒	☐			

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.0

This report is required for all applications for TPDES permits and TLAPs, except applications for oil and gas extraction operations subject to 40 CFR Part 435. Contact the Applications Review and Processing Team at 512-239-4671 with any questions about completing this report.

Applications for oil and gas extraction operations subject to 40 CFR Part 435 must use the Oil and Gas Exploration and Production Administrative Report (TCEQ Form-20893 and 20893-inst[1]).

Item 1. Application Information and Fees (Instructions, Page 26)

a. Complete each field with the requested information, if applicable.

Applicant Name: San Miguel Electric Cooperative, Inc.

Permit No.: WQ0002043000

EPA ID No.: TX0083445

Expiration Date: June 16, 2025

b. Check the box next to the appropriate authorization type.

☒ Industrial Wastewater (wastewater and stormwater)

☐ Industrial Stormwater (stormwater only)

c. Check the box next to the appropriate facility status.

☒ Active ☐ Inactive

d. Check the box next to the appropriate permit type.

☒ TPDES Permit ☐ TLAP ☐ TPDES with TLAP component

e. Check the box next to the appropriate application type.

☐ New

☐ Renewal with changes ☒ Renewal without changes

☐ Major amendment with renewal ☐ Major amendment without renewal

☐ Minor amendment without renewal

☐ Minor modification without renewal

f. If applying for an amendment or modification, describe the request: Item 13 Tech Report

For TCEQ Use Only

Segment Number _____County _____
Expiration Date _____Region _____
Permit Number _____

[1] https://www.tceq.texas.gov/publications/search_forms.html

g. Application Fee

EPA Classification	New	Major Amend. (with or without renewal)	Renewal (with or without changes)	Minor Amend. / Minor Mod. (without renewal)
Minor facility not subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $350	☐ $350	☐ $315	☐ $150
Minor facility subject to EPA categorical effluent guidelines (40 CFR Parts 400-471)	☐ $1,250	☐ $1,250	☒ $1,215	☐ $150
Major facility	N/A [2]	☐ $2,050	☐ $2,015	☐ $450

h. Payment Information

Mailed

Check or money order No.: NA

Check or money order amt.: 1215.00

Named printed on check or money order: San Miguel Electric Cooperative, Inc.

Epay

Voucher number: 769853Click to enter text.

Copy of voucher attachment: Attachment A1

Item 2. Applicant Information (Instructions, Pages 26)

a. Customer Number, if applicant is an existing customer: CN600132278

Note: Locate the customer number using the TCEQ's Central Registry Customer Search[3].

b. Legal name of the entity (applicant) applying for this permit: San Miguel Electric Cooperative, Inc.

Note: The owner of the facility must apply for the permit. The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Mr. Full Name (Last/First Name): Burris/David

Title: Fuels Manager Credential: PE

d. Will the applicant have overall financial responsibility for the facility?

☒ Yes ☐ No

[2] All facilities are designated as minors until formally classified as a major by EPA.

[3] https://www15.tceq.texas.gov/crpub/index.cfm?fuseaction=cust.CustSearch

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 3. Co-applicant Information (Instructions, Page 27)

☒ Check this box if there is no co-applicant.; otherwise, complete the below questions.

a. Legal name of the entity (co-applicant) applying for this permit: Click to enter text.

Note: The legal name must be spelled exactly as filed with the TX SOS, Texas Comptroller of Public Accounts, County, or in the legal documents forming the entity.

b. Customer Number (if applicant is an existing customer): CNClick to enter text.

Note: Locate the customer number using the TCEQ's Central Registry Customer Search.

c. Name and title of the person signing the application. (**Note:** The person must be an executive official that meets signatory requirements in 30 TAC § 305.44.)

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

Title: Click to enter text. Credential: Click to enter text.

d. Will the co-applicant have overall financial responsibility for the facility?

☐ Yes ☐ No

Note: The entity with overall financial responsibility for the facility must apply as a co-applicant, if not the facility owner.

Item 4. Core Data Form (Instructions, Pages 27)

a. Complete one Core Data Form (TCEQ Form 10400) for each customer (applicant and co-applicant(s)) and include as an attachment. If the customer type selected on the Core Data Form is Individual, complete Attachment 1 of the Administrative Report. Attachment: A

Item 5. Application Contact Information (Instructions, Page 27)

Provide names of two individuals who can be contact for additional information about this application. Indicate if the individual can be contact about administrative or technical information, or both.

a. ☒ Administrative Contact . ☒ Technical Contact

Prefix: Mr. Full Name (Last/First Name): Burris/David

Title: Fuels Manager Credential: PE

Organization Name: San Miguel Electric Cooperative, Inc.

Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026

Phone No: 830 784 3411 Email: dburris@smeci.net

b. ☐ Administrative Contact ☒ Technical Contact

Prefix: Dr. Full Name (Last/First Name): Miertschin/James

Title: Engineer Credential: PE

Organization Name: James Miertschin & Assoc, Inc.

Mailing Address: PO Box 162305 City/State/Zip: Austin/TX/78716

Phone No: 512 327 2708 Email: jm@jmaenv.com

Attachment: Click to enter text.

Item 6. Permit Contact Information (Instructions, Page 28)

Provide two names of individuals that can be contacted throughout the permit term.

a. Prefix: Mr. Full Name (Last/First Name): Burris/David
Title: Fuels Manager Credential: PE
Organization Name: San Miguel Electric Cooperative
Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026
Phone No: 830 784 3411 Email: dburris@smeci.net

b. Prefix: Ms. Full Name (Last/First Name): Frisbee/Nellie
Title: Permit Compliance Coordinator Credential: Click to enter text.
Organization Name: San Miguel Electric Cooperative, Inc.
Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026
Phone No: 830 784 3411 Email: nfrisbee@smeci.net

Attachment: Click to enter text.

Item 7. Billing Contact Information (Instructions, Page 28)

The permittee is responsible for paying the annual fee. The annual fee will be assessed for permits **in effect on September 1 of each year**. The TCEQ will send a bill to the address provided in this section. The permittee is responsible for terminating the permit when it is no longer needed (form TCEQ-20029).

Provide the complete mailing address where the annual fee invoice should be mailed and the name and phone number of the permittee's representative responsible for payment of the invoice.

Prefix: Mr.Click to enter text. Full Name (Last/First Name): Burris/David
Title: Fuels Manager Credential: PE
Organization Name: San Miguel Electric Cooperative, Inc.
Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026
Phone No: 830 784 3411 Email: dburris@smeci.net

Item 8. DMR/MER Contact Information (Instructions, Page 28)

Provide the name and mailing address of the person delegated to receive and submit DMRs or MERs. **Note:** DMR data must be submitted through the NetDMR system. An electronic reporting account can be established once the facility has obtained the permit number.

Prefix: Mr. Full Name (Last/First Name): Burris/David
Title: Fuels Manager Credential: PE
Organization Name: San Miguel Electric Cooperative, Inc.
Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026
Phone No: 830 784 3411 Email: dburris@smeci.net

Item 9. Notice Information (Instructions, Pages 28)

a. Individual Publishing the Notices

Prefix: Ms. Full Name (Last/First Name): Frisbee/Nellie

Title: Permit Compliance Coordinator Credential: Click to enter text.

Organization Name: San Miguel Electric Cooperative, Inc.

Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026

Phone No: 830 784 3411 Email: nfrisbee@smeci.net

b. Method for Receiving Notice of Receipt and Intent to Obtain a Water Quality Permit Package (only for NORI, NAPD will be sent via regular mail)

☒ E-mail: dburris@smeci.net

☐ Fax: Click to enter text.

☐ Regular Mail (USPS)

Mailing Address: Click to enter text.

City/State/Zip Code: Click to enter text.

c. Contact in the Notice

Prefix: Mr. Full Name (Last/First Name): Burris/David

Title: Fuels Manager Credential: PE

Organization Name: San Miguel Electric Cooperative

Phone No: 830 784 3411 Email: dburris@smeci.net

d. Public Viewing Location Information

Note: If the facility or outfall is located in more than one county, provide a public viewing place for each county.

Public building name: See Attach. B Location within the building: Click to enter text.

Physical Address of Building: Click to enter text.

City: Click to enter text. County: Click to enter text.

e. Bilingual Notice Requirements

This information is required for new, major amendment, minor amendment or minor modification, and renewal applications.

This section of the application is only used to determine if alternative language notices will be needed. Complete instructions on publishing the alternative language notices will be in your public notice package.

Call the bilingual/ESL coordinator at the nearest elementary and middle schools and obtain the following information to determine if an alternative language notice(s) is required.

1. Is a bilingual education program required by the Texas Education Code at the elementary or middle school nearest to the facility or proposed facility?

   ☐ Yes ☒ No

   If no, publication of an alternative language notice is not required; skip to Item 8 (Regulated Entity and Permitted Site Information.)

2. Are the students who attend either the elementary school or the middle school enrolled in a bilingual education program at that school?

   ☐ Yes ☐ No

3. Do the students at these schools attend a bilingual education program at another location?

   ☐ Yes ☐ No

4. Would the school be required to provide a bilingual education program, but the school has waived out of this requirement under 19 TAC §89.1205(g)?

   ☐ Yes ☐ No ☒ N/A

5. If the answer is yes to question 1, 2, 3, or 4, public notices in an alternative language are required. Which language is required by the bilingual program? Click to enter text.

f. Plain Language Summary Template – Complete the Plain Language Summary (TCEQ Form 20972) and include as an attachment. Attachment: C

g. Complete one Public Involvement Plan (PIP) Form (TCEQ Form 20960) for each application for a new permit or major amendment and include as an attachment. Attachment: D

Item 10. Regulated Entity and Permitted Site Information (Instructions Page 29)

a. TCEQ issued Regulated Entity Number (RN), if available: RN 1002262539

   Note: If your business site is part of a larger business site, a Regulated Entity Number (RN) may already be assigned for the larger site. Use the RN assigned for the larger site. Search the TCEQ's Central Registry to determine the RN or to see if the larger site may already be registered as a Regulated Entity. If the site is found, provide the assigned RN.

b. Name of project or site (the name known by the community where located): San Miguel Lignite Mine

c. Is the location address of the facility in the existing permit the same?

   ☒ Yes ☐ No ☐ N/A (new permit)

   Note: If the facility is located in Bexar, Comal, Hays, Kinney, Medina, Travis, Uvalde, or Williamson County, additional information concerning protection of the Edwards Aquifer may be required.

d. Owner of treatment facility:

   Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

   or Organization Name: San Miguel Electric Cooperative, Inc.

   Mailing Address: PO Box 280 City/State/Zip: Jourdanton/TX/78026

   Phone No: 830 784 4811 Email: dburris@smeci.net

e. Ownership of facility: ☐ Public ☒ Private ☐ Both ☐ Federal

f. Owner of land where treatment facility is or will be: Leased

   Prefix: Full Name (Last/First Name):

   or Organization Name: Click to enter text.

   Mailing Address: City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years (In some cases, a lease may not suffice - see instructions). Attachment: E

g. Owner of effluent TLAP disposal site (if applicable): Click to enter text.

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

h. Owner of sewage sludge disposal site (if applicable):

Prefix: Click to enter text. Full Name (Last/First Name): Click to enter text.

or Organization Name: Click to enter text.

Mailing Address: Click to enter text. City/State/Zip: Click to enter text.

Phone No: Click to enter text. Email: Click to enter text.

Note: If not the same as the facility owner, attach a long-term lease agreement in effect for at least six years. Attachment: Click to enter text.

Item 11. TDPES Discharge/TLAP Disposal Information (Instructions, Page 31)

a. Is the facility located on or does the treated effluent cross Native American Land?

☐ Yes ☒ No

b. Attach an original full size USGS Topographic Map (or an 8.5"×11" reproduced portion for renewal or amendment applications) with all required information. Check the box next to each item below to confirm it has been included on the map.

☒ One-mile radius
☒ Applicant's property boundaries
☒ Labeled point(s) of discharge
☐ Effluent disposal site boundaries
☐ Sewage sludge disposal site
☒ Three-miles downstream information
☒ Treatment facility boundaries
☒ Highlighted discharge route(s)
☒ All wastewater ponds
☐ New and future construction

Attachment: F

c. Is the location of the sewage sludge disposal site in the existing permit accurate?

☐ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: NA

d. Are the point(s) of discharge in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new application, provide an accurate location description: Click to enter text.

e. Are the discharge route(s) in the existing permit correct?

☒ Yes ☐ No or New Permit

If no, or a new permit, provide an accurate description of the discharge route: Click to enter text.

f. City nearest the outfall(s): Christine

g. County in which the outfalls(s) is/are located: Atascosa, McMullen

h. Is or will the treated wastewater discharge to a city, county, or state highway right-of-way, or a flood control district drainage ditch?

☐ Yes ☒ No

If yes, indicate by a check mark if: ☐ Authorization granted ☐ Authorization pending

For new and amendment applications, attach copies of letters that show proof of contact and provide the approval letter upon receipt. Attachment: Click to enter text.

For all applications involving an average daily discharge of 5 MGD or more, provide the names of all counties located within 100 statute miles downstream of the point(s) of discharge: Click to enter text.

i. For TLAPs, is the location of the effluent disposal site in the existing permit accurate?

☐ Yes No or New Permit ☐ Click to enter text.

If no, or a new application, provide an accurate location description: NA

j. City nearest the disposal site: NA

k. County in which the disposal site is located: NA

l. For TLAPs, describe how effluent is/will be routed from the treatment facility to the disposal site: NA

m. For TLAPs, identify the nearest watercourse to the disposal site to which rainfall runoff might flow if not contained: NA

Item 12. Miscellaneous Information (Instructions, Page 33)

a. Did any person formerly employed by the TCEQ represent your company and get paid for service regarding this application?

☐ Yes ☒ No

If yes, list each person: Click to enter text.

b. Do you owe any fees to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Account no.: Click to enter text.

Total amount due: Click to enter text.

c. Do you owe any penalties to the TCEQ?

☐ Yes ☒ No

If yes, provide the following information:

Enforcement order no.: Click to enter text.

Amount due: Click to enter text.

Item 13. Signature Page (Instructions, Page 33)

Permit No: WQ0002043

Applicant Name: San Miguel Electric Cooperative, Inc.

Certification: I, David Burris, 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 there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

I further certify that I am authorized under 30 Texas Administrative Code §305.44 to sign and submit this document and can provide documentation in proof of such authorization upon request.

Signatory name (typed or printed): David Burris

Signatory title: Fuels Manager

Signature: _____ Date: 6/6/2025
(Use blue ink)

Subscribed and Sworn to before me by the said David Burris

on this 6th day of June, 20 25.

My commission expires on the 4th day of June, 20 28.

Vanessa C. Cunningham
Notary Public

[SEAL]

VANESSA CUNNINGHAM
NOTARY PUBLIC
STATE OF TEXAS
MY COMM. EXP. 06/04/28
NOTARY ID 126404648

Atascosa
County, Texas

Note: *If co-applicants are necessary, each entity must submit an original, separate signature page.*

INDUSTRIAL WASTEWATER PERMIT APPLICATION ADMINISTRATIVE REPORT 1.1

The following information is required for new and amendment applications.

Item 1. Affected Landowner Information (Instructions, Page 35)

a. Attach a landowner map or drawing, with scale, as applicable. Check the box next to each item to confirm it has been provided.

☐ The applicant's property boundaries.

☐ The facility site boundaries within the applicant's property boundaries.

☐ The distance the buffer zone falls into adjacent properties and the property boundaries of the landowners located within the buffer zone.

☐ The property boundaries of all landowners surrounding the applicant's property. (Note: if the application is a major amendment for a lignite mine, the map must include the property boundaries of all landowners adjacent to the new facility (ponds).)

☐ The point(s) of discharge and highlighted discharge route(s) clearly shown for one mile downstream.

☐ The property boundaries of the landowners located on both sides of the discharge route for one full stream mile downstream of the point of discharge.

☐ The property boundaries of the landowners along the watercourse for a one-half mile radius from the point of discharge if the point of discharge is into a lake, bay, estuary, or affected by tides.

☐ The boundaries of the effluent disposal site (e.g., irrigation area or subsurface drainfield site) and all evaporation/holding ponds within the applicant's property.

☐ The property boundaries of all landowners surrounding the applicant's property boundaries where the effluent disposal site is located.

☐ The boundaries of the sludge land application site (for land application of sewage sludge for beneficial use) and the property boundaries of landowners within one-quarter mile of the applicant's property boundaries where the sewage sludge land application site is located.

☐ The property boundaries of landowners within one-half mile in all directions from the applicant's property boundaries where the sewage sludge disposal site (e.g., sludge surface disposal site or sludge monofil) is located.

Attachment: Click to enter text.

b. Check the box next to the format of the landowners list:

☐ Readable/Writeable CD ☐ Four sets of labels

Attachment: Click to enter text.

d. Provide the source of the landowners' names and mailing addresses: Click to enter text.

e. As required by Texas Water Code § 5.115, is any permanent school fund land affected by this application?

☐ Yes ☐ No

If yes, provide the location and foreseeable impacts and effects this application has on the land(s): Click to enter text.

Item 2. Original Photographs (Instructions, Page 37)

Provide original ground level photographs. Check the box next to each of the following items to indicate it is included.

☐ At least one original photograph of the new or expanded treatment unit location.

☐ At least two photographs of the existing/proposed point of discharge and as much area downstream (photo 1) and upstream (photo 2) as can be captured. If the discharge is to an open water body (e.g., lake, bay), the point of discharge should be in the right or left edge of each photograph showing the open water and with as much area on each respective side of the discharge as can be captured.

☐ At least one photograph of the existing/proposed effluent disposal site.

☐ A plot plan or map showing the location and direction of each photograph.

Attachment: Click to enter text.

INDUSTRIAL WASTEWATER PERMIT APPLICATION

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

This form applies to TPDES permit applications only. Complete and attach the Supplemental Permit information Form (SPIF) (TCEQ Form 20971).

Attachment: G

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

INDUSTRIAL WASTEWATER PERMIT APPLICATION TECHNICAL REPORT 1.0

The following information **is required** for all applications for a TLAP or an individual TPDES discharge permit.

For **additional information** or clarification on the requested information, please refer to the Instructions for Completing the Industrial Wastewater Permit Application[1] available on the TCEQ website. Please contact the Industrial Permits Team at 512-239-4671 with any questions about this form.

If more than one outfall is included in the application, provide applicable information for each individual outfall. **If an item does not apply to the facility, enter N/A** to indicate that the item has been considered. Include separate reports or additional sheets as **clearly cross-referenced attachments** and provide the attachment number in the space provided for the item the attachment addresses.

NOTE: This application is for an industrial wastewater permit only. Additional authorizations from the TCEQ Waste Permits Division or the TCEQ Air Permits Division may be needed.

Item 1. Facility/Site Information (Instructions, Page 39)

a. Describe the general nature of the business and type(s) of industrial and commercial activities. Include all applicable SIC codes (up to 4).

Surface lignite mining operation (SIC 1221, 1213)

b. Describe all wastewater-generating processes at the facility.

Storm water runoff, mine pit water, and mine depressurization water within the active mining area are routed to sedimentation ponds for mixing and settling of solids. Storm water from haul roads may be routed to adjacent ponds for settling of solids. Storm water from haul roads that is not routed to adjacent ponds or other sedimentation ponds is discharged through haul road drop structures and is authorized by TPDES general Industrial Activity Permit No. TXR05X702. In the post-mining phase, mine pit water and stormwater will be routed to ponds for settling and discharged via authorized outfalls. Domestic wastewater is treated in an extended aeration package plant. Treated domestic wastewater is commingled with truck wash water and storm water runoff and disposed via an on-site evaporation pond. Water from the evaporation pond and sedimentation ponds may also be used for dust suppression on haul roads.

[1] https://www.tceq.texas.gov/permitting/wastewater/industrial/TPDES_industrial_wastewater_steps.html

c. Provide a list of raw materials, major intermediates, and final products handled at the facility.

Materials List

Raw Materials	Intermediate Products	Final Products
lignite	N/A	lignite
Excavated overburden	N/A	Reclaimed

Attachment: Click to enter text.

d. Attach a facility map (drawn to scale) with the following information:

- Production areas, maintenance areas, materials-handling areas, waste-disposal areas, and water intake structures.
- The location of each unit of the WWTP including the location of wastewater collection sumps, impoundments, outfalls, and sampling points, if significantly different from outfall locations.

Attachment: H

e. Is this a new permit application for an existing facility?

☒ Yes ☐ No

If **yes**, provide background discussion: Renewal

f. Is/will the treatment facility/disposal site be located above the 100-year frequency flood level.

☐ Yes ☒ No

List source(s) used to determine 100-year frequency flood plain: FEMA mapping

If **no**, provide the elevation of the 100-year frequency flood plain and describe what protective measures are used/proposed to prevent flooding (including tail water and rainfall run-on controls) of the treatment facility and disposal area: Click to enter text.

Attachment: I

g. For **new** or **major amendment** permit applications, will any construction operations result in a discharge of fill material into a water in the state?

☐ Yes ☐ No ☒ N/A (renewal only)

h. If **yes** to Item 1.g, has the applicant applied for a USACE CWA Chapter 404 Dredge and Fill permit?

☐ Yes ☐ No

If **yes**, provide the permit number: Click to enter text.

If **no**, provide an approximate date of application submittal to the USACE: Click to enter text.

Item 2. Treatment System (Instructions, Page 40)

a. List any physical, chemical, or biological treatment process(es) used/proposed to treat wastewater at this facility. Include a description of each treatment process, starting with initial treatment and finishing with the outfall/point of disposal.

Active Mining Area: sedimentation ponds allow settling of solids from mine pit water, depressurization and other groundwater, and storm water. The sedimentation ponds are constructed as per requirements of Railroad Commission of Texas. Water from the sedimentation ponds is discharged via designated outfalls or used for dust suppression on haul roads.
Post-Mining Area: sedimentation ponds allow settling of solids from mine pit water and stormwater. Domestic Wastewater: domestic wastewater is treated in an activated sludge treatment plant that includes aeration, clarification, and chlorination. Effluent is routed to the Evaporation Pond for disposal. Evaporation Pond water may also be used for dust suppression. Truck Wash: wash water is routed to the Evaporation Pond where it is disposed of by evaporation or dust suppression. Storm Water: storm water from storm water-only outfalls is authorized under the Multi-sector General Permit for industrial activity.

b. Attach a flow schematic **with a water balance** showing all sources of water and wastewater flow into the facility, wastewater flow into and from each treatment unit, and wastewater flow to each outfall/point of disposal.

Attachment: J

Item 3. Impoundments (Instructions, Page 40)

Does the facility use or plan to use any wastewater impoundments (e.g., lagoons or ponds?)

☒ Yes ☐ No

If **no**, proceed to Item 4. If **yes**, complete **Item 3.a** for **existing** impoundments and **Items 3.a - 3.e** for **new or proposed** impoundments. **NOTE:** See instructions, Pages 40-42, for additional information on the attachments required by Items 3.a – 3.e.

a. Complete the table with the following information for each existing, new, or proposed impoundment. Attach additional copies of the Impoundment Information table, if needed.

Use Designation: Indicate the use designation for each impoundment as Treatment (**T**), Disposal (**D**), Containment (**C**), or Evaporation (**E**).

Associated Outfall Number: Provide an outfall number if a discharge occurs or will occur.

Liner Type: Indicate the liner type as Compacted clay liner (**C**), In-situ clay liner (**I**), Synthetic/plastic/rubber liner (**S**), or Alternate liner (**A**). **NOTE:** See instructions for further detail on liner specifications. If an alternate liner (A) is selected, include an attachment that provides a description of the alternate liner and any additional technical information necessary for an evaluation.

Leak Detection System: If any leak detection systems are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no.

Groundwater Monitoring Wells and Data: If groundwater monitoring wells are in place/planned, enter **Y** for yes. Otherwise, enter **N** for no. Attach any existing groundwater monitoring data.

Dimensions: Provide the dimensions, freeboard, surface area, storage capacity of the impoundments, and the maximum depth (not including freeboard). For impoundments with irregular shapes, submit surface area instead of length and width.

Compliance with 40 CFR Part 257, Subpart D: If the impoundment is required to be in compliance with 40 CFR Part 257, Subpart D, enter **Y** for yes. Otherwise, enter **N** for no.

Date of Construction: Enter the date construction of the impoundment commenced (mm/dd/yy).

Impoundment Information see Attachment K

Parameter	**Pond #**	**Pond #**	**Pond #**	**Pond #**
Use Designation: (T) (D) (C) or (E)				
Associated Outfall Number				
Liner Type (C) (I) (S) or (A)				
Alt. Liner Attachment Reference				
Leak Detection System, Y/N				
Groundwater Monitoring Wells, Y/N				
Groundwater Monitoring Data Attachment				
Pond Bottom Located Above The Seasonal High-Water Table, Y/N				
Length (ft)				
Width (ft)				
Max Depth From Water Surface (ft), Not Including Freeboard				
Freeboard (ft)				
Surface Area (acres)				
Storage Capacity (gallons)				
40 CFR Part 257, Subpart D, Y/N				
Date of Construction				

Attachment: K

The following information (**Items 3.b – 3.e**) is required only for **new or proposed** impoundments.

b. For new or proposed impoundments, attach any available information on the following items. If attached, check **yes** in the appropriate box. Otherwise, check **no** or **not yet designed**.

1. Liner data

☐ Yes ☐ No ☐ Not yet designed

2. Leak detection system or groundwater monitoring data

☐ Yes ☐ No ☐ Not yet designed

3. Groundwater impacts

☐ Yes ☐ No ☐ Not yet designed

NOTE: Item b.3 is required if the bottom of the pond is not above the seasonal high-water table in the shallowest water-bearing zone.

Attachment: N/A

For TLAP applications: Items 3.c – 3.e are **not required**, continue to Item 4.

c. Attach a USGS map or a color copy of original quality and scale which accurately locates and identifies all known water supply wells and monitor wells within ½-mile of the impoundments.

Attachment: Click to enter text.

d. Attach copies of State Water Well Reports (e.g., driller's logs, completion data, etc.), and data on depths to groundwater for all known water supply wells including a description of how the depths to groundwater were obtained.

Attachment: Click to enter text.

e. Attach information pertaining to the groundwater, soils, geology, pond liner, etc. used to assess the potential for migration of wastes from the impoundments or the potential for contamination of groundwater or surface water.

Attachment: Click to enter text.

Item 4. Outfall/Disposal Method Information (Instructions, Page 42)

Complete the following tables to describe the location and wastewater discharge or disposal operations for each outfall for discharge, and for each point of disposal for TLAP operations.

If there are more outfalls/points of disposal at the facility than the spaces provided, copies of pages 6 and/0r numbered accordingly (i.e., page 6a, 6b, etc.) may be used to provide information on the additional outfalls.

For TLAP applications: Indicate the disposal method and each individual irrigation area **I**, evaporation pond **E**, or subsurface drainage system **S** by providing the appropriate letter designation for the disposal method followed by a numerical designation for each disposal area in the space provided for **Outfall** number (e.g. **E1** for evaporation pond 1, **I2** for irrigation area No. 2, etc.).

Outfall Longitude and Latitude

Outfall No.	Latitude (Decimal Degrees)	Longitude (Decimal Degrees)

Outfall Location Description

Outfall No.	Location Description

Description of Sampling Point(s) (if different from Outfall location)

Outfall No.	Description of sampling point

Outfall Flow Information – Permitted and Proposed

Outfall No.	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Proposed Daily Avg Flow (MGD)	Proposed Daily Max Flow (MGD)	Anticipated Discharge Date (mm/dd/yy)

Outfall Discharge – Method and Measurement

Outfall No.	Pumped Discharge? Y/N	Gravity Discharge? Y/N	Type of Flow Measurement Device Used

Outfall Discharge – Flow Characteristics

Outfall No.	Intermittent Discharge? Y/N	Continuous Discharge? Y/N	Seasonal Discharge? Y/N	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)

Outfall Wastestream Contributions

Outfall No. All

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow
Mine pit water	Variable	Variable
Stormwater runoff	Variable	Variable
Mine depressurization water/groundwater	variable	Variable

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Outfall No. Click to enter text.

Contributing Wastestream	Volume (MGD)	Percent (%) of Total Flow

Attachment: L

Item 5. Blowdown and Once-Through Cooling Water Discharges (Instructions, Page 43)

a. Indicate if the facility currently or proposes to:

☐ Yes ☒ No Use cooling towers that discharge blowdown or other wastestreams

☐ Yes ☒ No Use boilers that discharge blowdown or other wastestreams

☐ Yes ☒ No Discharge once-through cooling water

NOTE: If the facility uses or plans to use cooling towers or once-through cooling water, Item 12 **is required**.

b. If **yes** to any of the above, attach an SDS with the following information for each chemical additive.

- Manufacturers Product Identification Number
- Product use (e.g., biocide, fungicide, corrosion inhibitor, etc.)
- Chemical composition including CASRN for each ingredient
- Classify product as non-persistent, persistent, or bioaccumulative
- Product or active ingredient half-life
- Frequency of product use (e.g., 2 hours/day once every two weeks)
- Product toxicity data specific to fish and aquatic invertebrate organisms
- Concentration of whole product or active ingredient, as appropriate, in wastestream.

In addition to each SDS, attach a summary of the above information for each specific wastestream and the associated chemical additives. Specify which outfalls are affected.

Attachment: N/A

c. Cooling Towers and Boilers

If the facility currently or proposes to use cooling towers or boilers that discharge blowdown or other wastestreams to the outfall(s), complete the following table.

Cooling Towers and Boilers

Type of Unit	Number of Units	Daily Avg Blowdown (gallons/day)	Daily Max Blowdown (gallons/day)
Cooling Towers			
Boilers			

Item 6. Stormwater Management (Instructions, Page 44)

Will any existing/proposed outfalls discharge stormwater associated with industrial activities, as defined at *40 CFR § 122.26(b)(14)*, commingled with any other wastestream?

☒ Yes ☐ No

If **yes**, briefly describe the industrial processes and activities that occur outdoors or in a manner which may result in exposure of the activities or materials to stormwater: M

Item 7. Domestic Sewage, Sewage Sludge, and Septage Management and Disposal (Instructions, Page 44)

Domestic Sewage - Waste and wastewater from humans or household operations that is discharged to a wastewater collection system or otherwise enters a treatment works.

a. Check the box next to the appropriate method of domestic sewage and domestic sewage sludge treatment or disposal. Complete Worksheet 5.0 or Item 7.b if directed to do so.

☐ Domestic sewage is routed (i.e., connected to or transported to) to a WWTP permitted to receive domestic sewage for treatment, disposal, or both. Complete Item 7.b.

☐ Domestic sewage disposed of by an on-site septic tank and drainfield system. Complete Item 7.b.

☐ Domestic and industrial treatment sludge ARE commingled prior to use or disposal.

☒ Industrial wastewater and domestic sewage are treated separately, and the respective sludge IS NOT commingled prior to sludge use or disposal. Complete Worksheet 5.0.

☐ Facility is a POTW. Complete Worksheet 5.0.

☐ Domestic sewage is not generated on-site.

☐ Other (e.g., portable toilets), specify and Complete Item 7.b: Click to enter text.

b. Provide the name and TCEQ, NPDES, or TPDES Permit No. of the waste-disposal facility which receives the domestic sewage/septage. If hauled by motorized vehicle, provide the name and TCEQ Registration No. of the hauler.

Domestic Sewage Plant/Hauler Name

Plant/Hauler Name	Permit/Registration No.

Item 8. Improvements or Compliance/Enforcement Requirements (Instructions, Page 45)

a. Is the permittee currently required to meet any implementation schedule for compliance or enforcement?

☐ Yes ☒ No

b. Has the permittee completed or planned for any improvements or construction projects?

☐ Yes ☒ No

c. If **yes** to either 8.a **or** 8.b, provide a brief summary of the requirements and a status update: Click to enter text.

Item 9. Toxicity Testing (Instructions, Page 45)

Have any biological tests for acute or chronic toxicity been made on any of the discharges or on a receiving water in relation to the discharge within the last three years?

☐ Yes ☒ No

If **yes**, identify the tests and describe their purposes: Click to enter text.

Additionally, attach a copy of all tests performed which **have not** been submitted to the TCEQ or EPA. **Attachment:** N/A

Item 10. Off-Site/Third Party Wastes (Instructions, Page 45)

a. Does or will the facility receive wastes from off-site sources for treatment at the facility, disposal on-site via land application, or discharge via a permitted outfall?

☐ Yes ☒ No

If **yes**, provide responses to Items 10.b through 10.d below.

If **no**, proceed to Item 11.

b. Attach the following information to the application:

- List of wastes received (including volumes, characterization, and capability with on-site wastes).
- Identify the sources of wastes received (including the legal name and addresses of the generators).
- Description of the relationship of waste source(s) with the facility's activities.

Attachment: Click to enter text.

c. Is or will wastewater from another TCEQ, NPDES, or TPDES permitted facility commingled with this facility's wastewater after final treatment and prior to discharge via the final outfall/point of disposal?

☐ Yes ☐ No

If **yes**, provide the name, address, and TCEQ, NPDES, or TPDES permit number of the contributing facility and a copy of any agreements or contracts relating to this activity.

Attachment: Click to enter text.

d. Is this facility a POTW that accepts/will accept process wastewater from any SIU and has/is required to have an approved pretreatment program under the NPDES/TPDES program?

☐ Yes ☐ No

If **yes**, **Worksheet 6.0** of this application **is required**.

Item 11. Radioactive Materials (Instructions, Page 46)

a. Are/will radioactive materials be mined, used, stored, or processed at this facility?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L.

Radioactive Materials Mined, Used, Stored, or Processed

Radioactive Material Name	Concentration (pCi/L)

Radioactive Material Name	Concentration (pCi/L)

b. Does the applicant or anyone at the facility have any knowledge or reason to believe that radioactive materials may be present in the discharge, including naturally occurring radioactive materials in the source waters or on the facility property?

☐ Yes ☒ No

If **yes**, use the following table to provide the results of one analysis of the effluent for all radioactive materials that may be present. Provide results in pCi/L. Do not include information provided in response to Item 11.a.

Radioactive Materials Present in the Discharge

Radioactive Material Name	Concentration (pCi/L)

Item 12. Cooling Water (Instructions, Page 46)

a. Does the facility use or propose to use water for cooling purposes?

☐ Yes ☒ No

If **no**, stop here. If **yes**, complete Items 12.b thru 12.f.

b. Cooling water is/will be obtained from a groundwater source (e.g., on-site well).

☐ Yes ☐ No

If **yes**, stop here. If **no**, continue.

c. Cooling Water Supplier

1. Provide the name of the owner(s) and operator(s) for the CWIS that supplies or will supply water for cooling purposes to the facility.

Cooling Water Intake Structure(s) Owner(s) and Operator(s)

CWIS ID				
Owner				
Operator				

2. Cooling water is/will be obtained from a Public Water Supplier (PWS)

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the PWS Registration No. and stop here: PWS No. Click to enter text.

3. Cooling water is/will be obtained from a reclaimed water source?

☐ Yes ☐ No

If **no**, continue. If **yes**, provide the Reuse Authorization No. and stop here: Click to enter text.

4. Cooling water is/will be obtained from an Independent Supplier

☐ Yes ☐ No

If **no**, proceed to Item 12.d. If **yes**, provide the actual intake flow of the Independent Supplier's CWIS that is/will be used to provide water for cooling purposes and proceed: Click to enter text.

d. 316(b) General Criteria

1. The CWIS(s) used to provide water for cooling purposes to the facility has or will have a cumulative design intake flow of 2 MGD or greater.

☐ Yes ☐ No

2. At least 25% of the total water withdrawn by the CWIS is/will be used at the facility exclusively for cooling purposes on an annual average basis.

☐ Yes ☐ No

3. The CWIS(s) withdraw(s)/propose(s) to withdraw water for cooling purposes from surface waters that meet the definition of Waters of the United States in *40 CFR § 122.2*.

☐ Yes ☐ No

If **no**, provide an explanation of how the waterbody does not meet the definition of Waters of the United States in *40 CFR § 122.2*: Click to enter text.

If **yes** to all three questions in Item 12.d, the facility **meets** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA. Proceed to **Item 12.f**.

If **no** to any of the questions in Item 12.d, the facility **does not meet** the minimum criteria to be subject to the full requirements of Section 316(b) of the CWA; however, a determination is required based upon BPJ. Proceed to **Item 12.e**.

e. The facility does not meet the minimum requirements to be subject to the fill requirements of Section 316(b) **and uses**/proposes **to use cooling towers**.

☐ Yes ☐ No

If **yes**, stop here. If **no**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ.

f. Oil and Gas Exploration and Production

1. The facility is subject to requirements at 40 CFR Part 435, Subparts A or D.

☐ Yes ☐ No

If **yes**, continue. If **no**, skip to Item 12.g.

2. The facility is an existing facility as defined at 40 CFR § 125.92(k) or a new unit at an existing facility as defined at 40 CFR § 125.92(u).

☐ Yes ☐ No

If **yes**, complete Worksheet 11.0, Items 1.a, 1.b.1-3 and 6, 2.b.1, and 3.a to allow for a determination based upon BPJ. If **no**, skip to Item 12.g.3.

g. Compliance Phase and Track Selection

1. Phase I – New facility subject to 40 CFR Part 125, Subpart I

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection, attach the requested information, and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – AIF greater than 2 MGD, but less than 10 MGD

- Attach information required by *40 CFR §§ 125.86(b)(2)-(4)*.

☐ Track I – AIF greater than 10 MGD

- Attach information required by *40 CFR § 125.86(b)*.

☐ Track II

- Attach information required by *40 CFR § 125.86(c)*.

Attachment: Click to enter text.

2. Phase II – Existing facility subject to 40 CFR Part 125, Subpart J

☐ Yes ☐ No

If **yes**, complete Worksheets 11.0 through 11.3, as applicable.

3. Phase III – New facility subject to 40 CFR Part 125, Subpart N

☐ Yes ☐ No

If **yes**, check the box next to the compliance track selection and provide the requested information.

☐ Track I – Fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Items 2 and 3, and Worksheet 11.2.

☐ Track I – Not a fixed facility

- Attach information required by 40 CFR § 125.136(b) and complete Worksheet 11.0, Item 2 (except CWIS latitude/longitude under Item 2.a).

☐ Track II – Fixed facility

- Attach information required by 40 CFR § 125.136(c) and complete Worksheet 11.0, Items 2 and 3.

Attachment: Click to enter text.

Item 13. Permit Change Requests (Instructions, Page 48)

This item is only applicable to existing permitted facilities.

a. Is the facility requesting a **major amendment** of an existing permit?

☐ Yes ☒ No

If **yes**, list each request individually and provide the following information: 1) detailed information regarding the scope of each request and 2) a justification for each request. Attach any supplemental information or additional data to support each request.

Click to enter text.

b. Is the facility requesting any **minor amendments** to the permit?

☐ Yes ☒ No

If **yes**, list and describe each change individually.

Click to enter text.

c. Is the facility requesting any **minor modifications** to the permit?

☒ Yes ☐ No

If **yes**, list and describe each change individually.

Some active mining outfalls have transitioned to post-mining outfalls:

Item 14. Laboratory Accreditation (Instructions, Page 49)

All laboratory tests performed must meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification*, which includes the following general exemptions from National Environmental Laboratory Accreditation Program (NELAP) certification requirements:

- The laboratory is an in-house laboratory and is:

- periodically inspected by the TCEQ; or
- located in another state and is accredited or inspected by that state; or
- performing work for another company with a unit located in the same site; or
- performing pro bono work for a governmental agency or charitable organization.

- The laboratory is accredited under federal law.
- The data are needed for emergency-response activities, and a laboratory accredited under the Texas Laboratory Accreditation Program is not available.
- The laboratory supplies data for which the TCEQ does not offer accreditation.

The applicant should review *30 TAC Chapter 25* for specific requirements.

The following certification statement shall be signed and submitted with every application. See the *Signature Page* section in the Instructions, for a list of designated representatives who may sign the certification.

CERTIFICATION:

I certify that all laboratory tests submitted with this application meet the requirements of *30 TAC Chapter 25, Environmental Testing Laboratory Accreditation and Certification.*

Printed Name: Dave Burris

Title: Fuels Manager

Signature: _____

Date: 6/6/2025

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 1.0: EPA CATEGORICAL EFFLUENT GUIDELINES

This worksheet **is required** for all applications for TPDES permits for discharges of wastewaters subject to EPA categorical effluent limitation guidelines (ELGs).

Item 1. Categorical Industries (Instructions, Page 53)

Is this facility subject to any 40 CFR categorical ELGs outlined on page 53 of the instructions?

☒ Yes ☐ No

If **no**, this worksheet is not required. If **yes**, provide the appropriate information below.

40 CFR Effluent Guideline

Industry	40 CFR Part
Coal mining	434

Item 2. Production/Process Data (Instructions, Page 54)

NOTE: For all TPDES permit applications requesting individual permit coverage for discharges of oil and gas exploration and production wastewater (discharges into or adjacent to water in the state, falling under the Oil and Gas Extraction Effluent Guidelines – 40 CFR Part 435), see Worksheet 12.0, Item 2 instead.

a. Production Data

Provide appropriate data for effluent guidelines with production-based effluent limitations.

Production Data

Subcategory	Actual Quantity/Day	Design Quantity/Day	Units
N/A			

b. Organic Chemicals, Plastics, and Synthetic Fibers Manufacturing Data (40 CFR Part 414)

Provide each applicable subpart and the percent of total production. Provide data for metal-bearing and cyanide-bearing wastestreams, as required by *40 CFR Part 414, Appendices A and B*.

Percentage of Total Production

Subcategory	Percent of Total Production	Appendix A and B - Metals	Appendix A - Cyanide
N/A			

c. Refineries (40 CFR Part 419)

Provide the applicable subcategory and a brief justification.

N/A

Item 3. Process/Non-Process Wastewater Flows (Instructions, Page 54)

Provide a breakdown of wastewater flow(s) generated by the facility, including both process and non-process wastewater flow(s). Specify which wastewater flows are to be authorized for discharge under this permit and the disposal practices for wastewater flows, excluding domestic, which are not to be authorized for discharge under this permit.

To be authorized for discharge (all variable flows):

Mine pit water from active mining area and post-mining area

Mine depressurization water

Stormwater from active mining area and post-mining area

Stormwater from haul roads

Not authorized for discharge: truck wash water, domestic wastewater

Item 4. New Source Determination (Instructions, Page 54)

Provide a list of all wastewater-generating processes subject to EPA categorical ELGs, identify the appropriate guideline Part and Subpart, and provide the date the process/construction commenced.

Wastewater Generating Processes Subject to Effluent Guidelines

Process	EPA Guideline Part	EPA Guideline Subpart	Date Process/ Construction Commenced
Active mining	434	C	1979
Post-mining	434	E	1979
miscellaneous	434	F	1979

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 2.0: POLLUTANT ANALYSIS

Worksheet 2.0 **is required** for all applications submitted for a TPDES permit. Worksheet 2.0 is not required for applications for a permit to dispose of all wastewater by land disposal or for discharges solely of stormwater associated with industrial activities.

Item 1. General Testing Requirements (Instructions, Page 55)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): see Attachment N

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Read the general testing requirements in the instructions for important information about sampling, test methods, and MALs. If a contact laboratory was used, attach a list which includes the name, contact information, and pollutants analyzed for each laboratory/firm. **Attachment:** N

Item 2. Specific Testing Requirements (Instructions, Page 56)

Attach correspondence from TCEQ approving submittal of less than the required number of samples, if applicable. **Attachment:** N for sampling data

TABLE 1 and TABLE 2 (Instructions, Page 58)

Completion of Tables 1 and 2 is required for all external outfalls for all TPDES permit applications.

Table 1 for Outfall No.: Attach N **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (mg/L)**	**Sample 2 (mg/L)**	**Sample 3 (mg/L)**	**Sample 4 (mg/L)**
BOD (5-day)				
CBOD (5-day)				
Chemical oxygen demand				
Total organic carbon				
Dissolved oxygen				
Ammonia nitrogen				
Total suspended solids				
Nitrate nitrogen				
Total organic nitrogen				
Total phosphorus				
Oil and grease				
Total residual chlorine				
Total dissolved solids				

Pollutant	Sample 1 (mg/L)	Sample 2 (mg/L)	Sample 3 (mg/L)	Sample 4 (mg/L)
Sulfate				
Chloride				
Fluoride				
Total alkalinity (mg/L as CaCO3)				
Temperature (°F)				
pH (standard units)				

Table 2 for Outfall No.: Attachment N **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	MAL (µg/L)
Aluminum, total					2.5
Antimony, total					5
Arsenic, total					0.5
Barium, total					3
Beryllium, total					0.5
Cadmium, total					1
Chromium, total					3
Chromium, hexavalent					3
Chromium, trivalent					N/A
Copper, total					2
Cyanide, available					2/10
Lead, total					0.5
Mercury, total					0.005/0.0005
Nickel, total					2
Selenium, total					5
Silver, total					0.5
Thallium, total					0.5
Zinc, total					5.0

TABLE 3 (Instructions, Page 58)

Completion of Table 3 **is required** for all **external outfalls** which discharge process wastewater.

Partial completion of Table 3 **is required** for all **external outfalls** which discharge non-process wastewater and stormwater associated with industrial activities commingled with other wastestreams (see instructions for additional guidance).

Table 3 for Outfall No.: Attachment N **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)***
Acrylonitrile					50
Anthracene					10
Benzene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
Bis(2-chloroethyl)ether					10
Bis(2-ethylhexyl)phthalate					10
Bromodichloromethane [Dichlorobromomethane]					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane [Dibromochloromethane]					10
Chloroform					10
Chrysene					5
m-Cresol [3-Methylphenol]					10
o-Cresol [2-Methylphenol]					10
p-Cresol [4-Methylphenol]					10
1,2-Dibromoethane					10
m-Dichlorobenzene [1,3-Dichlorobenzene]					10
o-Dichlorobenzene [1,2-Dichlorobenzene]					10
p-Dichlorobenzene [1,4-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
1,2-Dichloroethane					10
1,1-Dichloroethene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
[1,1-Dichloroethylene]					
Dichloromethane [Methylene chloride]					20
1,2-Dichloropropane					10
1,3-Dichloropropene [1,3-Dichloropropylene]					10
2,4-Dimethylphenol					10
Di-n-Butyl phthalate					10
Ethylbenzene					10
Fluoride					500
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Methyl ethyl ketone					50
Nitrobenzene					10
N-Nitrosodiethylamine					20
N-Nitroso-di-n-butylamine					20
Nonylphenol					333
Pentachlorobenzene					20
Pentachlorophenol					5
Phenanthrene					10
Polychlorinated biphenyls (PCBs) (**)					0.2
Pyridine					20
1,2,4,5-Tetrachlorobenzene					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethene [Tetrachloroethylene]					10
Toluene					10
1,1,1-Trichloroethane					10
1,1,2-Trichloroethane					10
Trichloroethene [Trichloroethylene]					10
2,4,5-Trichlorophenol					50
TTHM (Total trihalomethanes)					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Vinyl chloride					10

(*) Indicate units if different from µg/L.

(**) Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, and PCB-1016. If all non-detects, enter the highest non-detect preceded by a "<".

TABLE 4 (Instructions, Pages 58-59)

Partial completion of Table 4 **is required** for each **external outfall** based on the conditions below.

a. **Tributyltin**

Is this facility an industrial/commercial facility which currently or proposes to directly dispose of wastewater from the types of operations listed below or a domestic facility which currently or proposes to receive wastewater from the types of industrial/commercial operations listed below?

☐ Yes ☒ No

If **yes**, check the box next to each of the following criteria which apply and provide the appropriate testing results in Table 4 below (check all that apply).

☐ Manufacturers and formulators of tributyltin or related compounds.

☐ Painting of ships, boats and marine structures.

☐ Ship and boat building and repairing.

☐ Ship and boat cleaning, salvage, wrecking and scaling.

☐ Operation and maintenance of marine cargo handling facilities and marinas.

☐ Facilities engaged in wood preserving.

☐ Any other industrial/commercial facility for which tributyltin is known to be present, or for which there is any reason to believe that tributyltin may be present in the effluent.

b. **Enterococci (discharge to saltwater)**

This facility discharges/proposes to discharge directly into saltwater receiving waters **and** Enterococci bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

c. E. coli (discharge to freshwater)

This facility discharges/proposes to discharge directly into freshwater receiving waters **and** *E. coli* bacteria are expected to be present in the discharge based on facility processes.

☐ Yes ☒ No

Domestic wastewater is/will be discharged.

☐ Yes ☒ No

If **yes to either** question, provide the appropriate testing results in Table 4 below.

Table 4 for Outfall No.: Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1**	**Sample 2**	**Sample 3**	**Sample 4**	**MAL**
Tributyltin (µg/L)					0.010
Enterococci (cfu or MPN/100 mL)					N/A
E. coli (cfu or MPN/100 mL)					N/A

TABLE 5 (Instructions, Page 59)

Completion of Table 5 **is required** for all **external outfalls** which discharge process wastewater from a facility which manufactures or formulates pesticides or herbicides or other wastewaters which may contain pesticides or herbicides.

If this facility does not/will not manufacture or formulate pesticides or herbicides and does not/will not discharge other wastewaters that may contain pesticides or herbicides, check N/A.

☒ N/A

Table 5 for Outfall No.: Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)***
Aldrin					0.01
Carbaryl					5
Chlordane					0.2
Chlorpyrifos					0.05
4,4'-DDD					0.1
4,4'-DDE					0.1
4,4'-DDT					0.02
2,4-D					0.7
Danitol [Fenpropathrin]					—
Demeton					0.20
Diazinon					0.5/0.1
Dicofol [Kelthane]					1
Dieldrin					0.02
Diuron					0.090
Endosulfan I (*alpha*)					0.01
Endosulfan II (*beta*)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Guthion [Azinphos methyl]					0.1

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)*
Heptachlor					0.01
Heptachlor epoxide					0.01
Hexachlorocyclohexane (*alpha*)					0.05
Hexachlorocyclohexane (*beta*)					0.05
Hexachlorocyclohexane (*gamma*) [Lindane]					0.05
Hexachlorophene					10
Malathion					0.1
Methoxychlor					2.0
Mirex					0.02
Parathion (ethyl)					0.1
Toxaphene					0.3
2,4,5-TP [Silvex]					0.3

* Indicate units if different from µg/L.

TABLE 6 (Instructions, Page 59)

Completion of Table 6 **is required** for all **external outfalls**.

Table 6 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutants	**Believed Present**	**Believed Absent**	**Sample 1 (mg/L)**	**Sample 2 (mg/L)**	**Sample 3 (mg/L)**	**Sample 4 (mg/L)**	**MAL (µg/L)***
Bromide	☐	☐					400
Color (PCU)	☐	☐					—
Nitrate-Nitrite (as N)	☐	☐					—
Sulfide (as S)	☐	☐					—
Sulfite (as SO3)	☐	☐					—
Surfactants	☐	☐					—
Boron, total	☐	☐					20
Cobalt, total	☐	☐					0.3
Iron, total	☐	☐					7
Magnesium, total	☐	☐					20
Manganese, total	☐	☐					0.5
Molybdenum, total	☐	☐					1
Tin, total	☐	☐					5
Titanium, total	☐	☐					30

TABLE 7 (Instructions, Page 60)

Check the box next to any of the industrial categories applicable to this facility. If no categories are applicable, check N/A. If GC/MS testing is required, check the box provided to confirm the testing results for the appropriate parameters are provided with the application.

☐ N/A

Table 7 for Applicable Industrial Categories

Industrial Category	40 CFR Part	Volatiles Table 8	Acids Table 9	Bases/ Neutrals Table 10	Pesticides Table 11
☐ Adhesives and Sealants		☐ Yes	☐ Yes	☐ Yes	No
☐ Aluminum Forming	467	☐ Yes	☐ Yes	☐ Yes	No
☐ Auto and Other Laundries		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Battery Manufacturing	461	☐ Yes	No	☐ Yes	No
☒ Coal Mining	434	No	No	No	No
☐ Coil Coating	465	☐ Yes	☐ Yes	☐ Yes	No
☐ Copper Forming	468	☐ Yes	☐ Yes	☐ Yes	No
☐ Electric and Electronic Components	469	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Electroplating	413	☐ Yes	☐ Yes	☐ Yes	No
☐ Explosives Manufacturing	457	No	☐ Yes	☐ Yes	No
☐ Foundries		☐ Yes	☐ Yes	☐ Yes	No
☐ Gum and Wood Chemicals - Subparts A,B,C,E	454	☐ Yes	☐ Yes	No	No
☐ Gum and Wood Chemicals - Subparts D,F	454	☐ Yes	☐ Yes	☐ Yes	No
☐ Inorganic Chemicals Manufacturing	415	☐ Yes	☐ Yes	☐ Yes	No
☐ Iron and Steel Manufacturing	420	☐ Yes	☐ Yes	☐ Yes	No
☐ Leather Tanning and Finishing	425	☐ Yes	☐ Yes	☐ Yes	No
☐ Mechanical Products Manufacturing		☐ Yes	☐ Yes	☐ Yes	No
☐ Nonferrous Metals Manufacturing	421,471	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Oil and Gas Extraction - Subparts A, D, E, F, G, H	435	☐ Yes	☐ Yes	☐ Yes	No
☐ Ore Mining - Subpart B	440	No	☐ Yes	No	No
☐ Organic Chemicals Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Paint and Ink Formulation	446,447	☐ Yes	☐ Yes	☐ Yes	No
☐ Pesticides	455	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Petroleum Refining	419	☐ Yes	No	No	No
☐ Pharmaceutical Preparations	439	☐ Yes	☐ Yes	☐ Yes	No
☐ Photographic Equipment and Supplies	459	☐ Yes	☐ Yes	☐ Yes	No
☐ Plastic and Synthetic Materials Manufacturing	414	☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Plastic Processing	463	☐ Yes	No	No	No
☐ Porcelain Enameling	466	No	No	No	No
☐ Printing and Publishing		☐ Yes	☐ Yes	☐ Yes	☐ Yes
☐ Pulp and Paperboard Mills - Subpart C	430	☐ *	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subparts F, K	430	☐ *	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts A, B, D, G, H	430	☐ Yes	☐ Yes	☐ *	☐ *
☐ Pulp and Paperboard Mills - Subparts I, J, L	430	☐ Yes	☐ Yes	☐ *	☐ Yes
☐ Pulp and Paperboard Mills - Subpart E	430	☐ Yes	☐ Yes	☐ Yes	☐ *
☐ Rubber Processing	428	☐ Yes	☐ Yes	☐ Yes	No
☐ Soap and Detergent Manufacturing	417	☐ Yes	☐ Yes	☐ Yes	No
☐ Steam Electric Power Plants	423	☐ Yes	☐ Yes	No	No
☐ Textile Mills (Not Subpart C)	410	☐ Yes	☐ Yes	☐ Yes	No
☐ Timber Products Processing	429	☐ Yes	☐ Yes	☐ Yes	☐ Yes

* Test if believed present.

TABLES 8, 9, 10, and 11 (Instructions, Page 60)

Completion of Tables 8, 9, 10, and 11 **is required** as specified in Table 7 for all **external outfalls** that contain process wastewater.

Completion of Tables 8, 9, 10, and 11 **may be required** for types of industry not specified in Table 7 for specific parameters that are believed to be present in the wastewater.

Table 8 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	**Sample 1 (µg/L)***	**Sample 2 (µg/L)***	**Sample 3 (µg/L)***	**Sample 4 (µg/L)***	**MAL (µg/L)**
Acrolein					50
Acrylonitrile					50
Benzene					10
Bromoform					10
Carbon tetrachloride					2
Chlorobenzene					10
Chlorodibromomethane					10
Chloroethane					50
2-Chloroethylvinyl ether					10
Chloroform					10
Dichlorobromomethane [Bromodichloromethane]					10
1,1-Dichloroethane					10
1,2-Dichloroethane					10
1,1-Dichloroethylene [1,1-Dichloroethene]					10
1,2-Dichloropropane					10
1,3-Dichloropropylene [1,3-Dichloropropene]					10
Ethylbenzene					10
Methyl bromide [Bromomethane]					50
Methyl chloride [Chloromethane]					50
Methylene chloride [Dichloromethane]					20
1,1,2,2-Tetrachloroethane					10
Tetrachloroethylene [Tetrachloroethene]					10
Toluene					10
1,2-Trans-dichloroethylene [1,2-Trans-dichloroethene]					10
1,1,1-Trichloroethane					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
1,1,2-Trichloroethane					10
Trichloroethylene [Trichloroethene]					10
Vinyl chloride					10

* Indicate units if different from µg/L.

Table 9 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
2-Chlorophenol					10
2,4-Dichlorophenol					10
2,4-Dimethylphenol					10
4,6-Dinitro-o-cresol					50
2,4-Dinitrophenol					50
2-Nitrophenol					20
4-Nitrophenol					50
p-Chloro-m-cresol					10
Pentachlorophenol					5
Phenol					10
2,4,6-Trichlorophenol					10

* Indicate units if different from µg/L.

Table 10 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Acenaphthene					10
Acenaphthylene					10
Anthracene					10
Benzidine					50
Benzo(a)anthracene					5
Benzo(a)pyrene					5
3,4-Benzofluoranthene [Benzo(b)fluoranthene]					10
Benzo(ghi)perylene					20
Benzo(k)fluoranthene					5
Bis(2-chloroethoxy)methane					10
Bis(2-chloroethyl)ether					10
Bis(2-chloroisopropyl)ether					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Bis(2-ethylhexyl)phthalate					10
4-Bromophenyl phenyl ether					10
Butylbenzyl phthalate					10
2-Chloronaphthalene					10
4-Chlorophenyl phenyl ether					10
Chrysene					5
Dibenzo(a,h)anthracene					5
1,2-Dichlorobenzene [o-Dichlorobenzene]					10
1,3-Dichlorobenzene [m-Dichlorobenzene]					10
1,4-Dichlorobenzene [p-Dichlorobenzene]					10
3,3'-Dichlorobenzidine					5
Diethyl phthalate					10
Dimethyl phthalate					10
Di-n-butyl phthalate					10
2,4-Dinitrotoluene					10
2,6-Dinitrotoluene					10
Di-n-octyl phthalate					10
1,2-Diphenylhydrazine (as Azobenzene)					20
Fluoranthene					10
Fluorene					10
Hexachlorobenzene					5
Hexachlorobutadiene					10
Hexachlorocyclopentadiene					10
Hexachloroethane					20
Indeno(1,2,3-cd)pyrene					5
Isophorone					10
Naphthalene					10
Nitrobenzene					10
N-Nitrosodimethylamine					50
N-Nitrosodi-n-propylamine					20
N-Nitrosodiphenylamine					20
Phenanthrene					10

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Pyrene					10
1,2,4-Trichlorobenzene					10

* Indicate units if different from µg/L.

Table 11 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	Sample 1 (µg/L)*	Sample 2 (µg/L)*	Sample 3 (µg/L)*	Sample 4 (µg/L)*	MAL (µg/L)
Aldrin					0.01
alpha-BHC [alpha-Hexachlorocyclohexane]					0.05
beta-BHC [beta-Hexachlorocyclohexane]					0.05
gamma-BHC [gamma-Hexachlorocyclohexane]					0.05
delta-BHC [delta-Hexachlorocyclohexane]					0.05
Chlordane					0.2
4,4'-DDT					0.02
4,4'-DDE					0.1
4,4'-DDD					0.1
Dieldrin					0.02
Endosulfan I (alpha)					0.01
Endosulfan II (beta)					0.02
Endosulfan sulfate					0.1
Endrin					0.02
Endrin aldehyde					0.1
Heptachlor					0.01
Heptachlor epoxide					0.01
PCB 1242					0.2
PCB 1254					0.2
PCB 1221					0.2
PCB 1232					0.2
PCB 1248					0.2
PCB 1260					0.2
PCB 1016					0.2
Toxaphene					0.3

* Indicate units if different from µg/L.

Attachment: Click to enter text.

TABLE 12 (DIOXINS/FURAN COMPOUNDS)

Complete of Table 12 **is required** for **external outfalls**, as directed below. (Instructions, Pages 59-60)

Indicate which compound(s) are manufactured or used at the facility and provide a brief description of the conditions of its/their presence at the facility (check all that apply).

- ☐ 2,4,5-trichlorophenoxy acetic acid (2,4,5-T) CASRN 93-76-5
- ☐ 2-(2,4,5-trichlorophenoxy) propanoic acid (Silvex, 2,4,5-TP) CASRN 93-72-1
- ☐ 2-(2,4,5-trichlorophenoxy) ethyl 2,2-dichloropropionate (Erbon) CASRN 136-25-4
- ☐ 0,0-dimethyl 0-(2,4,5-trichlorophenyl) phosphorothioate (Ronnel) CASRN 299-84-3
- ☐ 2,4,5-trichlorophenol (TCP) CASRN 95-95-4
- ☐ hexachlorophene (HCP) CASRN 70-30-4
- ☒ None of the above

Description: Click to enter text.

Does the applicant or anyone at the facility know or have any reason to believe that 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) or any congeners of TCDD may be present in the effluent proposed for discharge?

☐ Yes ☒ No

Description: Click to enter text.

If **yes** to either Items a **or** b, complete Table 12 as instructed.

Table 12 for Outfall No.: Click to enter text. **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
2,3,7,8-TCDD	1					10
1,2,3,7,8-PeCDD	1.0					50
2,3,7,8-HxCDDs	0.1					50
1,2,3,4,6,7,8-HpCDD	0.01					50
2,3,7,8-TCDF	0.1					10
1,2,3,7,8-PeCDF	0.03					50
2,3,4,7,8-PeCDF	0.3					50
2,3,7,8-HxCDFs	0.1					50
2,3,4,7,8-HpCDFs	0.01					50

Compound	Toxicity Equivalent Factors	Wastewater Concentration (ppq)	Wastewater Toxicity Equivalents (ppq)	Sludge Concentration (ppt)	Sludge Toxicity Equivalents (ppt)	MAL (ppq)
OCDD	0.0003					100
OCDF	0.0003					100
PCB 77	0.0001					500
PCB 81	0.0003					500
PCB 126	0.1					500
PCB 169	0.03					500
Total						

TABLE 13 (HAZARDOUS SUBSTANCES)

Complete Table 13 **is required** for all **external outfalls** as directed below. (Instructions, Pages 60-61)

Are there any pollutants listed in the instructions (pages 55-62) believed present in the discharge?

☐ Yes ☒ No

Are there pollutants listed in Item 1.c. of Technical Report 1.0 which are believed present in the discharge and have not been analytically quantified elsewhere in this application?

☐ Yes ☒ No

If **yes** to either Items a **or** b, complete Table 13 as instructed.

Table 13 for Outfall No.: N/A **Samples are (check one):** ☐ **Composite** ☐ **Grab**

Pollutant	CASRN	Sample 1 (µg/L)	Sample 2 (µg/L)	Sample 3 (µg/L)	Sample 4 (µg/L)	Analytical Method

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: Click to enter text.
2. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: Click to enter text. feet

b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: Click to enter text.

c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: Click to enter text.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☐ Yes ☒ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: ditch, then tributaries of La Parita Creek

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☒ Man-Made Channel or Ditch

☒ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☒ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☒ other, specify: historical observations by facility staff

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: None

e. The receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.).

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: dry channel

Date and time of observation: various

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☒ oil field activities
☒ agricultural runoff
☒ upstream discharges
☐ urban runoff
☐ septic tanks
☐ other, specify: Click to enter text.

b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☐ other, specify: Click to enter text.

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☒ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: Click to enter text.
2. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: Click to enter text. feet

b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: Click to enter text.

c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: Click to enter text.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☐ Yes ☒ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: ditch, then tributaries of San Miguel Cr

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☒ Man-Made Channel or Ditch

☒ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☒ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☒ other, specify: historical observations by facility staff

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: None

e. The receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.).

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: dry channel

Date and time of observation: various

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☒ oil field activities
☒ agricultural runoff
☒ upstream discharges
☐ urban runoff
☐ septic tanks
☐ other, specify: Click to enter text.

b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☐ other, specify: Click to enter text.

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☒ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 4.0: RECEIVING WATERS

This worksheet **is required** for all TPDES permit applications.

Item 1. Domestic Drinking Water Supply (Instructions, Page 80)

a. There is a surface water intake for domestic drinking water supply located within 5 (five) miles downstream from the point/proposed point of discharge.

☐ Yes ☒ No

If **no**, stop here and proceed to Item 2. If **yes**, provide the following information:

1. The legal name of the owner of the drinking water supply intake: Click to enter text.
2. The distance and direction from the outfall to the drinking water supply intake: Click to enter text.

b. Locate and identify the intake on the USGS 7.5-minute topographic map provided for Administrative Report 1.0.

☐ Check this box to confirm the above requested information is provided.

Item 2. Discharge Into Tidally Influenced Waters (Instructions, Page 80)

If the discharge is to tidally influenced waters, complete this section. Otherwise, proceed to Item 3.

a. Width of the receiving water at the outfall: Click to enter text. feet

b. Are there oyster reefs in the vicinity of the discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the oyster reefs: Click to enter text.

c. Are there sea grasses within the vicinity of the point of discharge?

☐ Yes ☐ No

If **yes**, provide the distance and direction from the outfall(s) to the grasses: Click to enter text.

Item 3. Classified Segment (Instructions, Page 80)

The discharge is/will be directly into (or within 300 feet of) a classified segment.

☐ Yes ☒ No

If **yes**, stop here and do not complete Items 4 and 5 of this worksheet or Worksheet 4.1.

If **no**, complete Items 4 and 5 and Worksheet 4.1 may be required.

Item 4. Description of Immediate Receiving Waters (Instructions, Page 80)

a. Name of the immediate receiving waters: ditch, then tributaries of Atascosa River

b. Check the appropriate description of the immediate receiving waters:

☐ Lake or Pond

- Surface area (acres): Click to enter text.
- Average depth of the entire water body (feet): Click to enter text.
- Average depth of water body within a 500-foot radius of the discharge point (feet): Click to enter text.

☒ Man-Made Channel or Ditch

☒ Stream or Creek

☐ Freshwater Swamp or Marsh

☐ Tidal Stream, Bayou, or Marsh

☐ Open Bay

☐ Other, specify:

If **Man-Made Channel or Ditch** or **Stream or Creek** were selected above, provide responses to Items 4.c – 4.g below:

c. For **existing discharges**, check the description below that best characterizes the area **upstream** of the discharge.

For **new discharges**, check the description below that best characterizes the area **downstream** of the discharge.

☒ Intermittent (dry for at least one week during most years)

☐ Intermittent with Perennial Pools (enduring pools containing habitat to maintain aquatic life uses)

☐ Perennial (normally flowing)

Check the source(s) of the information used to characterize the area upstream (existing discharge) or downstream (new discharge):

☐ USGS flow records

☐ personal observation

☐ historical observation by adjacent landowner(s)

☒ other, specify: historical observations by facility staff

d. List the names of all perennial streams that join the receiving water within three miles downstream of the discharge point: None

e. The receiving water characteristics change within three miles downstream of the discharge (e.g., natural or man-made dams, ponds, reservoirs, etc.).

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

f. General observations of the water body during normal dry weather conditions: dry channel

Date and time of observation: various

g. The water body was influenced by stormwater runoff during observations.

☐ Yes ☒ No

If **yes**, describe how: Click to enter text.

Item 5. General Characteristics of Water Body (Instructions, Page 81)

a. Is the receiving water upstream of the existing discharge or proposed discharge site influenced by any of the following (check all that apply):

☒ oil field activities
☒ agricultural runoff
☒ upstream discharges
☐ urban runoff
☐ septic tanks
☐ other, specify: Click to enter text.

b. Uses of water body observed or evidence of such uses (check all that apply):

☐ livestock watering
☐ non-contact recreation
☐ domestic water supply
☐ contact recreation
☐ fishing
☐ industrial water supply
☐ irrigation withdrawal
☐ navigation
☐ picnic/park activities
☐ other, specify: Click to enter text.

c. Description which best describes the aesthetics of the receiving water and the surrounding area (check only one):

☐ **Wilderness:** outstanding natural beauty; usually wooded or un-pastured area: water clarity exceptional

☐ **Natural Area:** trees or native vegetation common; some development evident (from fields, pastures, dwellings); water clarity discolored

☒ **Common Setting:** not offensive, developed but uncluttered; water may be colored or turbid

☐ **Offensive:** stream does not enhance aesthetics; cluttered; highly developed; dumping areas; water discolored

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 5.0: SEWAGE SLUDGE MANAGEMENT AND DISPOSAL

The following information **is required** for all TPDES permit applications that meet the conditions as outlined in Technical Report 1.0, Item 7.

Item 1. Sewage Sludge Solids Management Plan (Instructions, Page 84)

a. Is this a new permit application or an amendment permit application?

☐ Yes ☒ No

b. Does or will the facility discharge in the Lake Houston watershed?

☐ Yes ☒ No

If **yes** to either Item 1.a **or** 1.b, attach a solids management plan. **Attachment:** N/A

Item 2. Sewage Sludge Management and Disposal (Instructions, Page 84)

a. Check the box next to the sludge disposal method(s) authorized under the facility's existing permit (check all that apply).

☐ Permitted landfill

☐ Marketing and distribution by the permittee, attach Form TCEQ-00551

☐ Registered land application site, attach Form TCEQ-00565

☐ Processed by the permittee, attach Form TCEQ-00744

☐ Surface disposal site (sludge monofill), attach Form TCEQ-00744

☒ Transported to another WWTP

☐ Beneficial land application, attach Form TCEQ-10451

☐ Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach the required TCEQ forms as directed. Failure to submit the required TCEQ form will result in delays in processing the application

Attachment: Click to enter text.

b. Provide the following information for each disposal site:

Disposal site name: Click to enter text.

TCEQ Permit/Registration Number: Click to enter text.

County where disposal site is located: Click to enter text.

c. Method of sewage sludge transportation:

☒ truck ☐ train ☐ pipe ☐ other: Click to enter text.

TCEQ Hauler Registration Number: Click to enter text.

d. Sludge is transported as a:

☐ liquid ☒ semi-liquid ☐ semi-solid ☐ solid

e. Purpose of land application: ☐ reclamation ☐ soil conditioning ☐ N/A

f. If sewage sludge is transported to another WWTP for treatment, attach a written statement or copy of contractual agreements confirming that the WWTP identified above will accept and be responsible for the sludge from this facility for the life of the permit (at least 5 years).

Attachment: Click to enter text.

Item 3. Authorization for Sewage Sludge Disposal (Instructions, Page 85)

If this is a new or major amendment application which requests authorization of a new sewage sludge disposal method, check the new sewage disposal method(s) requested for authorization (check all that apply):

☐ Marketing and distribution by the permittee, attach Form TCEQ-00551

☐ Processed by the permittee, attach Form TCEQ-00744

☐ Surface disposal site (sludge monofill), attach Form TCEQ-00744

☐ Beneficial land application, attach Form TCEQ-10451

☐ Incineration, attach Form TCEQ-00744

Based on the selection(s) made above, complete and attach any required TCEQ forms, as directed. Failure to submit the required TCEQ form will result in delays in processing the application.

Attachment: N/A

NOTE: New authorization for beneficial land application, incineration, processing, or disposal in the TPDES permit or TLAP **requires a major amendment to the permit**. New authorization for composting may require a major amendment to the permit. See the instructions to determine if a major amendment is required or if authorization for composting can be added through the renewal process.

INDUSTRIAL WASTEWATER PERMIT APPLICATION WORKSHEET 7.0: STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITIES

This worksheet **is required** for all TPDES permit applications requesting individual permit coverage for discharges consisting of **either**: 1) solely of stormwater discharges associated with industrial activities, as defined in *40 CFR § 122.26(b)(14)(i-xi)*, **or** 2) stormwater discharges associated with industrial activities and any of the listed allowable non-stormwater discharges, as defined in the MSGP (TXR05000), Part II, Section A, Item 6.

Discharges of stormwater as defined in *40 CFR § 122.26 (b)(13)* are not required to obtain authorization under a TPDES permit (see exceptions at *40 CFR §§ 122.26(a)(1)* and *(9)*). Authorization for discharge may be required from a local municipal separate storm sewer system.

Item 1. Applicability (Instructions, Page 89)

Do discharges from any of the existing/proposed outfalls consist either 1) solely of stormwater discharges associated with industrial activities **or** 2) stormwater discharges associated with industrial activities and any of the allowable non-stormwater discharges?

☐ Yes ☒ No

If **no**, stop here. If **yes**, proceed as directed.

Item 2. Stormwater Coverage (Instructions, Page 89)

List each existing/proposed stormwater outfall at the facility and indicate which type of authorization covers or is proposed to cover discharges.

Authorization Coverage

Outfall	Authorization under MSGP	Authorized Under Individual Permit
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐
	☐	☐

If **all** existing/proposed outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) are **authorized under the MSGP**, **stop** here.

If **seeking authorization** for any outfalls which discharge stormwater associated with industrial activities (and any of the allowable non-stormwater discharges) **under an individual permit**, **proceed**.

NOTE: The following information is required for each existing/proposed stormwater outfall for which the facility is seeking individual permit authorization under this application

Item 3. Site Map (Instructions, Page 90)

Attach a site map or maps (drawn to scale) of the entire facility with the following information.

- the location of each stormwater outfall to be covered by the permit
- an outline of the drainage area that is within the facility's boundary and that contributes stormwater to each outfall to be covered by the permit
- connections or discharge points to municipal separate storm sewer systems
- locations of all structures (e.g. buildings, garages, storage tanks)
- structural control devices that are designed to reduce pollution in discharges of stormwater associated with industrial activities
- process wastewater treatment units (including ponds)
- bag house and other air treatment units exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)
- landfills; scrapyards; surface water bodies (including wetlands)
- vehicle and equipment maintenance areas
- physical features of the site that may influence discharges of stormwater associated with industrial activities or contribute a dry weather flow
- locations where spills or leaks of reportable quality (as defined in *30 TAC § 327.4*) have occurred during the three years before this application was submitted to obtain coverage under an individual permit
- processing areas, storage areas, material loading/unloading areas, and other locations where significant materials are exposed to stormwater (stormwater runoff, snow melt runoff, and surface runoff and drainage)

☐ Check the box to confirm all above information was provided on the facility site map(s).

Attachment: Click to enter text.

Item 4. Facility/Site Information (Instructions, Page 90)

a. Provide the area of impervious surface and the total area drained by each stormwater outfall requested for authorization by this permit application.

Impervious Surfaces

Outfall	Area of Impervious Surface (include units)	Total Area Drained (include units)

b. Provide the following local area rainfall information and the source of the information.

Wettest month: Click to enter text.

Average rainfall for wettest month (total inches): Click to enter text.

25-year, 24-hour rainfall (inches): Click to enter text.

Source: Click to enter text.

c. Attach an inventory, or list, of materials currently handled at the facility that may be exposed to precipitation. **Attachment:** Click to enter text.

d. Attach narrative descriptions of the industrial processes and activities involving the materials in the above-listed inventory that occur outdoors or in some manner that may result in exposure of the materials to precipitation or runoff (see instructions for guidance). **Attachment:** Click to enter text.

e. Describe any BMPs and controls the facility uses/proposes to prevent or effectively reduce pollution in stormwater discharges from the facility: Click to enter text.

Item 5. Pollutant Analysis (Instructions, Page 91)

a. Provide the date range of all sampling events conducted to obtain the analytical data submitted with this application (e.g., 05/01/2018-05/30/2018): Click to enter text.

b. ☐ Check the box to confirm all samples were collected no more than 12 months prior to the date of application submittal.

c. Complete Table 17 as directed on page 92 of the Instructions.

Table 17 for Outfall No.: Click to enter text.

Pollutant	**Grab Sample* Maximum (mg/L)**	**Composite Sample** Maximum (mg/L)**	**Grab Sample* Average (mg/L)**	**Composite Sample** Average (mg/L)**	**Number of Storm Events Sampled**	**MAL (mg/L)**
pH (standard units)	(max)	—	(min)	—		—
Total suspended solids						—
Chemical oxygen demand						—
Total organic carbon						—
Oil and grease						—
Arsenic, total						0.0005
Barium, total						0.003
Cadmium, total						0.001
Chromium, total						0.003
Chromium, trivalent						—
Chromium, hexavalent						0.003
Copper, total						0.002
Lead, total						0.0005
Mercury, total						0.000005
Nickel, total						0.002

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled	MAL (mg/L)
Selenium, total						0.005
Silver, total						0.0005
Zinc, total						0.005

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

d. Complete Table 18 as directed on pages 92-94 of the Instructions.

Table 18 for Outfall No.: Click to enter text.

Pollutant	Grab Sample* Maximum (mg/L)	Composite Sample** Maximum (mg/L)	Grab Sample* Average (mg/L)	Composite Sample** Average (mg/L)	Number of Storm Events Sampled

* Taken during first 30 minutes of storm event

** Flow-weighted composite sample

Attachment: Click to enter text.

Item 6. Storm Event Data (Instructions, Page 93)

Provide the following data for the storm event(s) which resulted in the maximum values for the analytical data submitted:

Date of storm event: Click to enter text.

Duration of storm event (minutes): Click to enter text.

Total rainfall during storm event (inches): Click to enter text.

Number of hours the between beginning of the storm measured and the end of the previous measurable storm event (hours): Click to enter text.

Maximum flow rate during rain event (gallons/minute): Click to enter text.

Total stormwater flow from rain event (gallons): Click to enter text.

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

Attachment A1

TCEQ ePay Receipt

Transaction Information

Trace Number: 582EA000671280
Date: 06/06/2025 10:30 AM
Payment Method: CC - Authorization 0000025019
ePay Actor: DAVID BURRIS
TCEQ Amount: $2,015.00
Texas.gov Fee: $45.59
Texas.gov Price: $2,060.59*

* This service is provided by Texas.gov, the official website of Texas. The price of this service includes funds that support the ongoing operations and enhancements of Texas.gov, which is provided by a third party in partnership with the State.

Payment Contact Information

Name: DAVID BURRIS
Company: SAN MIGUEL ELECTRIC COOP
Address: 6200 FM 3387, CHRISTINE, TX 78012
Phone: 830-784-3411

Cart Items

Voucher	Fee Description	AR Number	Amount
769853	WW PERMIT - MAJOR INDUSTRIAL FACILITY - RENEWAL		$2,000.00
769854	30 TAC 305.53B WQ RENEWAL NOTIFICATION FEE		$15.00
		TCEQ Amount:	**$2,015.00**

ATTACHMENT A

TCEQ Use Only

TCEQ Core Data Form

For detailed instructions on completing this form, please read the Core Data Form Instructions or call 512-239-5175.

SECTION I: General Information

1. Reason for Submission (*If other is checked please describe in space provided.*)

☐ New Permit, Registration or Authorization (*Core Data Form should be submitted with the program application.*)

☒ Renewal *(Core Data Form should be submitted with the renewal form)* ☐ Other

2. Customer Reference Number *(if issued)*	Follow this link to search for CN or RN numbers in Central Registry**	**3. Regulated Entity Reference Number** *(if issued)*
CN 600132278		**RN 100226539**

SECTION II: Customer Information

4. General Customer Information	**5. Effective Date for Customer Information Updates** (mm/dd/yyyy)	4/30/2025

☐ New Customer ☒ Update to Customer Information ☐ Change in Regulated Entity Ownership
☐ Change in Legal Name (Verifiable with the Texas Secretary of State or Texas Comptroller of Public Accounts)

The Customer Name submitted here may be updated automatically based on what is current and active with the Texas Secretary of State (SOS) or Texas Comptroller of Public Accounts (CPA).

6. Customer Legal Name *(If an individual, print last name first: eg: Doe, John)*	*If new Customer, enter previous Customer below:*
San Miguel Electric Cooperative, Inc.	

7. TX SOS/CPA Filing Number	**8. TX State Tax ID** (11 digits)	**9. Federal Tax ID** (9 digits)	**10. DUNS Number** *(if applicable)*

11. Type of Customer:	☒ Corporation	☐ Individual	Partnership: ☐ General ☐ Limited
Government: ☐ City ☐ County ☐ Federal ☐ Local ☐ State ☐ Other		☐ Sole Proprietorship	☐ Other:

12. Number of Employees	**13. Independently Owned and Operated?**
☐ 0-20 ☐ 21-100 ☒ 101-250 ☐ 251-500 ☐ 501 and higher	☐ **Yes** ☐ **No**

14. Customer Role (Proposed or Actual) – *as it relates to the Regulated Entity listed on this form. Please check one of the following*

☐ Owner ☐ Operator ☒ Owner & Operator
☐ Occupational Licensee ☐ Responsible Party ☐ VCP/BSA Applicant ☐ Other:

15. Mailing Address:	PO Box 280						
	City	Jourdanton	**State**	TX	**ZIP**	78026	**ZIP + 4**

16. Country Mailing Information *(if outside USA)*	**17. E-Mail Address** *(if applicable)*
	dburris@smeci.net

18. Telephone Number	19. Extension or Code	20. Fax Number *(if applicable)*
(830) 784-3411		(830) 784-3411

SECTION III: Regulated Entity Information

21. General Regulated Entity Information *(If 'New Regulated Entity" is selected, a new permit application is also required.)*

☐ New Regulated Entity ☐ Update to Regulated Entity Name ☒ Update to Regulated Entity Information

The Regulated Entity Name submitted may be updated, in order to meet TCEQ Core Data Standards (removal of organizational endings such as Inc, LP, or LLC).

22. Regulated Entity Name *(Enter name of the site where the regulated action is taking place.)*

San Miguel Lignite Mine

23. Street Address of the Regulated Entity: ***(No PO Boxes)***	6200 FM 3387							
	City	Christine	**State**	TX	**ZIP**	78012	**ZIP + 4**	
24. County	Atascosa							

If no Street Address is provided, fields 25-28 are required.

25. Description to Physical Location:	

26. Nearest City	**State**	**Nearest ZIP Code**

Latitude/Longitude are required and may be added/updated to meet TCEQ Core Data Standards. (Geocoding of the Physical Address may be used to supply coordinates where none have been provided or to gain accuracy).

27. Latitude (N) In Decimal:			**28. Longitude (W) In Decimal:**		
Degrees	Minutes	Seconds	Degrees	Minutes	Seconds

29. Primary SIC Code (4 digits)	**30. Secondary SIC Code** (4 digits)	**31. Primary NAICS Code** (5 or 6 digits)	**32. Secondary NAICS Code** (5 or 6 digits)
1221		212111	

33. What is the Primary Business of this entity? *(Do not repeat the SIC or NAICS description.)*

lignite mining

34. Mailing Address:								
	PO Box 280							
	City	**Jourdanton**	**State**	**TX**	**ZIP**	**78026**	**ZIP + 4**	

35. E-Mail Address:	**dburris@smeci.net**

36. Telephone Number	**37. Extension or Code**	**38. Fax Number** *(if applicable)*
(830) 784-3411		**(830) 784-3411**

39. TCEQ Programs and ID Numbers Check all Programs and write in the permits/registration numbers that will be affected by the updates submitted on this form. See the Core Data Form instructions for additional guidance.

☐ Dam Safety	☐ Districts	☐ Edwards Aquifer	☐ Emissions Inventory Air	☐ Industrial Hazardous Waste
☐ Municipal Solid Waste	☐ New Source Review Air	☐ OSSF	☐ Petroleum Storage Tank	☐ PWS
☐ Sludge	☒ Storm Water	☐ Title V Air	☐ Tires	☐ Used Oil
☐ Voluntary Cleanup	☒ Wastewater	☐ Wastewater Agriculture	☒ Water Rights	☐ Other:

SECTION IV: Preparer Information

40. Name:	James Miertschin	**41. Title:**	Engineer
42. Telephone Number	**43. Ext./Code**	**44. Fax Number**	**45. E-Mail Address**
(512) 327-2708		(512) 327-2733	jm@jmaenv.com

SECTION V: Authorized Signature

46. By my signature below, I certify, to the best of my knowledge, that the information provided in this form is true and complete, and that I have signature authority to submit this form on behalf of the entity specified in Section II, Field 6 and/or as required for the updates to the ID numbers identified in field 39.

Company:	San Miguel Electric Cooperative, Inc.	**Job Title:**	Fuels Manager
Name *(In Print):*	David Burris	**Phone:**	(830) 784- 3411
Signature:	D2 3 -	**Date:**	6/6/2025

ATTACHMENT B

Admin Report 1.0: Public Places Information

Atascosa County:

Atascosa County Courthouse

Office of the County Clerk

1 Courthouse Circle Drive, Suite 102

Jourdanton, TX 78026

Contact Name: County Clerk Theresa Carrasco (830) 767-2511

McMullen County:

McMullen County Courthouse

Office of the County Clerk

501 River Street

Tilden, TX 78072

Contact Name: County Clerk Mattie Sadovsky (361) 274-3215

ATTACHMENT C

Plain Language Summary

The following summary is provided for this pending water quality permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

San Miguel Electric Cooperative, Inc. (CN600132278) San Miguel lignite mine (RN100226539). The facility is located at 6200 Farm-to-Market Road 3387, Christine, in Atascosa and McMullen Counties, Texas 78012.

This application is for a renewal of the existing TPDES permit for the facility. Lignite mines are unique in that they typically have multiple ponds that receive stormwater runoff, mine depressurization water, and mine pit dewatering water, and as mining progresses within the mine permitted boundaries, more ponds and structures are periodically added.

The existing TPDES permit for the San Miguel lignite mine features 40 treatment ponds along with 39 designated outfalls. As mining progresses, and as reclamation activities take place, there are inevitably changes to the layout and sizing of the network of ponds. All of the treatment ponds are authorized to discharge at an intermittent and flow variable rate, which is necessary since the ponds are designed to capture pit water, depressurization water, and stormwater runoff from the mine area. The volume of mine pit water, depressurization water, and rainfall and ultimately stormwater runoff is highly variable. Effluent limitations include parameters of total suspended solids, dissolved iron, dissolved manganese, and pH for active mining area outfalls, and parameters of dissolved iron and pH for post-mining area outfalls. All of the effluent limitations are in accordance with Federal effluent limitation guidelines that are based on 40 CFR Part 434.

The wastewater treatment system is focused on the capture of stormwater runoff, mine depressurization water, and mine pit water. Ponds are the treatment method applied for these waste streams, and the construction details of these ponds are specified by the Texas Railroad Commission. Fundamentally, the ponds capture their intended water, and sedimentation of solids is allowed to take place.

ATTACHMENT D

Texas Commission on Environmental Quality

Public Involvement Plan Form for Permit and Registration Applications

The Public Involvement Plan is intended to provide applicants and the agency with information about how public outreach will be accomplished for certain types of applications in certain geographical areas of the state. It is intended to apply to new activities; major changes at existing plants, facilities, and processes; and to activities which are likely to have significant interest from the public. This preliminary screening is designed to identify applications that will benefit from an initial assessment of the need for enhanced public outreach.

All applicable sections of this form should be completed and submitted with the permit or registration application. For instructions on how to complete this form, see TCEQ-20960-inst.

Section 1. Preliminary Screening

☐ New Permit or Registration Application

☐ New Activity – modification, registration, amendment, facility, etc. (see instructions)

If neither of the above boxes are checked, completion of the form is not required and does not need to be submitted.

Section 2. Secondary Screening

☐ Requires public notice,

☐ Considered to have significant public interest, **and**

☐ Located within any of the following geographical locations:

- Austin
- Dallas
- Fort Worth
- Houston
- San Antonio
- West Texas
- Texas Panhandle
- Along the Texas/Mexico Border
- Other geographical locations should be decided on a case-by-case basis

If all the above boxes are not checked, a Public Involvement Plan is not necessary. Stop after Section 2 and submit the form.

☒ Public Involvement Plan not applicable to this application. Provide **brief** explanation.

Normal public notice publication should be adequate for application.

Section 3. Application Information

Type of Application (check all that apply):

Air ☐ Initial ☐ Federal ☐ Amendment ☐ Standard Permit ☐ Title V

Waste ☐ Municipal Solid Waste ☐ Industrial and Hazardous Waste ☐ Scrap Tire
☐ Radioactive Material Licensing ☐ Underground Injection Control

Water Quality

☐ Texas Pollutant Discharge Elimination System (TPDES)

- ☐ Texas Land Application Permit (TLAP)
- ☐ State Only Concentrated Animal Feeding Operation (CAFO)
- ☐ Water Treatment Plant Residuals Disposal Permit

☐ Class B Biosolids Land Application Permit

☐ Domestic Septage Land Application Registration

Water Rights New Permit

☐ New Appropriation of Water

☐ New or existing reservoir

Amendment to an Existing Water Right

☐ Add a New Appropriation of Water

☐ Add a New or Existing Reservoir

☐ Major Amendment that could affect other water rights or the environment

Section 4. Plain Language Summary

Provide a brief description of planned activities.

Section 5. Community and Demographic Information

Community information can be found using EPA's EJ Screen, U.S. Census Bureau information, or generally available demographic tools.

Information gathered in this section can assist with the determination of whether alternative language notice is necessary. Please provide the following information.

(City)

(County)

(Census Tract)
Please indicate which of these three is the level used for gathering the following information.

☐ City ☐ County ☐ Census Tract

(a) Percent of people over 25 years of age who at least graduated from high school

(b) Per capita income for population near the specified location

(c) Percent of minority population and percent of population by race within the specified location

(d) Percent of Linguistically Isolated Households by language within the specified location

(e) Languages commonly spoken in area by percentage

(f) Community and/or Stakeholder Groups

(g) Historic public interest or involvement

Section 6. Planned Public Outreach Activities

(a) Is this application subject to the public participation requirements of Title 30 Texas Administrative Code (30 TAC) Chapter 39?

☒ Yes ☐ No

(b) If yes, do you intend at this time to provide public outreach other than what is required by rule?

☐ Yes ☒ No

If Yes, please describe.

If you answered "yes" that this application is subject to 30 TAC Chapter 39, answering the remaining questions in Section 6 is not required.

(c) Will you provide notice of this application in alternative languages?

☐ Yes ☐ No

Please refer to Section 5. If more than 5% of the population potentially affected by your application is Limited English Proficient, then you are required to provide notice in the alternative language.

If yes, how will you provide notice in alternative languages?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

(d) Is there an opportunity for some type of public meeting, including after notice?

☐ Yes ☐ No

(e) If a public meeting is held, will a translator be provided if requested?

☐ Yes ☐ No

(f) Hard copies of the application will be available at the following (check all that apply):

☐ TCEQ Regional Office ☐ TCEQ Central Office

☐ Public Place (specify)

Section 7. Voluntary Submittal

For applicants voluntarily providing this Public Involvement Plan, who are not subject to formal public participation requirements.

Will you provide notice of this application, including notice in alternative languages?

☐ Yes ☐ No

What types of notice will be provided?

☐ Publish in alternative language newspaper

☐ Posted on Commissioner's Integrated Database Website

☐ Mailed by TCEQ's Office of the Chief Clerk

☐ Other (specify)

ATTACHMENT E

Leases for the lignite mine areas have been previously provided to TCEQ in permitting applications.

ATTACHMENT F

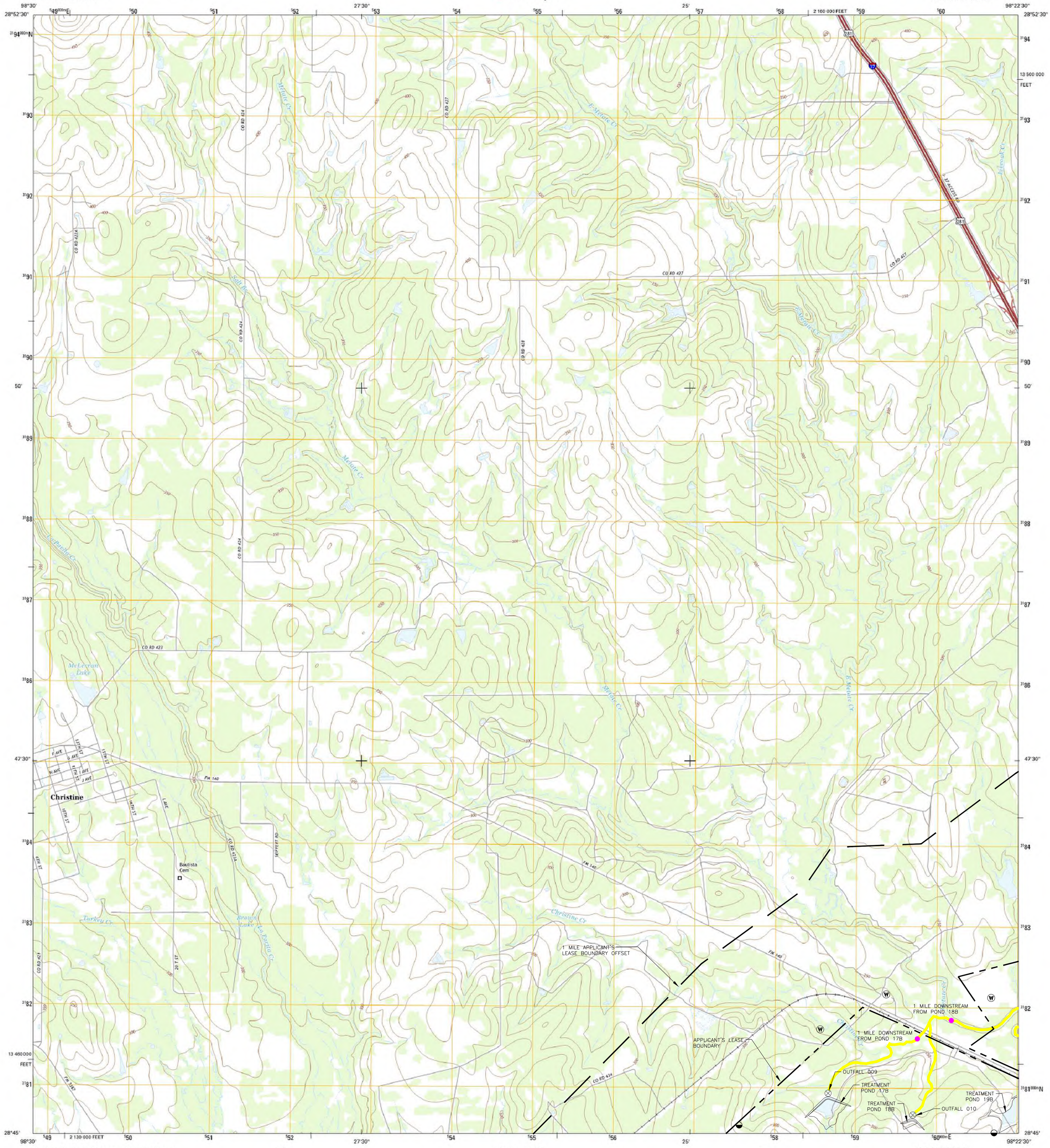
NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CHRISTINE EAST QUADRANGLE
TEXAS-ATASCOSA CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD
Interstate Route — US Route — State Route

1	2	3
4		5
6	7	8

1 Jourdanton
2 Pleasanton
3 Leal
4 Christine West
5 McCoy
6 Cross NE
7 Caballos Creek
8 Whitsett
ADJOINING QUADRANGLES

CHRISTINE EAST, TX
2016

NSN 7643016395637

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

USGS QUADRANGLE MAP
CHRISTINE EAST, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

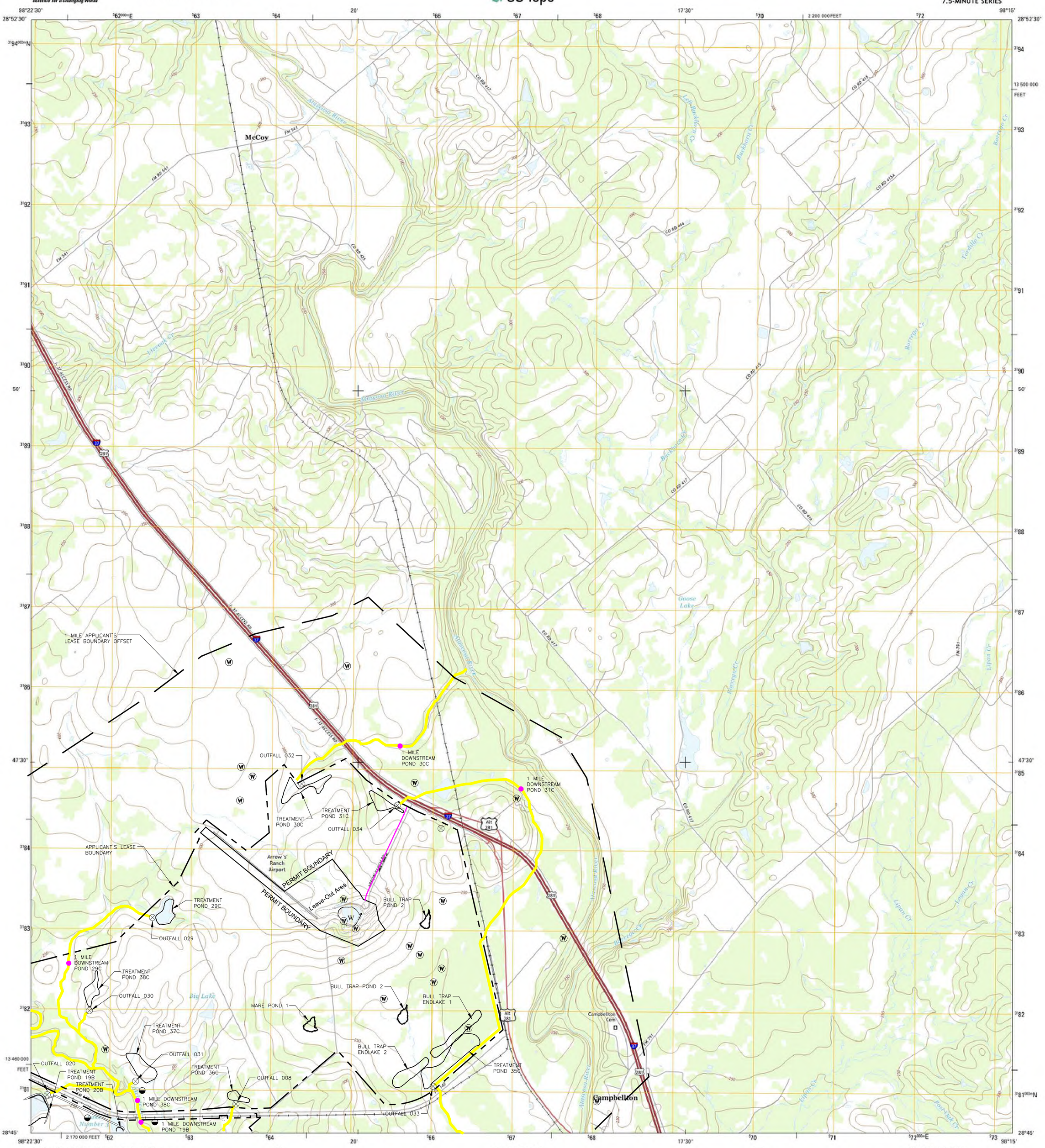
NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

MCCOY QUADRANGLE
TEXAS-ATASCOSA CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway, Secondary Hwy, Ramp, Local Connector, Local Road, 4WD
Interstate Route, US Route, State Route

1 Pleasanton
2 Leal
3 Three Oaks
4 Christine East
5 Pashing
6 Caballos Creek
7 Whitsett
8 Peggy
ADJOINING QUADRANGLES

MCCOY, TX
2016

7643016397252

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

USGS QUADRANGLE MAP McCOY, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

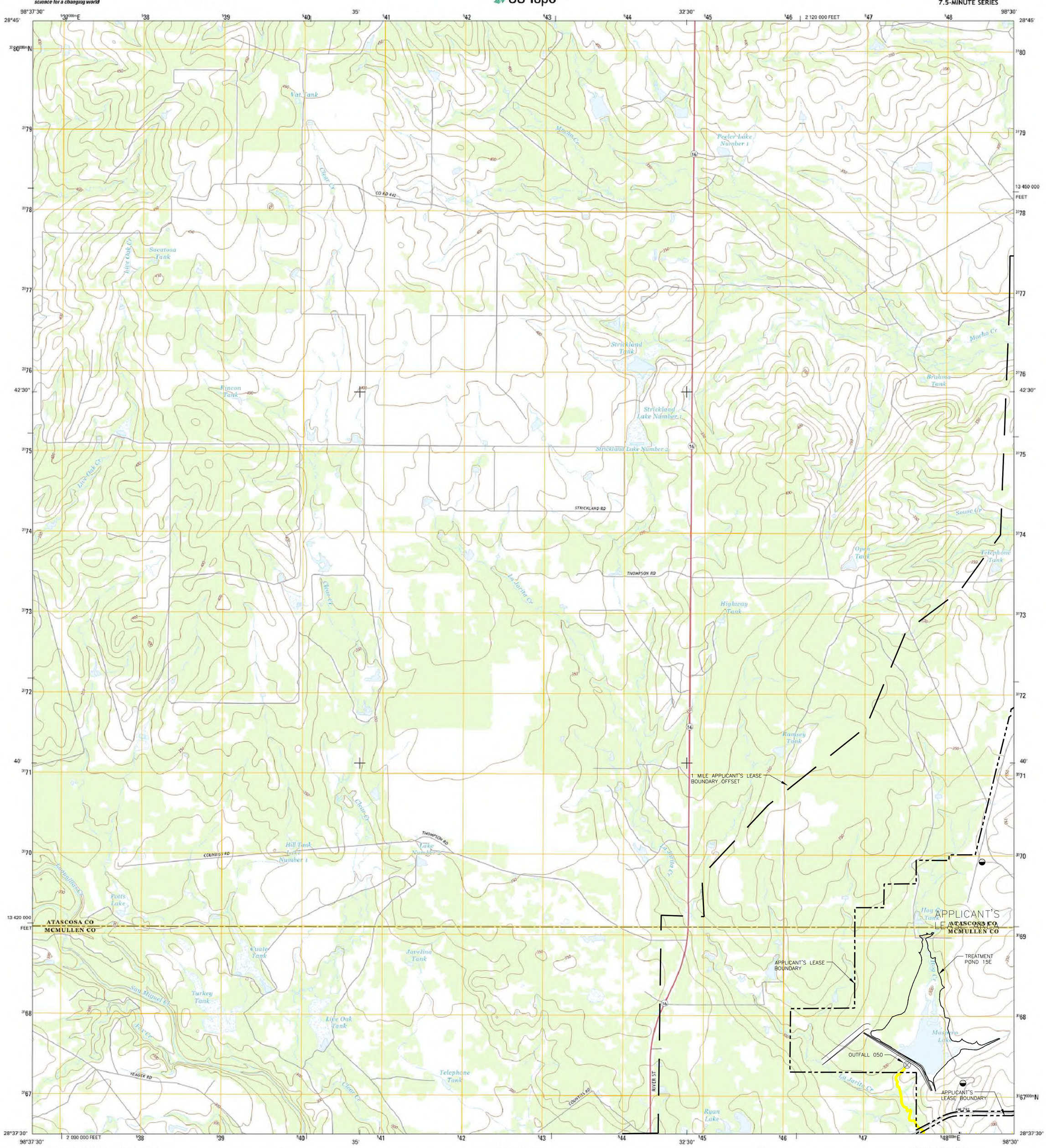
JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CROSS NE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

ROAD CLASSIFICATION
Expressway, Local Connector, Secondary Hwy, Local Road, Ramp, 4WD, Interstate Route, US Route, State Route

1	2	3
4		5
6	7	8

1 Charlotte
2 Christine West
3 Christine East
4 San Miguel Ranch
5 Caballos Creek
6 Fertile Creek
7 Cross
8 Crowther
ADJOINING QUADRANGLES

CROSS NE, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

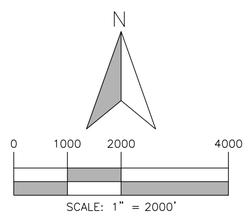
NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS



USGS QUADRANGLE MAP
CROSS NE, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CABALLOS CREEK QUADRANGLE
TEXAS
7.5-MINUTE SERIES

98°30' 28°45' 49 50 51 52 27'30" 54 55 56 25' 58 2 160 000 FEET 59 60 98°22'30" 28°45'
3180 000mN 3180 3179 3178 3177 3176 42'30" 3175 3174 3173 3172 40' 3171 3170 3169 3168 3167 28°37'30"
13 450 000 FEET
13 420 000 FEET
2 130 000 FEET
60 000mE

APPLICANT'S LEASE AREA
SAN MIGUEL POWER PLANT SITE
APPLICANT'S PROPERTY BOUNDARY
APPLICANT'S LEASE BOUNDARY
1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
ATASCOSA CO
MCMULLEN CO

TREATMENT POND M
TREATMENT POND 14B
HOMESTEAD POND
PUPIL POND
DOS RIOS POND
TREATMENT POND 27B
TREATMENT POND 9B
ALLIGATOR POND
ACHILLES POND
OUTFALL 013
OUTFALL 019
1 MILE DOWNSTREAM FROM POND 9B PUMPED
POND L
POND B1
POND O
OUTFALL 018
1 MILE DOWNSTREAM FROM POND 6 & H
1 MILE DOWNSTREAM FROM POND 7 & I
1 MILE DOWNSTREAM FROM POND J
OUTFALL 015
TREATMENT POND I
TREATMENT POND J
TREATMENT POND 11
TREATMENT POND 10
1 MILE DOWNSTREAM FROM POND 10
1 MILE DOWNSTREAM FROM POND 9B GRAVITY
1 MILE DOWNSTREAM FROM POND 11
TREATMENT POND 23B
OUTFALL 016
TREATMENT POND H
OUTFALL 011
OUTFALL 012
OUTFALL 017
TREATMENT POND 7
TREATMENT POND 6
OUTFALL 014
OUTFALL 007
1 MILE DOWNSTREAM FROM POND 5 & G
1 MILE DOWNSTREAM FROM POND 2 & F
TREATMENT POND K
1 MILE DOWNSTREAM FROM POND K
1 MILE DOWNSTREAM FROM POND 3, D & E
OUTFALL 028
1 MILE DOWNSTREAM FROM POND A
1 MILE DOWNSTREAM FROM POND B
OFFICE
TREATMENT POND F
TREATMENT POND D
TREATMENT POND E
OUTFALL 006
TRUCK WASH
SUBSTATION
EVAPORATION POND C
1 MILE DOWNSTREAM FROM POND 13E
OUTFALL 004
TREATMENT POND B
OUTFALL 003
TREATMENT POND A
FUEL ISLAND
BUCKET REPAIR
MINE MAINTENANCE FACILITIES
P-12-1
OUTFALL 002
TREATMENT POND 13E
OUTFALL 001
TREATMENT POND 3
OUTFALL 005
OUTFALL 024
OUTFALL 026
TREATMENT POND 2
POND A1
POND 1
TREATMENT POND G
OUTFALL 027
OUTFALL 025
TREATMENT POND 5
TREATMENT POND 26A
POND A-2
DITCH A-1
TREATMENT POND 25A
WETLAND AW-1
1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
WETLAND E1
TREATMENT POND 12E
APPLICANT'S LEASE BOUNDARY
1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
74 Ranch Airport
Lake Number 1
Lake Number 2
Reuter Lake
Willow Tank
Government Tank
Lewis Tank
Mustang Br
Opossum Cr
Frenchman Br
Brown Tank
Turkey Cr
La Parita Cr
Salt Br
FM 791
FM 721
CO RD 414
RANCH RD 1387
PEELER RANCH RD
MRS SMITH'S RD
POENISCH RD

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads.....U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015
Wetlands.....FWS National Wetlands Inventory 1977 - 2014

MN 4° 27' 79 MILS
GN 0° 14' 5 MILS
UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000
1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

1 Christine West
2 Christine East
3 McCoy
4 Cross NE
5 Whitsett
6 Cross
7 Crowther
8 Willow Hollow Tank
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

CABALLOS CREEK, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

USGS QUADRANGLE MAP
CABALLOS CREEK, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

WHITSETT QUADRANGLE
TEXAS
7.5-MINUTE SERIES

TREATMENT POND 20B
OUTFALL 021
1 MILE DOWNSTREAM FROM POND 37C
1 MILE DOWNSTREAM FROM POND 35C
BEAN POND
PORKCHOP POND
1 MILE DOWNSTREAM FROM POND 36C
1 MILE DOWNSTREAM FROM POND 20B
TREATMENT POND 21B
APPLICANT'S LEASE BOUNDARY
OUTFALL 022
1 MILE DOWNSTREAM FROM POND 21B
TREATMENT POND 22B
OUTFALL 023
1 MILE DOWNSTREAM FROM POND 22B
1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
1 MILE DOWNSTREAM FROM POND 23B

Campbellton
Tom Ranch Lake Number 2
Tom Ranch Lake Number 1
Lipan Hills
Whitsett
Merriman Hollow

ATASCOSA CO
LIVE OAK CO
ATASCOSA CO
MCMULLEN CO
ATASCOSA CO
MCMULLEN CO

13 450 000 FEET
13 420 000 FEET
2 200 000 FEET
2 170 000 FEET

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads.....U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1 MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000 FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

1 Christine East
2 McCoy
3 Fashing
4 Caballos Creek
5 Peggy
6 Crowther
7 Willow Hollow Tank
8 Comanche Hills
ADJOINING QUADRANGLES

ROAD CLASSIFICATION
Expressway
Ramp
Secondary Hwy
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

WHITSETT, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

USGS QUADRANGLE MAP
WHITSETT, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

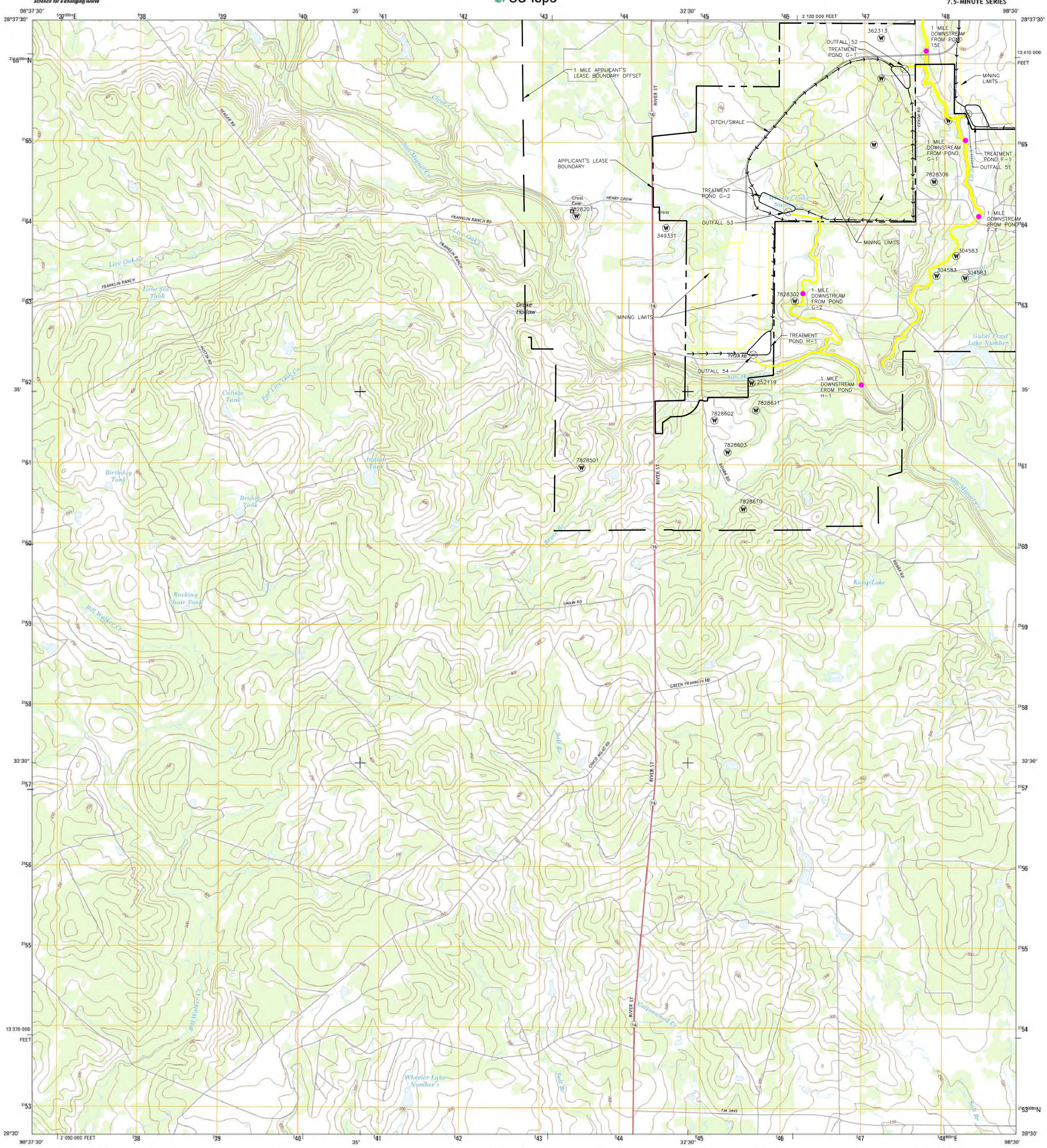
NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

CROSS QUADRANGLE
TEXAS-MCMULLEN CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

QUADRANGLE LOCATION

ROAD CLASSIFICATION

Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

1	2	3
4		5
6	7	8

ADJOINING QUADRANGLES
1 San Miguel Ranch
2 Cross NE
3 Caballos Creek
4 Pettle Creek
5 Crowther
6 Rockaway Creek
7 Tilden
8 Callihan NW

CROSS, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

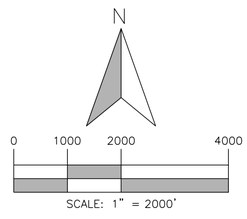
NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS



USGS QUADRANGLE MAP
CROSS, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

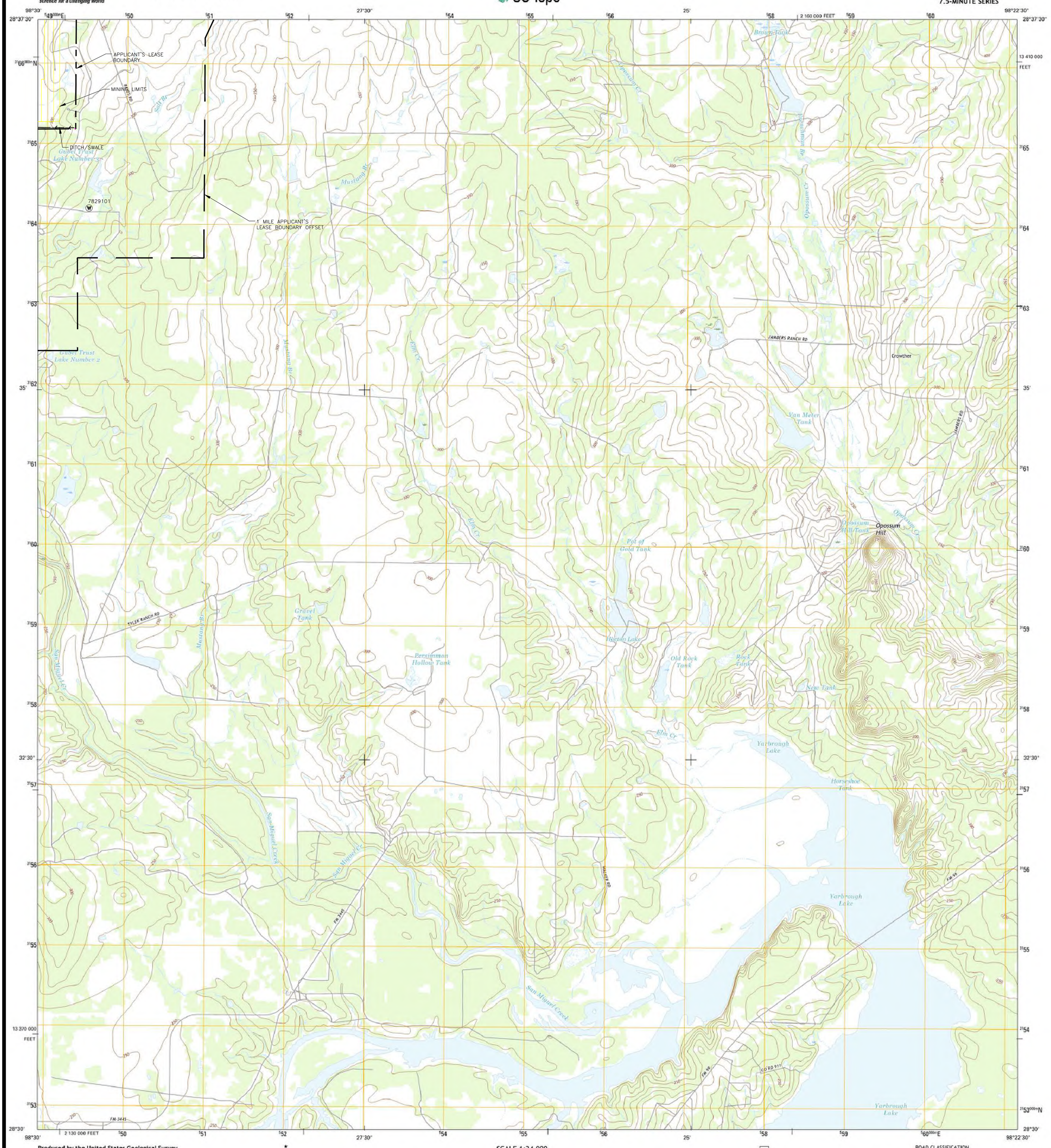
NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CROWTHER QUADRANGLE
TEXAS-MCMULLEN CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads.....U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
RS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Cross NE
2 Caballos Creek
3 Whitsett
4 Cross
5 Willow Hollow Tank
6 Tilden
7 Callihan NW
8 Callihan

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

NSN. 7643016395726
NGA REF NO. USGSX24K109O1

CROWTHER, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

USGS QUADRANGLE MAP
CROWTHER, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

ATTACHMENT G

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

SUPPLEMENTAL PERMIT INFORMATION FORM (SPIF)

FOR AGENCIES REVIEWING DOMESTIC OR INDUSTRIAL TPDES WASTEWATER PERMIT APPLICATIONS

TCEQ USE ONLY:

Application type: _____Renewal _____Major Amendment ____Minor Amendment _____New

County: _____ Segment Number: _____

Admin Complete Date: _____

Agency Receiving SPIF:

_____ Texas Historical Commission _____ U.S. Fish and Wildlife

_____ Texas Parks and Wildlife Department _____ U.S. Army Corps of Engineers

This form applies to TPDES permit applications only. (Instructions, Page 53)

Complete this form as a separate document. TCEQ will mail a copy to each agency as required by our agreement with EPA. If any of the items are not completely addressed or further information is needed, we will contact you to provide the information before issuing the permit. Address each item completely.

Do not refer to your response to any item in the permit application form. Provide each attachment for this form separately from the Administrative Report of the application. The application will not be declared administratively complete without this SPIF form being completed in its entirety including all attachments. Questions or comments concerning this form may be directed to the Water Quality Division's Application Review and Processing Team by email at WQ-ARPTeam@tceq.texas.gov or by phone at (512) 239-4671.

The following applies to all applications:

1. Permittee: San Miguel Electric Cooperative, Inc.

   Permit No. WQ00 02043000 EPA ID No. TX 0083445

   Address of the project (or a location description that includes street/highway, city/vicinity, and county):

   6200 FM 3387, Christine TX 78012

Provide the name, address, phone and fax number of an individual that can be contacted to answer specific questions about the property.

Prefix (Mr., Ms., Miss): Mr.

First and Last Name: David Burris

Credential (P.E, P.G., Ph.D., etc.): Click here to enter text.

Title: Fuels Manager

Mailing Address: PO Box 280

City, State, Zip Code: Jourdanton, TX. 78026

Phone No.: 830 784 3411 Ext.: Click here to enter text. Fax No.: 830 784 3411

E-mail Address: dburris@smeci.net

2. List the county in which the facility is located: Atascosa, McMullen
3. If the property is publicly owned and the owner is different than the permittee/applicant, please list the owner of the property.

N/A

4. Provide a description of the effluent discharge route. The discharge route must follow the flow of effluent from the point of discharge to the nearest major watercourse (from the point of discharge to a classified segment as defined in 30 TAC Chapter 307). If known, please identify the classified segment number.

Attachment SPIF-A

5. Please provide a separate 7.5-minute USGS quadrangle map with the project boundaries plotted and a general location map showing the project area. Please highlight the discharge route from the point of discharge for a distance of one mile downstream. (This map is required in addition to the map in the administrative report).Attachment SPIF-B

Provide original photographs of any structures 50 years or older on the property.

Does your project involve any of the following? Check all that apply.

☒ Proposed access roads, utility lines, construction easements

☐ Visual effects that could damage or detract from a historic property's integrity

☐ Vibration effects during construction or as a result of project design

☒ Additional phases of development that are planned for the future

☐ Sealing caves, fractures, sinkholes, other karst features

☒ Disturbance of vegetation or wetlands

1. List proposed construction impact (surface acres to be impacted, depth of excavation, sealing of caves, or other karst features):

Site is an active lignite mine and is subject to Railroad Commission of Texas mining and reclamation regulations.

2. Describe existing disturbances, vegetation, and land use:

Natural topography has been disturbed by mining; reclamation activities are practiced after mining.

THE FOLLOWING ITEMS APPLY ONLY TO APPLICATIONS FOR NEW TPDES PERMITS AND MAJOR AMENDMENTS TO TPDES PERMITS

3. List construction dates of all buildings and structures on the property:

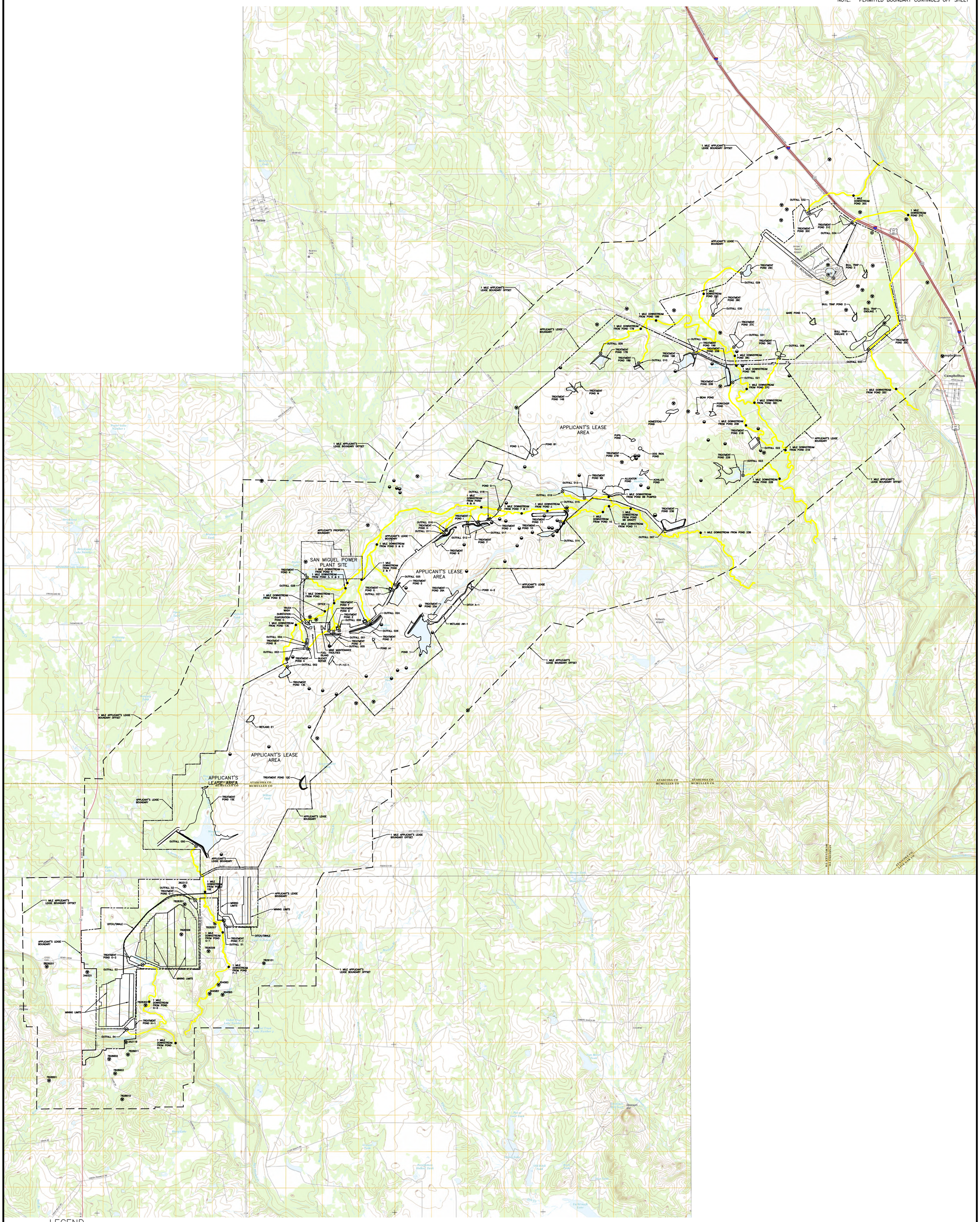
N/A

4. Provide a brief history of the property, and name of the architect/builder, if known.

N/A

ATTACHMENT H

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET



LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N

0 2000 4000 8000

SCALE: 1" = 4000

FACILITIES MAP

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 15 MAY 2025	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

ATTACHMENT I

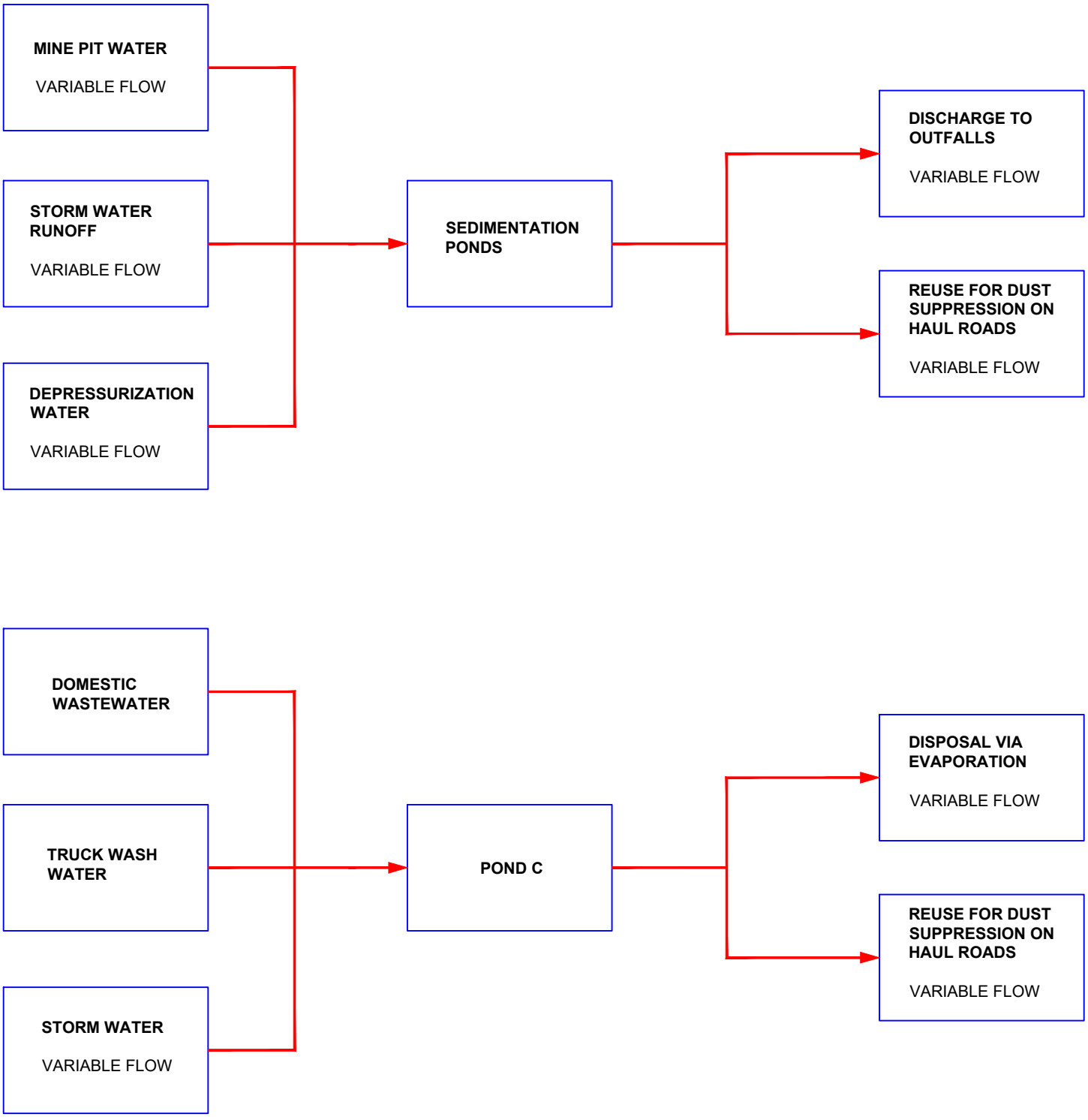
FLOODPLAIN DESCRIPTION

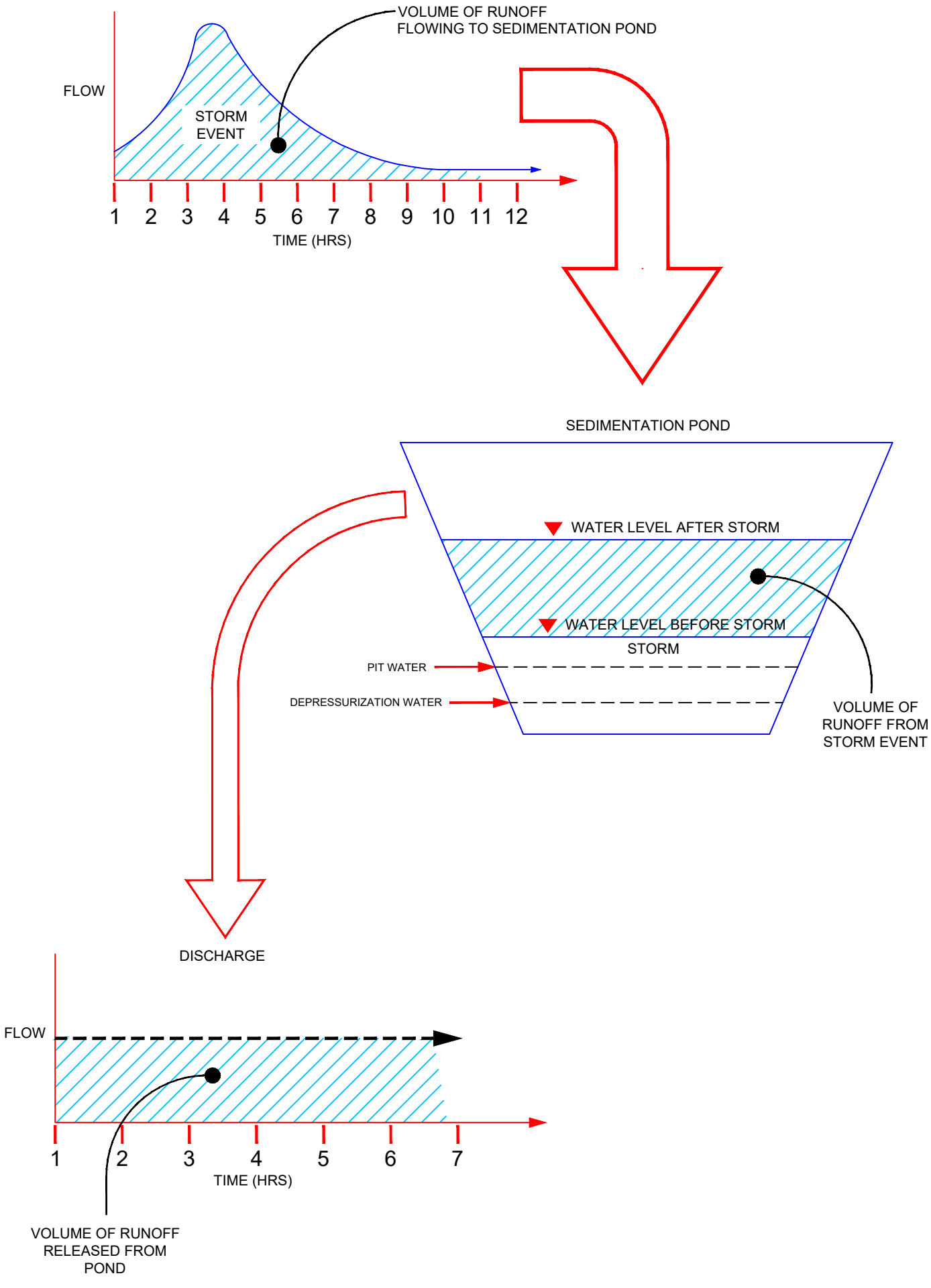
Portions of the mine are located within the 100-year floodplain, but the mining nature of the operation does not provide protection from rainfall inundation. Storm water retention impoundments are located throughout the site to collect stormwater and minimize inundation during storm events. The top berm elevation of sedimentation ponds is above the 100-year floodplain elevation.

ATTACHMENT J

SAN MIGUEL ELECTRICAL COOPERATIVE, INC.

SAN MIGUEL LIGNITE MINE
FLOW SCHEMATIC




VOLUME OF RUNOFF
FLOWING TO SEDIMENTATION POND
FLOW
STORM
EVENT
1 2 3 4 5 6 7 8 9 10 11 12
TIME (HRS)
SEDIMENTATION POND
WATER LEVEL AFTER STORM
WATER LEVEL BEFORE STORM
STORM
PIT WATER
DEPRESSURIZATION WATER
VOLUME OF
RUNOFF FROM
STORM EVENT
DISCHARGE
FLOW
1 2 3 4 5 6 7
TIME (HRS)
VOLUME OF RUNOFF
RELEASED FROM
POND

Water/Wastewater Sources and Management

A lignite mine is a unique facility compared to other industrial facilities that generate wastewater. The lignite mine contains numerous sedimentation pond facilities that are designed and sized to capture stormwater runoff and other sources of water throughout the mine (the design of these sedimentation ponds is regulated by the Railroad Commission of Texas and the Mine Safety and Health Administration). The SMECI lignite mine currently has 39 outfalls that are designed to release accumulated water from sedimentation ponds. The sedimentation pond capacities generally range from about 10 million gallons to 100 million gallons, designed and sized to capture stormwater runoff.

Since soil and material excavation and movement is the dominant activity at the lignite mine, the primary wastewater concern involves the collection and discharge of stormwater, primarily from disturbed surface areas. Unlike an industrial manufacturing facility, the mine does not involve numerous continuous process operations that generate and discharge process wastewater around the clock. Rather, the majority of wastewater associated with the mine is attributable to stormwater runoff. The constituents present in discharges from sedimentation ponds are generally those associated with native soils in the mine area and shallow groundwater seepage, both of which are influenced by stormwater infiltration.

Additional wastestreams that may be routed to the sedimentation ponds include "pit water" and "depressurization water." Pit water refers to water that collects at the bottom of an open pit where lignite is extracted and typically includes direct precipitation, stormwater runoff, and seepage of shallow groundwater from the sides or bottom of the excavation. Depressurization water is generated from dewatering activities, such as pumping, conducted to remove relatively shallow groundwater in advance of excavation, thereby preventing flooding or instability of pit walls.

While the relative contribution of each water source may vary over time and across individual outfalls, discharges typically consist of a combination of stormwater, pit water, and depressurization water. In most cases, it is storm events that trigger the need to discharge from the sedimentation ponds, either due to direct runoff or the accumulation of water that may include pit and depressurization sources. Although stormwater runoff generally represents the largest portion of the discharge volume, the specific composition of any given discharge event may include varying proportions of pit or depressurization water depending on site conditions.

Intermittent Discharges

Discharges from the sedimentation pond outfalls at the lignite mine are intermittent in nature and do not occur on a continuous basis. The TCEQ's instructions for the industrial permit application define a continuous discharge as one that occurs without interruption throughout the operating hours of the facility, except for infrequent shutdowns due to maintenance, process changes, or similar activities. This definition clearly does not apply to mining operations. The lignite mine does not generate process wastewater in the same manner as traditional industrial manufacturing facilities. Instead, discharges from the mine's sedimentation ponds typically result from storm events that generate significant volumes of runoff or, in some cases, from ongoing excavation activities that require depressurization of the area.

In general, discharges are driven primarily by precipitation events. The sedimentation ponds are designed to capture stormwater runoff and discharge when necessary to maintain adequate pond capacity. The mine is located in a relatively arid region; as a result, discharges from the sedimentation pond network are infrequent and predominantly stormwater-driven. However, not all discharges are exclusively the result of stormwater. For example, if depressurization activities generate substantial volumes of shallow groundwater that are routed to a sedimentation pond, this may reduce available capacity and necessitate a discharge to maintain proper function. Nevertheless, such discharges remain intermittent and are typically tied to operational or weather-driven needs rather than continuous flow.

From a practical standpoint, once a need to discharge from a particular outfall is identified, often following a rainfall event, the discharge may continue over a period of several days until the pond reaches its target operating capacity. In certain circumstances, such as the forecast of a major storm or tropical system, preemptive discharges may also be initiated to ensure sufficient storage capacity for expected inflows.

The TCEQ has long recognized the intermittent nature of discharges from mining outfalls. The agency's Standard Operating Procedures Manual (2012) states: "As of July 2012, mining outfalls that discharge on an intermittent and variable basis are typically assessed as a Menu 1," referring to the TEXTOX evaluation method. This reflects the agency's acknowledgment that mining discharges are characterized by irregular, non-continuous flows that are dependent on weather patterns and site-specific operational needs.

<u>One Outfall has a Unique Circumstance</u>

Two final mining pits located in Area A of the mine have accumulated significant volumes of water due to stormwater runoff and subsurface seepage. To address this, SMECI is currently dewatering the pits through discharges from Outfall 012, which is associated with Pond 7. This represents a unique and localized circumstance within the mine's overall operations.

Groundwater is pumped to Pond 7 to reduce electrical conductivity levels prior to discharge, in accordance with requirements established by the Railroad Commission of Texas. Although discharges from Outfall 012 remain intermittent, they occur more frequently than discharges from other sedimentation ponds across the site, which are primarily driven by episodic stormwater runoff.

The discharge of seepage and stormwater from this pit area has been authorized and reported in accordance with the current TPDES permit. This site-specific condition was discussed with the TCEQ in 2018, and the agency was notified of the proposed approach. TCEQ acknowledged the temporary nature of this discharge activity and the localized circumstances in Area A. Discharge Monitoring Reports (DMRs) for Outfall 012 have been submitted as required by the permit.

Once the accumulated water in the two pits has been removed, the pits will be backfilled and reclaimed to approximate pre-mining topography.

ATTACHMENT K

Impoundment Information (With Outfalls)

Parameter	Pond # 3	Pond # 13E	Pond # A	Pond # B	Pond # D	Pond # E	Pond # 23B	Pond # 36C
Use Designation: (T) (D) (C) or (E)	T, C	T, C	T, C	T, C	T, C	T, C	T, C	T, C
Associated Outfall Number	001	002	003	004	005	006	007	008
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	2	2	2	2	2	2	2	2
Surface Area (acres)								
Storage Capacity (gallons)	33.7 MG	28.6 MG	1.2 MG	18.1 MG	4.2 MG	8.0 MG	94.7 MG	15.7 MG
40 CFR Part 257, Subpart D, Y/N	N	N	N	N	N	N	N	N
Date of Construction								

Parameter	Pond # 17B	Pond # 18B	Pond # 6	Pond # 7	Pond # 9B	Pond # 10	Pond # 11	Pond # H
Use Designation: (T) (D) (C) or (E)	T, C	T, C	T, C	T, C	T, C	T, C	T, C	T, C
Associated Outfall Number	009	010	011	012	013	014	015	016
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	2	2	2	2	2	2	2	2
Surface Area (acres)								
Storage Capacity (gallons)	35.2 MG	10.0 MG	25.9 MG	69.4 MG	125.6 MG	116.8 MG	116.8 MG	3.6 MG
40 CFR Part 257, Subpart D, Y/N	N	N	N	N	N	N	N	N
Date of Construction								

Parameter	Pond # I	Pond # J	Pond # 9B	Pond # 19B	Pond # 20B	Pond # 21B	Pond # 22B	Pond # 2
Use Designation: (T) (D) (C) or (E)	T, C	T, C	T, C	T, C	T, C	T, C	T, C	T, C
Associated Outfall Number	017	018	019	020	021	022	023	024
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	2	2	2	2	2	2	2	2
Surface Area (acres)								
Storage Capacity (gallons)	1.1 MG	0.8 MG	125.6 MG	53.3 MG	36.8 MG	80.9 MG	46.0 MG	43.3 MG
40 CFR Part 257, Subpart D, Y/N	N	N	N	N	N	N	N	N
Date of Construction								

Parameter	Pond # 5	Pond # F	Pond # G	Pond # K	Pond # 29C	Pond # 38C	Pond # 37C	Pond # 30C
Use Designation: (T) (D) (C) or (E)	T, C	T, C	T, C	T, C	T, C	T, C	T, C	T, C
Associated Outfall Number	025	026	027	028	029	030	031	032
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	2	2	2	2	2	2	2	2
Surface Area (acres)								
Storage Capacity (gallons)	66.8 MG	2.6 MG	2.7 MG	2.3 MG	1.0 MG	13.5 MG	81.3 MG	33.5 MG
40 CFR Part 257, Subpart D, Y/N	N	N	N	N	N	N	N	N
Date of Construction								

Parameter	Pond # 35C	Pond # 31C	Pond # 15E	Pond # F-1	Pond # G-1	Pond # G-2	Pond # H-1	Pond # C
Use Designation: (T) (D) (C) or (E)	T, C	T, C	T, C	T, C	T, C	T, C	T, C	C, E
Associated Outfall Number	033	034	050	051	052	053	054	N/A
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	I
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard				16	12	15	13	
Freeboard (ft)	2	2	2	1	1	1	1	2
Surface Area (acres)				13.7	8.4	12.3	16.3	3.24
Storage Capacity (gallons)	138.3 MG	31.1 MG	536.2 MG	60.3 MG	27.6 MG	49.1 MG	76.2 MG	9.97
40 CFR Part 257, Subpart D, Y/N	N	N	N	N	N	N	N	N
Date of Construction								

Miscellaneous Impoundment Information (No Outfalls)

Parameter	Pond # O	Pond # 12E	Wetland # E1	Pond P-12-1	Pond # A1	Pond # 1	Pond # 25A	Pond # 26A
Use Designation: (T) (D) (C) or (E)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Associated Outfall Number	none	none	none	none	none	none	none	none
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard	9.5							
Freeboard (ft)	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surface Area (acres)	0.7	3.0	4.5	2.3	0.9	122.5	4.1	7.7
Storage Capacity (gallons)	1.4 MG	21.4 MG	1.2 MG	3.6 MG	1.7 MG	297.5 MG	7.9 MG	18.8 MG
40 CFR Part 257, Subpart D, Y/N								
Date of Construction								

Parameter	Wetland # AW-1	Pond # A-2	Pond # L	Pond # B1	Pond # 14B	Pond # M	Homestead Pond	Pupil Pond
Use Designation: (T) (D) (C) or (E)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Associated Outfall Number	none	none	none	none	none	none	none	none
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surface Area (acres)	1.3	2.1	1	3.8	5.3	5.5	7.6	1.5
Storage Capacity (gallons)	1.6 MG	4.3 MG	2.2 MG	14.2 MG	19.6 MG	5.4 MG	18.0 MG	3.6 MG
40 CFR Part 257, Subpart D, Y/N								
Date of Construction								

Parameter	Dos Rios Pond	Achilles Pond	Alligator Pond	Pond # 27B	Bean Pond	Porkchop Pond	Bull Trap Pond 1	Bull Trap Pond 2
Use Designation: (T) (D) (C) or (E)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Associated Outfall Number	none	none	none	none	none	none	none	none
Liner Type (C) (I) (S) or (A)	none	none	none	none	none	none	none	none
Alt. Liner Attachment Reference	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Leak Detection System, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Wells, Y/N	N	N	N	N	N	N	N	N
Groundwater Monitoring Data Attachment	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y	Y	Y	Y	Y	Y
Length (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Width (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surface Area (acres)	1.6	2.0	5.9	2.1	0.8	3.2	2.8	3.6
Storage Capacity (gallons)	3.0 MG	2.5 MG	18.2 MG	19.4 MG	1.2 MG	5.9 MG	6.3 MG	6.5 MG
40 CFR Part 257, Subpart D, Y/N								
Date of Construction								

Parameter	Mare Pond 1	Bull Trap Endlake 1	Bull Trap Endlake 2					
Use Designation: (T) (D) (C) or (E)	N/A	N/A	N/A					
Associated Outfall Number	none	none	none					
Liner Type (C) (I) (S) or (A)	none	none	none					
Alt. Liner Attachment Reference	N/A	N/A	N/A					
Leak Detection System, Y/N	N	N	N					
Groundwater Monitoring Wells, Y/N	N	N	N					
Groundwater Monitoring Data Attachment	N/A	N/A	N/A					
Pond Bottom Located Above The Seasonal High-Water Table, Y/N	Y	Y	Y					
Length (ft)	N/A	N/A	N/A					
Width (ft)	N/A	N/A	N/A					
Max Depth From Water Surface (ft), Not Including Freeboard								
Freeboard (ft)	N/A	N/A	N/A					
Surface Area (acres)	3.7	13.7	14.2					
Storage Capacity (gallons)	5.7 MG	50.1 MG	60.2 MG					
40 CFR Part 257, Subpart D, Y/N								
Date of Construction								

ATTACHMENT L

Outfall/Disposal Method Information

Outfall Number	Latidtude - decimal	Longitude - decimal	Location (Final Discharge Pond)	Sampling Point	Permitted Daily Avg Flow (MGD)	Permitted Daily Max Flow (MGD)	Discharge Method	Discharge Msmt Device	Discharge Continuous or Intermittent	Discharge Seasonal	Discharge Duration (hrs/day)	Discharge Duration (days/mo)	Discharge Duration (mo/yr)
001	28.69	-98.49	3	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
002	28.68	-98.49	13E	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
003	28.68	-98.48	A	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
004	28.68	-98.48	B	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
005	28.69	-98.48	D	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
006	28.69	-98.47	E	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
007	28.71	-98.38	23B	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
008	28.75	-98.35	36C	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
009	28.75	-98.4	17B	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
010	28.75	-98.39	18B	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
011	28.71	-98.44	6	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
012	28.71	-98.43	7	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
013	28.72	-98.4	9B	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
014	28.71	-98.41	10	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
015	28.71	-98.41	11	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
016	28.71	-98.44	H	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
017	28.71	-98.6	I	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
018	28.71	-98.43	J	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
019	28.72	-98.41	9B	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
020	28.75	-98.37	19B	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
021	28.75	-98.36	20B	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
022	28.73	-98.36	21B	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
023	28.72	-98.36	22B	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
024	28.69	-98.46	2	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
025	28.69	-98.46	5	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
026	28.69	-98.47	F	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
027	28.7	-98.46	G	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
028	28.7	-98.48	K	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
029	28.78	-98.36	29C	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
030	28.77	-98.37	38C	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
031	28.76	-98.36	37C	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
032	28.8	-98.34	30C	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
033	28.76	-98.32	35C	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
034	28.79	-98.33	31C	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
050	28.63	-98.51	15E	same	report only	report only	gravity	estimate	intermittent	no	variable	variable	variable
051	28.61	-98.51	F-1	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
052	28.62	-98.51	G-1	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
053	28.6	-98.53	G-2	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable
054	28.59	-98.53	H-1	same	report only	report only	pumped	estimate	intermittent	no	variable	variable	variable

ATTACHMENT M

Lignite mining involves disturbance of active mining areas for excavation of lignite. Stormwater runoff occurs whenever rainfall occurs. Stormwater in the mining area is routed to various mine sedimentation ponds. In the mine sedimentation ponds, the stormwater is commingled with mine pit water and mine depressurization water. The water stored in the ponds is either used for dust suppression on haul roads or it is eventually discharged.

ATTACHMENT N

P.O. Box 280, Jourdanton, Texas 78026 (830) 784-3411

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

May 8, 2021

Texas Commission on Environmental Quality
Wastewater Permitting Section (MC-148)
Water Quality Division
P.O. Box 13087
Austin, Texas 78711-3087

Texas Commission on Environmental Quality
Attn: Lynn Bumguardner
Region 13
14250 Judson Rd.
San Antonio, 78233-4480

RE: San Miguel Lignite Mine, TPDES Permit No. WQ0002043000
Attachment 1 Analytical Testing Results
Outfalls: 016M, 018M, 027M, 032M & 034M

To Whom It May Concern:

Enclosed are tables compiling the analytical results from two separate sampling events for the Outfalls listed above, as required in Other Requirements, Section 19 of the TPDES Permit.

Please call me at (830) 784-3408 if you have any questions or need additional information.

Sincerely,

Joe Harris
Reclamation Supervisor

Attachments

cc: Reader File

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 016

Attachment 1 Sampling Results			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 016 C ○ G ○ ✖	**Effluent Concentration (mg/L)**		
Pollutant	**3/25/2020**	**9/14/2020**	**Average**
Flow (MGD)	1.4	1.4	1.4
BOD (5-day)	2.46	3.46	2.96
CBOD (5-day)	2.27	3.44	2.86
Chemical Oxygen Demand	13.4	29.9	21.65
Total Organic Carbon	9.58	4.6	7.09
Dissolved Oxygen	9.45	9.05	9.25
Ammonia Nitrogen	1.12	1.12	1.12
Total Suspended Solids	3.44	21.9	12.67
Nitrate Nitrogen	0.26	<0.10	0.26
Total Organic Nitrogen	<1.00	1.68	1.68
Total Phosphorus	1.98	4.89	3.44
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	<0.01	<0.01
Total Dissolved Solids	1450	531	990.5
Sulfate	763	215	489
Chloride	128	33.6	80.8
Fluoride	0.401	<0.020	0.401
Total Alkalinity (mg/L asCaCO3)	76	36	56
Temperature (°F)	73.4	82.8	78.1
pH (Standard Units; min/max)	6.22	6.45	6.34

Table 2 – Metals			
Outfall No.: 016 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**3/25/2020**	**9/14/2020**	**Average**
Aluminum, Total	130	184	157
Antimony, Total	<5	<10	<7.5
Arsenic, Total	7	4	5.5
Barium, Total	38	33	35.5
Beryllium, Total	<0.5	<1	<0.75
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<5	<4
Chromium, Hexavalent	<10	<10	<10
Chromium, Trivalent	<10.0	<10.0	<10.0
Copper, Total	2	1	1.5
Cyanide, Free	<10	<20	<15
Lead, Total	<0.5	<1	<0.75
Mercury, Total	0.009	0.011	0.010
Nickel, Total	3	1	2
Selenium, Total	<5	1	3
Silver, Total	<0.5	<1	<0.75
Thallium, Total	<0.5	<5	<2.75
Zinc, Total	10	10	10

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 016

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 016 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**3/25/2020**	**9/14/2020**	**Average**
Acrolein		<1	<1
Acrylonitrile	<5	<5	<5
Anthracene	<1.97	<2.00	<1.99
Benzene	<5	<5	<5
Benzidine	<4.91	<2.00	<4.96
Benzo(a)anthracene	<1.97	<2.00	<1.99
Benzo(a)pyrene	<1.97	<2.00	<1.99
Bis(2-chloroethyl)ether	<1.97	<2.00	<1.99
Bis(2-ethylhexyl) phthalate	<1.97	<2.00	<1.99
Bromodichloromethane	<5	<5	<5
Bromoform	<5	<5	<5
Carbon Tetrachloride	<2	<2	<2
Chlorobenzene	<5	<5	<5
Chlorodibromomethane	<5	<5	<5
Chloroform	<5	<5	<5
Chrysene	<1.97	<2.00	<1.99
Cresols	<1.97	<2.00	<1.99
1,2-Dibromoethane	<5	<5	<5
m-Dichlorobenzene	<5	<5	<5
o-Dichlorobenzene	<5	<5	<5
p-Dichlorobenzene	<5	<5	<5
3,3'-Dichlorobenzidine	<1.97	<2.00	<1.99
1,2-Dichloroethane	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5
Dichloromethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
1,3-Dichloropropylene	<5	<5	<5
2,4-Dimethylphenol	<1.97	<2.00	<1.99
Di-n-Butyl Phthalate	<3.93	<3.99	<3.96
Epichlorohydrin		<20.0	<20.0
Ethylbenzene	<5	<5	<5
Ethylene Glycol		<50.0	<50.0
Fluoride	401	<20	211
Hexachlorobenzene	<1.97	<2.00	<1.99
Hexachlorobutadiene	<1.97	<2.00	<1.99
Hexachlorocyclopentadiene	<1.97	<2.00	<1.99
Hexachloroethane	<1.97	<2.00	<1.99
4,4'-Isopropylidenediphenol [bisphenol A]		<9.99	<9.99
Methyl Ethyl Ketone	<5	<5	<5
Methyl tert-butyl ether [MTBE]	<5	<5	<5
Nitrobenzene	<1.97	<2.00	<1.99
N-Nitrosodiethylamine	<1.97	<2.00	<1.99
N-Nitroso-di-n-Butylamine	<1.97	<2.00	<1.99
Nonylphenol	<68.8	<69.9	<69.9
Pentachlorobenzene	<1.97	<2.00	<1.99
Pentachlorophenol	<1.97	<2.00	<1.99
Phenanthrene	<1.97	<2.00	<1.99
Polychlorinated Biphenyls (PCBs) 3	<0.10	<1.00	<0.55
Pyridine	<3.93	<3.99	<3.96

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 016

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 016 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**3/25/2020**	**9/14/2020**	**Average**
1,2,4,5-Tetrachlorobenzene	<1.97	<2.00	<1.99
1,1,2,2-Tetrachloroethane	<5	<5	<5
Tetrachloroethylene	<5	<5	<5
Toluene	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
Trichloroethylene	<5	<5	<5
2,4,5-Trichlorophenol	<1.97	<2.00	<1.99
TTHM (Total Trihalomethanes)	<40	<20	<30
Vinyl Chloride	<5	<5	<5

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 018

Attachment 1 Sampling Results			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 018 C ○ G ○ ✖	**Effluent Concentration (mg/L)**		
Pollutant	**3/25/2020**	**9/22/2020**	**Average**
Flow (MGD)	0.58	0.58	0.58
BOD (5-day)	<2.00	4.19	3.10
CBOD (5-day)	<2.00	2.66	2.33
Chemical Oxygen Demand	17.5	23.4	20.45
Total Organic Carbon	6.4	7.22	6.81
Dissolved Oxygen	9.27	9	9.135
Ammonia Nitrogen	1.12	1.12	1.12
Total Suspended Solids	2.75	<2.50	2.64
Nitrate Nitrogen	0.36	0.24	0.3
Total Organic Nitrogen	1.08	<1.00	1.04
Total Phosphorus	1.66	3.52	2.59
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	<0.01	<0.01
Total Dissolved Solids	989	753	871
Sulfate	478	370	424
Chloride	81.3	71.2	76.25
Fluoride	<0.020	<0.020	<0.020
Total Alkalinity (mg/L asCaCO3)	44	52	48
Temperature (°F)	76.3	75	75.65
pH (Standard Units; min/max)	6.1	6.49	6.30

Table 2 – Metals			
Outfall No.: 018 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**3/25/2020**	**9/22/2020**	**Average**
Aluminum, Total	54	171	112.5
Antimony, Total	<5	<5	<5
Arsenic, Total	3	5	4
Barium, Total	37	36	36.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent	<10	6	<8
Chromium, Trivalent	<10.0	<3.00	<6.50
Copper, Total	3	2	2.5
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	0.007	0.026	0.017
Nickel, Total	3	3	3
Selenium, Total	<5	<5	<5
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	12	16	14

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 018

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 018 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**3/25/2020**	**9/22/2020**	**Average**
Acrolein		<1	<1
Acrylonitrile	<5	<5	<5
Anthracene	<1.98	<1.97	<1.98
Benzene	<5	<5	<5
Benzidine	<4.94	<4.93	<4.94
Benzo(a)anthracene	<1.98	<1.97	<1.98
Benzo(a)pyrene	<1.98	<1.97	<1.98
Bis(2-chloroethyl)ether	<1.98	<1.97	<1.98
Bis(2-ethylhexyl) phthalate	<1.98	<1.97	<1.98
Bromodichloromethane	<5	<5	<5
Bromoform	<5	<5	<5
Carbon Tetrachloride	<2	<2	<5
Chlorobenzene	<5	<5	<5
Chlorodibromomethane	<5	<5	<5
Chloroform	<5	<5	<5
Chrysene	<1.98	<1.97	<1.98
Cresols	<1.98	<1.97	<1.98
1,2-Dibromoethane	<5	<5	<5
m-Dichlorobenzene	<5	<5	<5
o-Dichlorobenzene	<5	<5	<5
p-Dichlorobenzene	<5	<5	<5
3,3'-Dichlorobenzidine	<1.98	<1.97	<1.98
1,2-Dichloroethane	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5
Dichloromethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
1,3-Dichloropropylene	<5	<5	<5
2,4-Dimethylphenol	<1.98	<1.97	<1.98
Di-n-Butyl Phthalate	<3.95	<3.94	<3.95
Epichlorohydrin		<5.00	<5.00
Ethylbenzene	<5	<5	<5
Ethylene Glycol		<50.0	<50.0
Fluoride	<20	<20	<20
Hexachlorobenzene	<1.98	<1.97	<1.98
Hexachlorobutadiene	<1.98	<1.97	<1.98
Hexachlorocyclopentadiene	<1.98	<1.97	<1.98
Hexachloroethane	<1.98	<1.97	<1.98
4,4'-Isopropylidenediphenol [bisphenol A]		<9.62	<9.62
Methyl Ethyl Ketone	<5	<5	<5
Methyl tert-butyl ether [MTBE]	<5	<5	<5
Nitrobenzene	<1.98	<1.97	<1.98
N-Nitrosodiethylamine	<1.98	<1.97	<1.98
N-Nitroso-di-n-Butylamine	<1.98	<1.97	<1.98
Nonylphenol	<69.2	<69.0	<69.1
Pentachlorobenzene	<1.98	<1.97	<1.98
Pentachlorophenol	<1.98	<1.97	<1.98
Phenanthrene	<1.98	<1.97	<1.98
Polychlorinated Biphenyls (PCBs) 3	<0.10	<0.10	<0.10
Pyridine	<3.95	<3.94	<3.95

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 018

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 018 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**3/25/2020**	**9/22/2020**	**Average**
1,2,4,5-Tetrachlorobenzene	<1.98	<1.97	<1.98
1,1,2,2-Tetrachloroethane	<5	<5	<5
Tetrachloroethylene	<5	<5	<5
Toluene	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
Trichloroethylene	<5	<5	<5
2,4,5-Trichlorophenol	<1.98	<1.97	<1.98
TTHM (Total Trihalomethanes)	<40	<40	<40
Vinyl Chloride	<5	<5	<5

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 027

Attachment 1 Sampling Results			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 027 C ○ G ○ ✖	**Effluent Concentration (mg/L)**		
Pollutant	**6/10/2020**	**9/22/2020**	**Average**
Flow (MGD)	0.58	0.58	0.58
BOD (5-day)	25.1	2.13	13.62
CBOD (5-day)	50.4	2.09	26.25
Chemical Oxygen Demand	22.7	31.3	27
Total Organic Carbon	9.68	6.11	7.895
Dissolved Oxygen	9.25	8.55	8.9
Ammonia Nitrogen	1.12	1.68	1.4
Total Suspended Solids	114	69	92
Nitrate Nitrogen	<0.10	<0.10	<0.10
Total Organic Nitrogen	<1.00	<1.00	<1.00
Total Phosphorus	0.24	3.12	1.68
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	0.03	0.02
Total Dissolved Solids	1120	592	856
Sulfate	452	251	351.5
Chloride	76.7	39.8	58.25
Fluoride	<0.500	<0.020	<0.260
Total Alkalinity (mg/L asCaCO3)	152	96	124
Temperature (°F)	81.7	73	77.35
pH (Standard Units; min/max)	6.63	6.29	6.46

Table 2 – Metals			
Outfall No.: 027 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/22/2020**	**Average**
Aluminum, Total	294	718	506
Antimony, Total	<5	<5	<5
Arsenic, Total	14	11	12.5
Barium, Total	54	57	55.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent	<3	<3	<3
Chromium, Trivalent	<3.00	<3.00	<3.00
Copper, Total	<2	15	8.5
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	0.016	0.01	0.013
Nickel, Total	5	4	4.5
Selenium, Total	<5	<5	<5
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	83	22	52.5

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 027

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 027 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/22/2020**	**Average**
Acrolein		<1	<1
Acrylonitrile	<5	<5	<5
Anthracene	<1.98	<1.98	<1.98
Benzene	<5	<5	<5
Benzidine	<4.94	<4.96	<4.95
Benzo(a)anthracene	<1.98	<1.98	<1.98
Benzo(a)pyrene	<1.98	<1.98	<1.98
Bis(2-chloroethyl)ether	<1.98	<1.98	<1.98
Bis(2-ethylhexyl) phthalate	<1.98	<1.98	<1.98
Bromodichloromethane	<5	<5	<5
Bromoform	<5	<5	<5
Carbon Tetrachloride	<2	<2	<2
Chlorobenzene	<5	<5	<5
Chlorodibromomethane	<5	<5	<5
Chloroform	<5	<5	<5
Chrysene	<1.98	<1.98	<1.98
Cresols	<1.98	<1.98	<1.98
1,2-Dibromoethane	<5	<5	<5
m-Dichlorobenzene	<5	<5	<5
o-Dichlorobenzene	<5	<5	<5
p-Dichlorobenzene	<5	<5	<5
3,3'-Dichlorobenzidine	<1.98	<1.98	<1.98
1,2-Dichloroethane	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5
Dichloromethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
1,3-Dichloropropylene	<5	<5	<5
2,4-Dimethylphenol	<1.98	<1.98	<1.98
Di-n-Butyl Phthalate	<3.95	<3.97	<3.96
Epichlorohydrin		<5.00	<5.00
Ethylbenzene	<5	<5	<5
Ethylene Glycol		<50.0	<50.0
Fluoride	<500	<20	<260
Hexachlorobenzene	<1.98	<1.98	<1.98
Hexachlorobutadiene	<1.98	<1.98	<1.98
Hexachlorocyclopentadiene	<1.98	<1.98	<1.98
Hexachloroethane	<1.98	<1.98	<1.98
4,4′-Isopropylidenediphenol [bisphenol A]		<9.69	<9.69
Methyl Ethyl Ketone	<5	<5	<5
Methyl tert-butyl ether [MTBE]	<5	<5	<5
Nitrobenzene	<1.98	<1.98	<1.98
N-Nitrosodiethylamine	<1.98	<1.98	<1.98
N-Nitroso-di-n-Butylamine	<1.98	<1.98	<1.98
Nonylphenol	<69.2	<69.4	<69.3
Pentachlorobenzene	<1.98	<1.98	<1.98
Pentachlorophenol	<1.98	<1.98	<1.98
Phenanthrene	<1.98	<1.98	<1.98
Polychlorinated Biphenyls (PCBs) 3	<0.10	<0.10	<0.10
Pyridine	<3.95	<3.97	<3.96

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 027 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/22/2020**	**Average**
1,2,4,5-Tetrachlorobenzene	<1.98	<1.98	<1.98
1,1,2,2-Tetrachloroethane	<5	<5	<5
Tetrachloroethylene	<5	<5	<5
Toluene	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
Trichloroethylene	<5	<5	<5
2,4,5-Trichlorophenol	<1.98	<1.98	<1.98
TTHM (Total Trihalomethanes)	<10.0	<40	<25
Vinyl Chloride	<5	<5	<5

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 032

Attachment 1 Sampling Results			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 032 C ○ G ○ ✖	**Effluent Concentration (mg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
Flow (MGD)	8.4	8.4	8.4
BOD (5-day)	15.9	2.98	9.44
CBOD (5-day)	2.16	3.48	2.82
Chemical Oxygen Demand	15.1	39.2	27.15
Total Organic Carbon	8.32	3.4	5.86
Dissolved Oxygen	10.1	9.38	9.74
Ammonia Nitrogen	1.12	1.12	1.12
Total Suspended Solids	145	275	210
Nitrate Nitrogen	0.37	<0.10	0.24
Total Organic Nitrogen	2.24	1.12	1.68
Total Phosphorus	1.42	5.67	3.55
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	<0.01	<0.01
Total Dissolved Solids	519	410	464.5
Sulfate	108	30.8	69.4
Chloride	17.3	8.79	13.045
Fluoride	<0.500	0.213	0.357
Total Alkalinity (mg/L asCaCO3)	84	80	82
Temperature (°F)	82.2	82.8	82.5
pH (Standard Units; min/max)	7.05	6.91	6.98

Table 2 – Metals			
Outfall No.: 032 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
Aluminum, Total	1130	4070	2600
Antimony, Total	<5	<10	<7.5
Arsenic, Total	9	8	8.5
Barium, Total	109	118	113.5
Beryllium, Total	0.7	<1	0.85
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<5	<4
Chromium, Hexavalent	<3	<10	<6.5
Chromium, Trivalent	<3.00	<10.0	<6.5
Copper, Total	<2	6	4
Cyanide, Free	<10	<20	<15
Lead, Total	5	5	5
Mercury, Total	0.021	0.023	0.022
Nickel, Total	3	3	3
Selenium, Total	<5	<1	<3
Silver, Total	<0.5	<1	<0.75
Thallium, Total	<0.5	<0.5	<2.75
Zinc, Total	18	28	23

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 032

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 032 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
Acrolein		<1	<1
Acrylonitrile	<5	<5	<5
Anthracene	<1.97	<2.00	<1.99
Benzene	<5	<5	<5
Benzidine	<4.93	<5.00	<4.97
Benzo(a)anthracene	<1.97	<2.00	<1.99
Benzo(a)pyrene	<1.97	<2.00	<1.99
Bis(2-chloroethyl)ether	<1.97	<2.00	<1.99
Bis(2-ethylhexyl) phthalate	<1.97	2.82	2.4
Bromodichloromethane	<5	<5	<5
Bromoform	<5	<5	<5
Carbon Tetrachloride	<2	<2	<2
Chlorobenzene	<5	<5	<5
Chlorodibromomethane	<5	<5	<5
Chloroform	<5	<5	<5
Chrysene	<1.97	<2.00	<1.99
Cresols	<1.97	<2.00	<1.99
1,2-Dibromoethane	<5	<5	<5
m-Dichlorobenzene	<5	<5	<5
o-Dichlorobenzene	<5	<5	<5
p-Dichlorobenzene	<5	<5	<5
3,3'-Dichlorobenzidine	<1.97	<2.00	<1.99
1,2-Dichloroethane	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5
Dichloromethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
1,3-Dichloropropylene	<5	<5	<5
2,4-Dimethylphenol	<1.97	<2.00	<1.99
Di-n-Butyl Phthalate	<3.94	<4.00	<3.97
Epichlorohydrin		<20.00	<20.00
Ethylbenzene	<5	<5	<5
Ethylene Glycol		<50.0	<50.0
Fluoride	<500	213	357
Hexachlorobenzene	<1.97	<2.00	<1.99
Hexachlorobutadiene	<1.97	<2.00	<1.99
Hexachlorocyclopentadiene	<1.97	<2.00	<1.99
Hexachloroethane	<1.97	<2.00	<1.99
4,4'-Isopropylidenediphenol [bisphenol A]		<9.73	<9.73
Methyl Ethyl Ketone	<5	<5	<5
Methyl tert-butyl ether [MTBE]	<5	<5	<5
Nitrobenzene	<1.97	<2.00	<1.99
N-Nitrosodiethylamine	<1.97	<2.00	<1.99
N-Nitroso-di-n-Butylamine	<1.97	<2.00	<1.99
Nonylphenol	<69.0	<70.0	<70.0
Pentachlorobenzene	<1.97	<2.00	<1.99
Pentachlorophenol	<1.97	<2.00	<1.99
Phenanthrene	<1.97	<2.00	<1.99
Polychlorinated Biphenyls (PCBs) 3	<0.10	<1.00	<0.55
Pyridine	<3.94	<4.00	<3.97

OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 032

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 032 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
1,2,4,5-Tetrachlorobenzene	<1.97	<2.00	<1.99
1,1,2,2-Tetrachloroethane	<5	<5	<5
Tetrachloroethylene	<5	<5	<5
Toluene	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
Trichloroethylene	<5	<5	<5
2,4,5-Trichlorophenol	<1.97	<2.00	<1.99
TTHM (Total Trihalomethanes)	<10.0	<20	<15
Vinyl Chloride	<5	<5	<5

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 034

Attachment 1 Sampling Results			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 034 C ○ G ○ ✖	**Effluent Concentration (mg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
Flow (MGD)	1.8	1.8	1.8
BOD (5-day)	26.9	12.8	19.85
CBOD (5-day)	9.38	9.51	9.445
Chemical Oxygen Demand	51	68.5	59.75
Total Organic Carbon	14.8	9.85	12.325
Dissolved Oxygen	8.83	7.74	8.285
Ammonia Nitrogen	1.12	1.12	1.12
Total Suspended Solids	160	81.5	120.75
Nitrate Nitrogen	0.35	<0.10	0.23
Total Organic Nitrogen	4.48	54.9	29.69
Total Phosphorus	2.88	5.02	3.95
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	<0.01	<0.01
Total Dissolved Solids	1110	226	668
Sulfate	43.2	2.17	22.685
Chloride	14.3	2.07	8.185
Fluoride	<0.500	0.275	0.388
Total Alkalinity (mg/L asCaCO3)	88	44	66
Temperature (°F)	84.4	89.8	87.1
pH (Standard Units; min/max)	7	6.78	6.89

Table 2 – Metals			
Outfall No.: 034 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
Aluminum, Total	1240	560	900
Antimony, Total	<5	<10	<7.5
Arsenic, Total	19	10	14.5
Barium, Total	116	45	80.5
Beryllium, Total	2	<1	1.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<5	<4
Chromium, Hexavalent	<3	<10	<6.5
Chromium, Trivalent	<3.00	<10.0	<6.50
Copper, Total	3	1	2
Cyanide, Free	<10	<20	<15
Lead, Total	8	1	4.5
Mercury, Total	0.043	0.012	0.0275
Nickel, Total	3	1	2
Selenium, Total	<5	<1	<3
Silver, Total	<0.5	<1	<0.75
Thallium, Total	<0.5	<5	<2.75
Zinc, Total	16	18	17

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1 2020 Sampling Results - Outfall 034

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 034 C ○ G ○ ✖	Effluent Concentration (µg/L)		
Pollutant	6/10/2020	9/14/2020	Average
Acrolein		<1	<1
Acrylonitrile	<5	<5	<5
Anthracene	<1.98	<1.98	<1.98
Benzene	<5	<5	<5
Benzidine	<4.94	<4.95	<4.95
Benzo(a)anthracene	<1.98	<1.98	<1.98
Benzo(a)pyrene	<1.98	<1.98	<1.98
Bis(2-chloroethyl)ether	<1.98	<1.98	<1.98
Bis(2-ethylhexyl) phthalate	<1.98	2.83	2.41
Bromodichloromethane	<5	<5	<5
Bromoform	<5	<5	<5
Carbon Tetrachloride	<2	<2	<5
Chlorobenzene	<5	<5	<5
Chlorodibromomethane	<5	<5	<5
Chloroform	<5	<5	<5
Chrysene	<1.98	<1.98	<1.98
Cresols	<1.98	<1.98	<1.98
1,2-Dibromoethane	<5	<5	<5
m-Dichlorobenzene	<5	<5	<5
o-Dichlorobenzene	<5	<5	<5
p-Dichlorobenzene	<5	<5	<5
3,3'-Dichlorobenzidine	<1.98	<1.98	<1.98
1,2-Dichloroethane	<5	<5	<5
1,1-Dichloroethylene	<5	<5	<5
Dichloromethane	<5	<5	<5
1,2-Dichloropropane	<5	<5	<5
1,3-Dichloropropylene	<5	<5	<5
2,4-Dimethylphenol	<1.98	<1.98	<1.98
Di-n-Butyl Phthalate	<3.95	<3.96	<3.96
Epichlorohydrin		<20.0	<20.0
Ethylbenzene	<5	<5	<5
Ethylene Glycol		<50.0	<50.0
Fluoride	<500	275	388
Hexachlorobenzene	<1.98	<1.98	<1.98
Hexachlorobutadiene	<1.98	<1.98	<1.98
Hexachlorocyclopentadiene	<1.98	<1.98	<1.98
Hexachloroethane	<1.98	<1.98	<1.98
4,4'-Isopropylidenediphenol [bisphenol A]		<9.70	<9.70
Methyl Ethyl Ketone	<5	<5	<5
Methyl tert-butyl ether [MTBE]	<5	<5	<5
Nitrobenzene	<1.98	<1.98	<1.98
N-Nitrosodiethylamine	<1.98	<1.98	<1.98
N-Nitroso-di-n-Butylamine	<1.98	<1.98	<1.98
Nonylphenol	<69.2	<69.3	<69.3
Pentachlorobenzene	<1.98	<1.98	<1.98
Pentachlorophenol	<1.98	<1.98	<1.98
Phenanthrene	<1.98	<1.98	<1.98
Polychlorinated Biphenyls (PCBs) 3	<0.10	<1.00	<0.55
Pyridine	<3.95	<3.96	<3.96

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 034 C ○ G ○ ✖	**Effluent Concentration (µg/L)**		
Pollutant	**6/10/2020**	**9/14/2020**	**Average**
1,2,4,5-Tetrachlorobenzene	<1.98	<1.98	<1.98
1,1,2,2-Tetrachloroethane	<5	<5	<5
Tetrachloroethylene	<5	<5	<5
Toluene	<5	<5	<5
1,1,1-Trichloroethane	<5	<5	<5
1,1,2-Trichloroethane	<5	<5	<5
Trichloroethylene	<5	<5	<5
2,4,5-Trichlorophenol	<1.98	<1.98	<1.98
TTHM (Total Trihalomethanes)	<10.0	<20	<15
Vinyl Chloride	<5	<5	<5

P.O. Box 280, Jourdanton, Texas 78026 (830) 784-3411

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

November 5, 2021

Texas Commission on Environmental Quality
Wastewater Permitting Section (MC-148)
Water Quality Division
P.O. Box 13087
Austin, Texas 78711-3087

Subject: **San Miguel Lignite Mine,**
TPDES Permit No. WQ0002043000
Attachment 1 Analytical Testing Results
Outfalls: 005M, 022M, & 033M

To Whom It May Concern:

Enclosed are the analytical results from two separate sampling events, for the Outfalls listed above, as required in Other Requirements, Section 19 of the TPDES Permit. Please call me at (830) 784-3408 if you have any questions or need additional information.

Sincerely,

Joe Harris
Reclamation Supervisor

Attachments

cc: Reader File

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 005 - POND D

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 005 C ☐ G [X]	**Effluent Concentration (mg/L)**		
Pollutant	**9/17/2020**	**6/16/2021**	**Average**
Flow (MGD)	1.4	1.4	1.4
BOD (5-day)	3.40	2.80	3.1
CBOD (5-day)	3.68	3.11	3.395
Chemical Oxygen Demand	40.8	19.4	30.1
Total Organic Carbon	6.12	6.40	6.26
Dissolved Oxygen	9.10	10.6	9.85
Ammonia Nitrogen	2.24	<1.00	<1.62
Total Suspended Solids	4.25	12.2	8.225
Nitrate Nitrogen	<0.10	<0.100	<0.10
Total Organic Nitrogen	<1.00	2.80	<1.90
Total Phosphorus	2.90	<0.05	<1.48
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	<0.01	<0.01
Total Dissolved Solids	601	476	538.5
Sulfate	288	260	274
Chloride	42.2	41.9	42.05
Fluoride	<0.020	0.254	<.137
Total Alkalinity (mg/L as $CaCO_3$)	76.0	84.0	80
Temperature (°F)	85.1	89.4	87.25
pH (Standard Units; min/max)	7.24	8.06	7.65

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 005 - POND D

Table 2 – Metals			
Outfall No.: 005 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**9/17/2020**	**6/16/2021**	**Average**
Aluminum, Total	106	122	114
Antimony, Total	<10	<5	<7.5
Arsenic, Total	7	7	7
Barium, Total	42	48	45
Beryllium, Total	<1	<0.5	<0.75
Cadmium, Total	<1	<1	<1
Chromium, Total	<5	<3	<4
Chromium, Hexavalent	<10	<3	<6.5
Chromium, Trivalent	<10.0	<3.00	<6.5
Copper, Total	2	1	1.5
Cyanide, Free	<20	<10	<15
Lead, Total	<1	<0.5	<0.75
Mercury, Total	0.009	0.006	0.0075
Nickel, Total	2	<2	<2
Selenium, Total	1	<0.5	<0.75
Silver, Total	<1	<0.5	<0.75
Thallium, Total	<5	<0.5	<2.75
Zinc, Total	17	12	14.5

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 005 - POND D

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 005 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**9/17/2020**	**6/16/2021**	Average
Acrolein	<1	<20	<10.5
Acrylonitrile	<5	<3	<4
Anthracene	<1.97	<1.98	<1.98
Benzene	<5	<1	<3
Benzidine	<4.92	<4.96	<4.94
Benzo(*a*)anthracene	<1.97	<1.98	<1.98
Benzo(*a*)pyrene	<1.97	<1.98	<1.98
Bis(2-chloroethyl)ether	<1.97	<1.98	<1.98
Bis(2-ethylhexyl) phthalate	<1.97	<1.98	<1.98
Bromodichloromethane	<5	<1	<3
Bromoform	<5	<1	<3
Carbon Tetrachloride	<2	<1	<1.5
Chlorobenzene	<5	<1	<3
Chlorodibromomethane	<5	<1	<3
Chloroform	<5	<1	<3
Chrysene	<1.97	<1.98	<1.98
Cresols	<1.97	<1.98	<1.98
1,2-Dibromoethane	<5	<1	<3
m- Dichlorobenzene	<5	<1	<3
o- Dichlorobenzene	<5	<1	<3
p -Dichlorobenzene	<5	<1	<3
3,3'-Dichlorobenzidine	<1.97	<1.98	<1.98
1,2-Dichloroethane	<5	<1	<3
1,1-Dichloroethylene	<5	<1	<3
Dichloromethane	<5	<2.5	<3.75
1,2-Dichloropropane	<5	<1	<3
1,3-Dichloropropylene	<5	<1	<3
2,4-Dimethylphenol	<1.97	<1.98	<1.98
Di-*n* -Butyl Phthalate	<3.94	<3.97	<3.96
Epichlorohydrin	<20.0	<20	<20
Ethylbenzene	<5	<1	<3
Ethylene Glycol	<50,000	<50,000	<50,000
Fluoride	<20	254	<137
Hexachlorobenzene	<1.97	<1.98	<1.98
Hexachlorobutadiene	<1.97	<1.98	<1.98

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 005 - POND D

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 005 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**9/17/2020**	**6/16/2021**	Average
Hexachlorocyclopentadiene	<1.97	<1.98	<1.98
Hexachloroethane	<1.97	<1.98	<1.98
4,4′-Isopropylidenediphenol [bisphenol A]	<9.78	<9.73	<9.76
Methyl Ethyl Ketone	<5	<15	<10
Methyl *tert*-butyl ether [MTBE]	<5	<1	<3
Nitrobenzene	<1.97	<1.98	<1.98
N-Nitrosodiethylamine	<1.97	<1.98	<1.98
N-Nitroso-di-*n*-Butylamine	<1.97	<1.98	<1.98
Nonylphenol	<68.9	<69.4	<69.2
Pentachlorobenzene	<1.97	<1.98	<1.98
Pentachlorophenol	<1.97	<1.98	<1.98
Phenanthrene	<1.97	<1.98	<1.98
Polychlorinated Biphenyls (PCBs) 2	<1.00	<0.0948	<0.547
Pyridine	<3.94	<3.97	<3.96
1,2,4,5-Tetrachlorobenzene	<1.97	<1.98	<1.98
1,1,2,2-Tetrachloroethane	<5	<1	<3
Tetrachloroethylene	<5	<2	<3.5
Toluene	<5	<2	<3.5
1,1,1-Trichloroethane	<5	<1	<3
1,1,2-Trichloroethane	<5	<1	<3
Trichloroethylene	<5	<1	<3
2,4,5-Trichlorophenol	<1.97	<1.98	<1.98
TTHM (Total Trihalomethanes)	<20	<5	<12.5
Vinyl Chloride	<5	<1	<3

[1] Indicate units if different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 022 - POND 21B

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 022 C ☐ G [X]	Effluent Concentration (mg/L)		
Pollutant	9/22/2020	8/24/2021	Average
Flow (MGD)	1.8	1.8	1.8
BOD (5-day)	2.13	2.65	2.39
CBOD (5-day)	2.65	2.59	2.62
Chemical Oxygen Demand	74.7	31.4	53.1
Total Organic Carbon	4.61	8.53	6.57
Dissolved Oxygen	9.38	8.62	9
Ammonia Nitrogen	1.12	<1.00	<1.06
Total Suspended Solids	8.33	14.9	11.615
Nitrate Nitrogen	<0.10	<0.100	<0.10
Total Organic Nitrogen	<1.00	1.12	<1.06
Total Phosphorus	2.89	<0.05	2.89
Oil and Grease	<5.00	<5.26	<5.13
Total Residual Chlorine	0.15	0.08	0.115
Total Dissolved Solids	8670	2880	5775
Sulfate	1950	877	1413.5
Chloride	3340	980	2160
Fluoride	<0.020	0.311	<0.166
Total Alkalinity (mg/L as $CaCO_3$)	108	64.0	86.0
Temperature (°F)	80.2	73.2	76.71
pH (Standard Units; min/max)	7.25	8.82	8.04

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 022 - POND 21B

Table 2 – Metals			
Outfall No.: 022 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**9/22/2020**	**8/24/2021**	**Average**
Aluminum, Total	95	266	180.5
Antimony, Total	<5	<5	<5
Arsenic, Total	6	5	5.5
Barium, Total	66	14	40
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent	3	<3	<3
Chromium, Trivalent	<3.00	<3.00	<3.00
Copper, Total	3	2	2.5
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	<0.005	<0.005	<0.005
Nickel, Total	10	6	8
Selenium, Total	8	3	5.5
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	0.6	<0.6
Zinc, Total	13	<5	<9

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 022 - POND 21B

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 022 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**9/22/2020**	**8/24/2021**	Average
Acrolein	<1	<20.0	<10.5
Acrylonitrile	<5	<3.00	<4
Anthracene	<1.99	<1.99	<1.99
Benzene	<5	<1.00	<3
Benzidine	<4.98	<4.98	<4.98
Benzo(*a*)anthracene	<1.99	<1.99	<1.99
Benzo(*a*)pyrene	<1.99	<1.99	<1.99
Bis(2-chloroethyl)ether	<1.99	<1.99	<1.99
Bis(2-ethylhexyl) phthalate	<1.99	<1.99	<1.99
Bromodichloromethane	<5	<1.00	<3
Bromoform	<5	<1.00	<3
Carbon Tetrachloride	<2	<1.00	<1.5
Chlorobenzene	<5	<1.00	<3
Chlorodibromomethane	<5	<1.00	<3
Chloroform	<5	<1.00	<3
Chrysene	<1.99	<1.99	<1.99
Cresols	<1.99	<1.99	<1.99
1,2-Dibromoethane	<5	<1.00	<3
m-Dichlorobenzene	<5	<1.00	<3
o-Dichlorobenzene	<5	<1.00	<3
p-Dichlorobenzene	<5	<1.00	<3
3,3'-Dichlorobenzidine	<1.99	<1.99	<1.99
1,2-Dichloroethane	<5	<1.00	<3
1,1-Dichloroethylene	<5	<1.00	<3
Dichloromethane	<5	<2.50	<3.75
1,2-Dichloropropane	<5	<1.00	<3
1,3-Dichloropropylene	<5	<1.00	<3
2,4-Dimethylphenol	<1.99	<1.99	<1.99
Di-*n*-Butyl Phthalate	<3.99	<3.99	<3.99
Epichlorohydrin	<5.00	<20	<12.5
Ethylbenzene	<5	<1.00	<3
Ethylene Glycol	<50,000	<50,000	<50,000
Fluoride	<20	311	<165.5
Hexachlorobenzene	<1.99	<1.99	<1.99
Hexachlorobutadiene	<1.99	<1.99	<1.99

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 022 - POND 21B

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 022 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**9/22/2020**	**8/24/2021**	Average
Hexachlorocyclopentadiene	<1.99	<1.99	<1.99
Hexachloroethane	<1.99	<1.99	<1.99
4,4'-Isopropylidenediphenol [bisphenol A]	<9.78	<9.60	<9.69
Methyl Ethyl Ketone	<5	<15.0	<10
Methyl *tert*-butyl ether [MTBE]	<5	<1.00	<3
Nitrobenzene	<1.99	<1.99	<1.99
N-Nitrosodiethylamine	<1.99	<1.99	<1.99
N-Nitroso-di-*n*-Butylamine	<1.99	<1.99	<1.99
Nonylphenol	<69.8	<69.8	<69.8
Pentachlorobenzene	<1.99	<1.99	<1.99
Pentachlorophenol	<1.99	<1.99	<1.99
Phenanthrene	<1.99	<1.99	<1.99
Polychlorinated Biphenyls (PCBs) 2	<0.10	<0.0979	<0.099
Pyridine	<3.99	<3.99	<3.99
1,2,4,5-Tetrachlorobenzene	<1.99	<1.99	<1.99
1,1,2,2-Tetrachloroethane	<5	<1.00	<3
Tetrachloroethylene	<5	<2.00	<3.5
Toluene	<5	<2.00	<3.5
1,1,1-Trichloroethane	<5	<1.00	<3
1,1,2-Trichloroethane	<5	<1.00	<3
Trichloroethylene	<5	<1.00	<3
2,4,5-Trichlorophenol	<1.99	<1.99	<1.99
TTHM (Total Trihalomethanes)	<40	<5.00	<22.5
Vinyl Chloride	<5	<1.00	<3

1 Indicate units if different than µg/L.

2 Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 033 - POND 35C

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 033 C ☐ G [X]	**Effluent Concentration (mg/L)**		
Pollutant	**7/21/2020**	**10/4/2021**	**Average**
Flow (MGD)	1.8	1.8	1.8
BOD (5-day)	7.53	3.51	5.52
CBOD (5-day)	5.77	3.37	4.57
Chemical Oxygen Demand	119.0	31.0	75.0
Total Organic Carbon	20.3	8.02	14.16
Dissolved Oxygen	9.03	8.01	8.52
Ammonia Nitrogen	<1.00	<1.00	<1.00
Total Suspended Solids	50.0	10.9	30.45
Nitrate Nitrogen	<0.10	<0.100	<0.10
Total Organic Nitrogen	<1.00	2.8	<1.9
Total Phosphorus	1.68	0.11	0.895
Oil and Grease	<5.00	<5.00	<5.00
Total Residual Chlorine	<0.01	0.27	<0.14
Total Dissolved Solids	5820	496	3158
Sulfate	2440	7780	5110
Chloride	1980	143	1061.5
Fluoride	<0.020	<0.020	<0.020
Total Alkalinity (mg/L as $CaCO_3$)	84.0	76.0	80.0
Temperature (°F)	91.6	80.6	86.1
pH (Standard Units; min/max)	8.75	7.10	7.93

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 033 - POND 35C

Table 2 – Metals			
Outfall No.: 033 C ☐ G [X]	**Effluent Concentration (µg/L)[1]**		
Pollutant	**7/21/2020**	**10/4/2021**	**Average**
Aluminum, Total	472	692	582
Antimony, Total	<5	<5	<5
Arsenic, Total	10	12	11
Barium, Total	88	37	62.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	5	<3	<4
Chromium, Hexavalent	<3	<10	<7
Chromium, Trivalent	5.17	<10.0	<7.59
Copper, Total	5	<1	<3
Cyanide, Free	<10	<10	<10
Lead, Total	1	0.8	0.9
Mercury, Total	<0.005	0.007	<0.006
Nickel, Total	4	<2	<3
Selenium, Total	<5	<0.5	<2.75
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	0.5	0.6	0.55
Zinc, Total	9	7	8

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 033 - POND 35C

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 033 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**7/21/2020**	**10/4/2021**	Average
Acrolein	<1	<5.00	<3.00
Acrylonitrile	<5	<3.00	<4.00
Anthracene	<1.97	<1.97	<1.97
Benzene	<5	<1.00	<3.00
Benzidine	<4.92	<4.93	<4.93
Benzo(*a*)anthracene	<1.97	<1.97	<1.97
Benzo(*a*)pyrene	<1.97	<1.97	<1.97
Bis(2-chloroethyl)ether	<1.97	<1.97	<1.97
Bis(2-ethylhexyl) phthalate	<1.97	<1.97	<1.97
Bromodichloromethane	<5	<1.00	<3.00
Bromoform	<5	<1.00	<3.00
Carbon Tetrachloride	<2	<1.00	<1.50
Chlorobenzene	<5	<1.00	<1.50
Chlorodibromomethane	<5	<1.00	<3.00
Chloroform	<5	<1.00	<3.00
Chrysene	<1.97	<1.97	<1.97
Cresols	<1.97	<1.97	<1.97
1,2-Dibromoethane	<5	<1.00	<3.00
m-Dichlorobenzene	<5	<1.00	<3.00
o-Dichlorobenzene	<5	<1.00	<3.00
p-Dichlorobenzene	<5	<1.00	<3.00
3,3'-Dichlorobenzidine	<1.97	<1.97	<1.97
1,2-Dichloroethane	<5	<1.00	<3.00
1,1-Dichloroethylene	<5	<1.00	<3.00
Dichloromethane	<5	<2.50	<3.75
1,2-Dichloropropane	<5	<1.00	<3.00
1,3-Dichloropropylene	<5	<1.00	<3.00
2,4-Dimethylphenol	<1.97	<1.97	<1.97
Di-*n*-Butyl Phthalate	<3.93	<3.94	<3.94
Epichlorohydrin	<20.0	<20.0	<20.0
Ethylbenzene	<5	<1.00	<3.00
Ethylene Glycol	<50,000	<50,000	<50,000
Fluoride	<20	<20	<20
Hexachlorobenzene	<1.97	<1.97	<1.97
Hexachlorobutadiene	<1.97	<1.97	<1.97

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2021 Sampling Results
OUTFALL 033 - POND 35C

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 033 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**7/21/2020**	**10/4/2021**	Average
Hexachlorocyclopentadiene	<1.97	<1.97	<1.97
Hexachloroethane	<1.97	<1.97	<1.97
4,4′-Isopropylidenediphenol [bisphenol A]	<9.80	<10.1	<9.95
Methyl Ethyl Ketone	<5	<15.0	<10.0
Methyl *tert*-butyl ether [MTBE]	<5	<1.00	<3.00
Nitrobenzene	<1.97	<1.97	<1.97
N-Nitrosodiethylamine	<1.97	<1.97	<1.97
N-Nitroso-di-*n*-Butylamine	<1.97	<1.97	<1.97
Nonylphenol	<68.8	<69.0	<68.9
Pentachlorobenzene	<1.97	<1.97	<1.97
Pentachlorophenol	<1.97	<1.97	<1.97
Phenanthrene	<1.97	<1.97	<1.97
Polychlorinated Biphenyls (PCBs) 2	<0.20	<0.100	<0.15
Pyridine	<3.93	<3.94	<3.94
1,2,4,5-Tetrachlorobenzene	<1.97	<1.97	<1.97
1,1,2,2-Tetrachloroethane	<5	<1.00	<3.00
Tetrachloroethylene	<5	<2.00	<3.50
Toluene	<5	<2.00	<3.50
1,1,1-Trichloroethane	<5	<1.00	<3.00
1,1,2-Trichloroethane	<5	<1.00	<3.00
Trichloroethylene	<5	<1.00	<3.00
2,4,5-Trichlorophenol	<1.97	<1.97	<1.97
TTHM (Total Trihalomethanes)	<40	<5.00	<22.50
Vinyl Chloride	<5	<1.0	<3.00

[1] Indicate units if different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

P.O. Box 280, Jourdanton, Texas 78026 (830) 784-3411

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

July 21, 2023

Texas Commission on Environmental Quality
Wastewater Permitting Section (MC-148)
Water Quality Division
P.O. Box 13087
Austin, Texas 78711-3087

Subject: **San Miguel Lignite Mine,**
TPDES Permit No. WQ0002043000
Attachment 1 Analytical Testing Results
Outfalls: 014, 015, 021, 025, 031, 051 and 053

To Whom It May Concern:

Enclosed are the analytical results from two sampling events for the Outfalls listed above, as required in Other Requirements, Section 19 of the TPDES Permit.

Please call me at (830) 784-3408 if you have any questions or need additional information.

Sincerely,

Nellie Frisbee

Nellie Frisbee
Permit Specialist

Attachments

CC: SMECI Electronic File

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 014 - POND 10

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 014 C ☐ G ☒	Effluent Concentration (mg/L)		
Pollutant	4/10/2023	5/23/2023	Average
Flow (MGD)	5	5	5
BOD (5-day)	8.92	3.99	6.455
CBOD (5-day)	8.49	3.62	6.055
Chemical Oxygen Demand	56.6	57.3	56.95
Total Organic Carbon	4.61	14.8	9.705
Dissolved Oxygen	11	10.30	10.65
Ammonia Nitrogen	<1.00	<1.00	<1.00
Total Suspended Solids	14.9	7.14	11.02
Nitrate Nitrogen	1.045	<0.100	<0.5725
Total Organic Nitrogen	1.68	<1.00	<1.34
Total Phosphorus	0.18	0.16	0.17
Oil and Grease	<4.75	<4.75	<4.75
Total Residual Chlorine	0.14	0.06	0.1
Total Dissolved Solids	5270	1820	3545
Sulfate	1130	492	811
Chloride	2180	956	1568
Fluoride	<0.02	<0.02	<0.02
Total Alkalinity (mg/L as $CaCO_3$)	108	84.0	96
Temperature (°F)	67.64	84.2	75.92
pH (Standard Units; min/max)	7.69	7.56	7.625

Table 2 – Metals			
Outfall No.: 014 C ☐ G ☒	Effluent Concentration (ug/L)[1]		
Pollutant	4/10/2023	5/23/2023	Average
Aluminum, Total	139	152	145.5
Antimony, Total	<5	<5	<5
Arsenic, Total	32	9	20.5
Barium, Total	31	40	35.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent (mg/L)	0.115	<0.003	<0.059
Chromium, Trivalent	<3.00	<3.00	<3.00
Copper, Total	2	1	1.5
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	<0.005	<0.005	<0.005
Nickel, Total	5	3	4
Selenium, Total	11	8	9.5
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	28	8	18

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 014 - POND 10

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 014 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	4/10/2023	5/23/2023	Average
Acrolein	<0.0007	<0.0007	<0.0007
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.01	<0.01	<0.01
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.01	<0.01	<0.01
Benzo(*a*)anthracene	<0.005	<0.005	<0.005
Benzo(*a*)pyrene	<0.005	<0.005	<0.005
Bis(2-chloroethyl)ether	<0.01	<0.01	<0.01
Bis(2-ethylhexyl) phthalate	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.005	<0.005	<0.005
Cresols	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005
m- Dichlorobenzene	<0.005	<0.005	<0.005
o- Dichlorobenzene	<0.005	<0.005	<0.005
p-Dichlorobenzene	<0.005	<0.005	<0.005
3,3'-Dichlorobenzidine	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.01	<0.01	<0.01
Di-*n*-Butyl Phthalate	<0.01	<0.01	<0.01
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<50.0	<50.0	<50.0
Fluoride	<0.02	<0.02	<0.02
Hexachlorobenzene	<0.005	<0.005	<0.005
Hexachlorobutadiene	<0.01	<0.01	<0.01

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 014 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	4/10/2023	5/23/2023	Average
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.01	<0.01
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00966	<0.00966	<0.00966
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.01	<0.01	<0.01
N-Nitrosodiethylamine	<0.01	<0.01	<0.01

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 014 - POND 10

N-Nitroso-di-*n*-Butylamine	<0.01	<0.01	<0.01
Nonylphenol	<0.333	<0.333	<0.333
Pentachlorobenzene	<0.01	<0.01	<0.01
Pentachlorophenol	<0.005	<0.005	<0.005
Phenanthrene	<0.01	<0.01	<0.01
Polychlorinated Biphenyls (PCBs) 2	<0.0002	<0.0002	<0.0002
Pyridine	<0.01	<0.01	<0.01
1,2,4,5-Tetrachlorobenzene	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.01	<0.01	<0.01
TTHM (Total Trihalomethanes) (ug/L)	<0.005	<0.005	<0.005
Vinyl Chloride	<0.005	<0.005	<0.005

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 015 - POND 11

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 015 C ☐ G ☒	**Effluent Concentration (mg/L)**		
Pollutant	**5/23/2023**	**5/31/2023**	**Average**
Flow (MGD)	1.4	1.4	1.4
BOD (5-day)	3.56	8.64	6.1
CBOD (5-day)	2.98	8.38	5.68
Chemical Oxygen Demand	61.5	61.9	61.7
Total Organic Carbon	13.90	16.5	15.2
Dissolved Oxygen	10.8	8.31	9.555
Ammonia Nitrogen	<1.0	<1.0	<1
Total Suspended Solids	6.71	10	8.355
Nitrate Nitrogen	<0.1	<0.1	<0.1
Total Organic Nitrogen	<1.0	<1.0	<1
Total Phosphorus	0.11	0.09	0.1
Oil and Grease	<4.75	<4.75	<4.75
Total Residual Chlorine	0.06	0.16	0.11
Total Dissolved Solids	2140	5480	3810
Sulfate	506	1090	798
Chloride	985	2440	1712.5
Fluoride	<0.02	0.049	<0.0345
Total Alkalinity (mg/L as $CaCO_3$)	80	120.0	100
Temperature (°F)	87.62	84.7	86.18
pH (Standard Units; min/max)	7.55	8.05	7.8

Table 2 – Metals			
Outfall No.: 015 C ☐ G ☒	**Effluent Concentration (µg/L)**[1]		
Pollutant	**5/23/2023**	**5/31/2023**	**Average**
Aluminum, Total	119	59	89
Antimony, Total	<5	<5	<5
Arsenic, Total	9	12	10.5
Barium, Total	40	43	41.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<3.0	<3.0	<3
Copper, Total	1	2	1.5
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	<0.005	<0.005	<0.005
Nickel, Total	3	5	4
Selenium, Total	6	<0.5	<3.25
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	10	7	8.5

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 015 - POND 11

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 015 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	5/23/2023	5/31/2023	Average
Acrolein	<0.0007	<0.0007	<0.0007
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.01	<0.01	<0.01
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.01	<0.01	<0.01
Benzo(*a*)anthracene	<0.005	<0.005	<0.005
Benzo(*a*)pyrene	<0.005	<0.005	<0.005
Bis(2-chloroethyl)ether	<0.01	<0.01	<0.01
Bis(2-ethylhexyl) phthalate	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.005	<0.005	<0.005
Cresols	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005
m- Dichlorobenzene	<0.01	<0.01	<0.01
o- Dichlorobenzene	<0.01	<0.01	<0.01
p -Dichlorobenzene	<0.01	<0.01	<0.01
3,3'-Dichlorobenzidine	<0.01	<0.01	<0.01
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.01	<0.01	<0.01
Di-*n* -Butyl Phthalate	<0.01	<0.01	<0.01
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<50.0	<50.0	<50
Fluoride	<0.02	0.049	<0.0345
Hexachlorobenzene	<0.005	<0.005	<0.005
Hexachlorobutadiene	<0.01	<0.01	<0.01

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 015 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	5/23/2023	5/31/2023	Average
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.01	<0.01
4,4'-Isopropylidenediphenol [bisphenol A]	<0.01	<0.0104	<0.0102
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert* -butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.01	<0.01	<0.01
N-Nitrosodiethylamine	<0.01	<0.01	<0.01
N-Nitroso-di-*n* -Butylamine	<0.01	<0.01	<0.01

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 015 - POND 11

Nonylphenol	<0.1	<0.1	<0.1
Pentachlorobenzene	<0.01	<0.01	<0.01
Pentachlorophenol	<0.01	<0.005	<0.0075
Phenanthrene	<0.01	<0.01	<0.01
Polychlorinated Biphenyls (PCBs) [2]	<0.0002	<0.0002	<0.0002
Pyridine	<0.01	<0.01	<0.01
1,2,4,5-Tetrachlorobenzene	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.01	<0.01	<0.01
TTHM (Total Trihalomethanes) (ug/L)	<10.0	<10.0	<10
Vinyl Chloride	<0.002	<0.002	<0.002

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 021 - POND 20

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 021 C ☐ G ☒	Effluent Concentration (mg/L)		
Pollutant	8/24/2021	6/5/2023	Average
Flow (MGD)	2.02	2.02	2.02
BOD (5-day)	5.54	2.45	3.995
CBOD (5-day)	5.27	2.17	3.72
Chemical Oxygen Demand	59.2	27.1	43.15
Total Organic Carbon	18.00	14.50	16.25
Dissolved Oxygen	8.65	7.35	8
Ammonia Nitrogen	<1.0	<1.0	<1
Total Suspended Solids	13	3.67	8.335
Nitrate Nitrogen	<0.1	<0.10	<0.1
Total Organic Nitrogen	2.8	<1.0	<1.9
Total Phosphorus	0.09	0.4	0.245
Oil and Grease	<5.26	<4.75	<5.005
Total Residual Chlorine	0.06	0.02	0.04
Total Dissolved Solids	1710	1090	1400
Sulfate	367	218	292.5
Chloride	585	332	458.5
Fluoride	0.284	0.172	0.228
Total Alkalinity (mg/L as $CaCO_3$)	188	120	154
Temperature (°F)	73.76	84.2	78.98
pH (Standard Units; min/max)	8.34	7.43	7.885

Table 2 – Metals			
Outfall No.: 021 C ☐ G ☒	Effluent Concentration (µg/L)[1]		
Pollutant	8/24/2021	6/5/2023	Average
Aluminum, Total	978	5270	3124
Antimony, Total	<5	<5	<5
Arsenic, Total	5	8	6.5
Barium, Total	43	59	51
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<3.0	<3.0	<3
Copper, Total	<1	2	<1.5
Cyanide, Free	<10	<10	<10
Lead, Total	0.8	2	1.4
Mercury, Total	<0.005	<0.005	<0.005
Nickel, Total	<2	3	<2.5
Selenium, Total	1	3	2
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	9	21	15

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 021 - POND 20

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 021 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	8/24/2021	6/5/2023	Average
Acrolein	<0.02	<0.0007	<0.01035
Acrylonitrile	<0.003	<0.005	<0.004
Anthracene	<0.00198	<0.01	<0.00599
Benzene	<0.001	<0.005	<0.003
Benzidine	<0.00496	<0.01	<0.00748
Benzo(*a*)anthracene	<0.00198	<0.005	<0.00349
Benzo(*a*)pyrene	<0.00198	<0.005	<0.00349
Bis(2-chloroethyl)ether	<0.00198	<0.01	<0.00599
Bis(2-ethylhexyl) phthalate	<0.00198	<0.01	<0.00599
Bromodichloromethane	<0.001	<0.005	<0.003
Bromoform	<0.001	<0.005	<0.003
Carbon Tetrachloride	<0.001	<0.002	<0.0015
Chlorobenzene	<0.001	<0.005	<0.003
Chlorodibromomethane	<0.001	<0.005	<0.003
Chloroform	<0.001	<0.005	<0.003
Chrysene	<0.00198	<0.005	<0.00349
Cresols	<0.00198	<0.010	<0.00599
1,2-Dibromoethane	<0.001	<0.005	<0.003
m-Dichlorobenzene	<0.001	<0.01	<0.0055
o-Dichlorobenzene	<0.001	<0.01	<0.0055
p-Dichlorobenzene	<0.001	<0.01	<0.0055
3,3'-Dichlorobenzidine	<0.00198	<0.01	<0.00599
1,2-Dichloroethane	<0.001	<0.005	<0.003
1,1-Dichloroethylene	<0.001	<0.005	<0.003
Dichloromethane (Methylene Chloride)	<0.0250	<0.005	<0.015
1,2-Dichloropropane	<0.001	<0.005	<0.003
1,3-Dichloropropylene	<0.001	<0.005	<0.003
2,4-Dimethylphenol	<0.00198	<0.01	<0.00599
Di-*n*-Butyl Phthalate	<0.00397	<0.01	<0.006985
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.001	<0.005	<0.003
Ethylene Glycol	<50.0	<50.0	<50
Fluoride	0.284	0.172	0.228
Hexachlorobenzene	<0.00198	<0.005	<0.00349
Hexachlorobutadiene	<0.00198	<0.01	<0.00599

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 021 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	8/24/2021	6/5/2023	Average
Hexachlorocyclopentadiene	<0.00198	<0.01	<0.00599
Hexachloroethane	<0.00198	<0.01	<0.00599
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00976	<0.01	<0.00988
Methyl Ethyl Ketone	<0.015	<0.005	<0.01
Methyl *tert*-butyl ether [MTBE]	<0.001	<0.005	<0.003
Nitrobenzene	<0.00198	<0.01	<0.00599
N-Nitrosodiethylamine	<0.00198	<0.01	<0.00599
N-Nitroso-di-*n*-Butylamine	<0.00198	<0.01	<0.00599

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 021 - POND 20

Nonylphenol	<0.0694	<0.10	<0.0847
Pentachlorobenzene	<0.00198	<0.01	<0.00599
Pentachlorophenol	<0.00198	<0.005	<0.00349
Phenanthrene	<0.00198	<0.01	<0.00599
Polychlorinated Biphenyls (PCBs) 2	<0.0000995	<0.0002	<0.00014975
Pyridine	<0.00397	<0.01	<0.006985
1,2,4,5-Tetrachlorobenzene	<0.00198	<0.01	<0.00599
1,1,2,2-Tetrachloroethane	<0.001	<0.005	<0.003
Tetrachloroethylene	<0.002	<0.005	<0.0035
Toluene	<0.002	<0.005	<0.0035
1,1,1-Trichloroethane	<0.001	<0.005	<0.003
1,1,2-Trichloroethane	<0.001	<0.005	<0.003
Trichloroethylene	<0.001	<0.005	<0.003
2,4,5-Trichlorophenol	<0.00198	<0.01	<0.00599
TTHM (Total Trihalomethanes) (ug/L)	<0.005	<0.01	<0.0075
Vinyl Chloride	<0.001	<0.002	<0.0015

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 025 - POND 5

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 025 C ☐ G ☒	**Effluent Concentration (mg/L)**		
Pollutant	**6/2/2021**	**5/23/2023**	**Average**
Flow (MGD)	1.42	1.42	1.42
BOD (5-day)	2.89	7.19	5.04
CBOD (5-day)	2.88	6.44	4.66
Chemical Oxygen Demand	20.4	37	28.7
Total Organic Carbon	12.60	15.30	13.95
Dissolved Oxygen	10.6	10.4	10.5
Ammonia Nitrogen	<1.0	<1.0	<1
Total Suspended Solids	3.76	<3.57	<3.665
Nitrate Nitrogen	<0.1	<50.0	<25.05
Total Organic Nitrogen	<1.0	<1.0	<1
Total Phosphorus	0.36	0.09	0.225
Oil and Grease	<5.0	<4.75	<4.875
Total Residual Chlorine	<0.01	0.04	<0.025
Total Dissolved Solids	302	560	431
Sulfate	68	416	241.75
Chloride	49.4	18.4	33.9
Fluoride	0.122	0.174	0.148
Total Alkalinity (mg/L as $CaCO_3$)	64	60	62
Temperature (°F)	84.38	83.12	83.75
pH (Standard Units; min/max)	7.10	7.19	7.145

Table 2 – Metals			
Outfall No.: 025 C ☐ G ☒	**Effluent Concentration (µg/L)[1]**		
Pollutant	**6/2/2021**	**5/23/2023**	**Average**
Aluminum, Total	42	29	35.5
Antimony, Total	<5	<5	<5
Arsenic, Total	4	6	5
Barium, Total	24	27	25.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<3.00	<3.00	<3
Copper, Total	<1	<1	<1
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	0.005	<0.005	<0.005
Nickel, Total	5	4	4.5
Selenium, Total	<0.5	3	<1.75
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	6	12	9

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 025 - POND 5

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 025 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	6/2/2021	5/23/2023	Average
Acrolein	<0.001	<0.0007	<0.00085
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.00199	<0.01	<0.005995
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.00496	<0.01	<0.00748
Benzo(*a*)anthracene	<0.00199	<0.005	<0.003495
Benzo(*a*)pyrene	<0.00199	<0.005	<0.003495
Bis(2-chloroethyl)ether	<0.00199	<0.01	<0.005995
Bis(2-ethylhexyl) phthalate	<0.00199	<0.01	<0.005995
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.00199	<0.005	<0.003495
Cresols	<0.00199	<0.01	<0.005995
1,2-Dibromoethane	<0.005	<0.005	<0.005
m- Dichlorobenzene	<0.005	<0.01	<0.0075
o- Dichlorobenzene	<0.005	<0.01	<0.0075
p-Dichlorobenzene	<0.005	<0.01	<0.0075
3,3'-Dichlorobenzidine	<0.00199	<0.01	<0.005995
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.00199	<0.01	<0.005995
Di-*n*-Butyl Phthalate	<0.00397	<0.01	<0.006985
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<50.0	<50.0	<50
Fluoride	0.122	0.174	0.148
Hexachlorobenzene	<0.00199	<0.005	<0.003495
Hexachlorobutadiene	<0.00199	<0.01	<0.005995

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 025 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	6/2/2021	5/23/2023	Average
Hexachlorocyclopentadiene	<0.00199	<0.01	<0.005995
Hexachloroethane	<0.00199	<0.01	<0.005995
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00981	<0.0102	<0.010005
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.00199	<0.01	<0.005995
N-Nitrosodiethylamine	<0.00199	<0.01	<0.005995
N-Nitroso-di-*n*-Butylamine	<0.00199	<0.01	<0.005995
Nonylphenol	<0.0695	<0.10	<0.08475
Pentachlorobenzene	<0.00199	<0.01	<0.005995

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 025 - POND 5

Pentachlorophenol	<0.00199	<0.005	<0.003495
Phenanthrene	<0.00199	<0.01	<0.005995
Polychlorinated Biphenyls (PCBs) 2	<0.0002	<0.0002	<0.0002
Pyridine	<0.00397	<0.01	<0.006985
1,2,4,5-Tetrachlorobenzene	<0.00199	<0.01	<0.005995
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.00199	<0.01	<0.005995
TTHM (Total Trihalomethanes) (ug/L)	<20.0	<10.0	<15
Vinyl Chloride	<0.005	<0.002	<0.0035

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 031 - POND 37

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 031 C [ ] G [X]	**Effluent Concentration (mg/L)**		
Pollutant	**10/19/2021**	**6/5/2023**	**Average**
Flow (MGD)	1.8	1.8	1.8
BOD (5-day)	4.7	6.51	5.605
CBOD (5-day)	4.04	6.28	5.16
Chemical Oxygen Demand	34.3	40.6	37.45
Total Organic Carbon	9.20	15.9	12.55
Dissolved Oxygen	9.91	7.12	8.515
Ammonia Nitrogen	<1.0	<1.0	<1
Total Suspended Solids	7.65	10.9	9.275
Nitrate Nitrogen	0.175	<0.1	<0.1375
Total Organic Nitrogen	2.8	<1.0	<1.9
Total Phosphorus	0.25	0.2	0.225
Oil and Grease	<5.0	<4.75	<4.875
Total Residual Chlorine	0.13	0.07	0.1
Total Dissolved Solids	794	2010	1402
Sulfate	1370	437	903.5
Chloride	810	690	750
Fluoride	<0.02	0.165	<0.0925
Total Alkalinity (mg/L as $CaCO_3$)	76	100.0	88
Temperature (°F)	78.08	83.5	80.78
pH (Standard Units; min/max)	7.73	8.04	7.885

Table 2 – Metals			
Outfall No.: 031 C [ ] G [X]	**Effluent Concentration (µg/L)**[1]		
Pollutant	**10/19/2021**	**6/5/2023**	**Average**
Aluminum, Total	54	315	184.5
Antimony, Total	<5	<5	<5
Arsenic, Total	17	11	14
Barium, Total	35	75	55
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<3.00	<3.0	<3
Copper, Total	<1	1	<1
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	0.01	<0.005	<0.0075
Nickel, Total	<2	<2	<2
Selenium, Total	<0.5	8	<4.25
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	<0.5	<0.5	<0.5
Zinc, Total	19	11	15

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 031 - POND 37

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 031 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	10/19/2021	6/5/2023	Average
Acrolein	<0.005	<0.0007	<0.00285
Acrylonitrile	<0.003	<0.005	<0.004
Anthracene	<0.00201	<0.01	<0.006005
Benzene	<0.001	<0.005	<0.003
Benzidine	<0.00502	<0.01	<0.00751
Benzo(*a*)anthracene	<0.00201	<0.005	<0.003505
Benzo(*a*)pyrene	<0.00201	<0.005	<0.003505
Bis(2-chloroethyl)ether	<0.00201	<0.01	<0.006005
Bis(2-ethylhexyl) phthalate	<0.00201	<0.01	<0.006005
Bromodichloromethane	<0.001	<0.005	<0.003
Bromoform	<0.001	<0.005	<0.003
Carbon Tetrachloride	<0.001	<0.002	<0.0015
Chlorobenzene	<0.001	<0.005	<0.003
Chlorodibromomethane	<0.001	<0.005	<0.003
Chloroform	<0.001	<0.005	<0.003
Chrysene	<0.00201	<0.005	<0.003505
Cresols	<0.00201	<0.01	<0.006005
1,2-Dibromoethane	<0.001	<0.005	<0.003
m- Dichlorobenzene	<0.001	<0.01	<0.0055
o- Dichlorobenzene	<0.001	<0.01	<0.0055
p-Dichlorobenzene	<0.001	<0.01	<0.0055
3,3'-Dichlorobenzidine	<0.00201	<0.01	<0.006005
1,2-Dichloroethane	<0.001	<0.005	<0.003
1,1-Dichloroethylene	<0.001	<0.005	<0.003
Dichloromethane (Methylene Chloride)	<0.0025	<0.005	<0.00375
1,2-Dichloropropane	<0.001	<0.005	<0.003
1,3-Dichloropropylene	<0.001	<0.005	<0.003
2,4-Dimethylphenol	<0.00201	<0.01	<0.006005
Di-*n*-Butyl Phthalate	<0.00402	<0.01	<0.00701
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.001	<0.005	<0.003
Ethylene Glycol	<50.0	<50.0	<50
Fluoride	<0.02	0.165	<0.0925
Hexachlorobenzene	<0.00201	<0.005	<0.003505
Hexachlorobutadiene	<0.00201	<0.01	<0.006005

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 031 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	10/19/2021	6/5/2023	Average
Hexachlorocyclopentadiene	<0.00201	<0.01	<0.006005
Hexachloroethane	<0.00201	<0.01	<0.006005
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00962	<0.0105	<0.01006
Methyl Ethyl Ketone	<0.015	<0.005	<0.01
Methyl *tert*-butyl ether [MTBE]	<0.001	<0.005	<0.003
Nitrobenzene	<0.00201	<0.01	<0.006005
N-Nitrosodiethylamine	<0.00201	<0.01	<0.006005
N-Nitroso-di-*n*-Butylamine	<0.00201	<0.01	<0.006005

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2021 and 2023 Sampling Results
OUTFALL 031 - POND 37

Nonylphenol	<0.0703	<0.10	<0.08515
Pentachlorobenzene	<0.00201	<0.01	<0.006005
Pentachlorophenol	<0.00201	<0.005	<0.003505
Phenanthrene	<0.00201	<0.01	<0.006005
Polychlorinated Biphenyls (PCBs) 2	<0.0000964	<0.0002	<0.0001482
Pyridine	<0.00402	<0.01	<0.00701
1,2,4,5-Tetrachlorobenzene	<0.00201	<0.01	<0.006005
1,1,2,2-Tetrachloroethane	<0.001	<0.005	<0.003
Tetrachloroethylene	<0.002	<0.005	<0.0035
Toluene	<0.002	<0.005	<0.0035
1,1,1-Trichloroethane	<0.001	<0.005	<0.003
1,1,2-Trichloroethane	<0.001	<0.005	<0.003
Trichloroethylene	<0.002	<0.005	<0.0035
2,4,5-Trichlorophenol	<0.00201	<0.01	<0.006005
TTHM (Total Trihalomethanes) (ug/L)	<5.00	<10.0	<7.5
Vinyl Chloride	<0.001	<0.002	<0.0015

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES permit No. WQ0002043000
OTHER REQUIREMENTS: Atachment 1, 2021 and 2023 Sampling Results
OUTFALL 051 - POND F-1

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 051 C ☐ G ☒	Effluent Concentration (mg/L)		
Pollutant	5/15/2023	5/30/2023	Average
Flow (MGD)	1.4	1.4	1.4
BOD (5-day)	5.32	3.42	4.37
CBOD (5-day)	4.57	2.57	3.57
Chemical Oxygen Demand	24.5	38.3	31.4
Total Organic Carbon	7.93	7.71	7.82
Dissolved Oxygen	9.81	8.19	9
Ammonia Nitrogen	<1.0	<1.0	<1.0
Total Suspended Solids	22.6	6.67	14.635
Nitrate Nitrogen	<0.100	<0.1	<0.1
Total Organic Nitrogen	1.12	<1.0	<1.06
Total Phosphorus	0.12	<0.05	<0.085
Oil and Grease	<4.75	<4.75	<4.75
Total Residual Chlorine	0.03	0.1	0.065
Total Dissolved Solids	3320	3040	3180
Sulfate	1320	1440	1380
Chloride	606	679	642.5
Fluoride	0.38	0.333	0.3565
Total Alkalinity (mg/L as $CaCO_3$)	44	40.0	42
Temperature (°F)	70.16	74.7	72.41
pH (Standard Units; min/max)	8.56	8.74	8.65

Table 2 – Metals			
Outfall No.: 051 C ☐ G ☒	Effluent Concentration (µg/L)[1]		
Pollutant	5/15/2023	5/30/2023	Average
Aluminum, Total	93	35	64
Antimony, Total	<5	<5	<5
Arsenic, Total	7	0.5	3.75
Barium, Total	51	43	47
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	<1	<1	<1
Chromium, Total	<3	<3	<3
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<3.0	<3.0	<3
Copper, Total	1	1	1
Cyanide, Free	<10	<10	<10
Lead, Total	<0.5	<0.5	<0.5
Mercury, Total	<0.005	<0.005	<0.005
Nickel, Total	6	5	5.5
Selenium, Total	46	5	25.5
Silver, Total	<0.5	<0.5	<0.5
Thallium, Total	0.6	<0.5	<0.55
Zinc, Total	<5	11	<8

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES permit No. WQ0002043000
OTHER REQUIREMENTS: Atachment 1, 2021 and 2023 Sampling Results
OUTFALL 051 - POND F-1

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 051 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	5/15/2023	5/30/2023	Average
Acrolein	<0.0007	<0.0007	<0.0007
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.005	<0.01	<0.0075
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.01	<0.01	<0.01
Benzo(*a*)anthracene	<0.01	<0.005	<0.0075
Benzo(*a*)pyrene	<0.005	<0.005	<0.005
Bis(2-chloroethyl)ether	<0.01	<0.01	<0.01
Bis(2-ethylhexyl) phthalate	<0.005	<0.01	<0.0075
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.005	<0.005	<0.005
Cresols	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005
m- Dichlorobenzene	<0.01	<0.01	<0.01
o- Dichlorobenzene	<0.01	<0.01	<0.01
p-Dichlorobenzene	<0.01	<0.01	<0.01
3,3'-Dichlorobenzidine	<0.005	<0.01	<0.0075
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.005	<0.01	<0.0075
Di-*n*-Butyl Phthalate	<0.005	<0.01	<0.0075
Epichlorohydrin	<0.020	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<48.9	<50.0	<49.45
Fluoride	0.38	0.333	<0.3565
Hexachlorobenzene	<0.005	<0.005	<0.005
Hexachlorobutadiene	<0.005	<0.01	<0.0075

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 051 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	5/15/2023	5/30/2023	Average
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01
Hexachloroethane	<0.005	<0.01	<0.0075
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00988	<0.01	<0.00994
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.005	<0.01	<0.0075
N-Nitrosodiethylamine	<0.01	<0.01	<0.01
N-Nitroso-di-*n*-Butylamine	<0.01	<0.01	<0.01

San Miguel Lignite Mine
TPDES permit No. WQ0002043000
OTHER REQUIREMENTS: Atachment 1, 2021 and 2023 Sampling Results
OUTFALL 051 - POND F-1

Nonylphenol	<0.10	<0.1	<0.1
Pentachlorobenzene	<0.01	<0.01	<0.01
Pentachlorophenol	<0.01	<0.005	<0.0075
Phenanthrene	<0.01	<0.01	<0.01
Polychlorinated Biphenyls (PCBs) 2	<0.0002	<0.0002	<0.0002
Pyridine	<0.01	<0.01	<0.01
1,2,4,5-Tetrachlorobenzene	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.005	<0.01	<0.0075
TTHM (Total Trihalomethanes) (ug/L)	<10.0	<10.0	<10
Vinyl Chloride	<0.002	<0.002	<0.002

1 Units are indicated when different than µg/L.

2 Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachments 1, 2021 and 2023 Sampling results
OUTFALL 053 - POND G-2

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 053 C ☐ G ☒	Effluent Concentration (mg/L)		
Pollutant	5/8/2023	5/17/2023	Average
Flow (MGD)	1.4	1.4	1.4
BOD (5-day)	4.74	5.11	4.925
CBOD (5-day)	4.08	4.59	4.335
Chemical Oxygen Demand	63.2	51.7	57.45
Total Organic Carbon	12.90	11.9	12.4
Dissolved Oxygen	9.41	8.57	8.99
Ammonia Nitrogen	<1.0	<1.0	1
Total Suspended Solids	10.2	24.5	17.35
Nitrate Nitrogen	0.426	<0.10	0.263
Total Organic Nitrogen	1.12	<1.0	1.06
Total Phosphorus	<0.05	<0.05	0.05
Oil and Grease	<4.75	<4.75	4.75
Total Residual Chlorine	0.04	0.02	0.03
Total Dissolved Solids	4790	3550	4170
Sulfate	1270	1370	1320
Chloride	9300	1030	5165
Fluoride	<0.02	<0.02	0.02
Total Alkalinity (mg/L as $CaCO_3$)	80	72.0	76
Temperature (°F)	82.94	78.4	80.69
pH (Standard Units; min/max)	8.92	8.76	8.84

Table 2 – Metals			
Outfall No.: 053 C ☐ G ☒	Effluent Concentration (µg/L)[1]		
Pollutant	5/8/2023	5/17/2023	Average
Aluminum, Total	71	823	447
Antimony, Total	<5	<5	5
Arsenic, Total	2	10	6
Barium, Total	73	68	70.5
Beryllium, Total	<0.5	<0.5	0.5
Cadmium, Total	<1	<1	1
Chromium, Total	<3	<3	3
Chromium, Hexavalent (mg/L)	<0.003	<0.003	0.003
Chromium, Trivalent	<3.0	<3.0	3
Copper, Total	2	2	2
Cyanide, Free	<10.0	<10	10
Lead, Total	<0.5	<0.5	0.5
Mercury, Total	0.0054	0.00598	0.00569
Nickel, Total	5	5	5
Selenium, Total	60	57	58.5
Silver, Total	<0.5	<0.5	0.5
Thallium, Total	<0.5	<0.5	0.5
Zinc, Total	5	6	5.5

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachments 1, 2021 and 2023 Sampling results
OUTFALL 053 - POND G-2

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 053 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	5/8/2023	5/17/2023	Average
Acrolein	<0.0007	<0.0007	<0.0007
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.01	<0.005	<0.0075
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.01	<0.01	<0.01
Benzo(*a*)anthracene	<0.005	<0.01	<0.0075
Benzo(*a*)pyrene	<0.005	<0.005	<0.005
Bis(2-chloroethyl)ether	<0.01	<0.01	<0.01
Bis(2-ethylhexyl) phthalate	<0.01	<0.005	<0.0075
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.005	<0.005	<0.005
Cresols	<0.01	<0.01	<0.01
1,2-Dibromoethane	<0.005	<0.005	<0.005
m-Dichlorobenzene	<0.01	<0.01	<0.01
o-Dichlorobenzene	<0.01	<0.01	<0.01
p-Dichlorobenzene	<0.01	<0.01	<0.01
3,3'-Dichlorobenzidine	<0.005	<0.005	<0.005
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.01	<0.01	<0.01
Di-*n*-Butyl Phthalate	<0.01	0.005	<0.0075
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<48.9	<50.0	<49.45
Fluoride	<0.02	<0.02	<0.02
Hexachlorobenzene	<0.005	<0.005	<0.005
Hexachlorobutadiene	<0.01	<0.005	<0.0075

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 053 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	5/8/2023	5/17/2023	Average
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.005	<0.0075
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00984	<0.00965	<0.009745
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.01	<0.005	<0.0075
N-Nitrosodiethylamine	<0.01	<0.01	<0.01
N-Nitroso-di-*n*-Butylamine	<0.01	<0.01	<0.01

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachments 1, 2021 and 2023 Sampling results
OUTFALL 053 - POND G-2

Nonylphenol	<0.1	<0.10	<0.1
Pentachlorobenzene	<0.01	<0.01	<0.01
Pentachlorophenol	<0.005	<0.01	<0.0075
Phenanthrene	<0.01	<0.01	<0.01
Polychlorinated Biphenyls (PCBs) 2	<0.0002	<0.0002	<0.0002
Pyridine	<0.01	<0.01	<0.01
1,2,4,5-Tetrachlorobenzene	<0.01	<0.01	<0.01
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.01	<0.005	<0.0075
TTHM (Total Trihalomethanes) (ug/L)	<10.0	<10.0	<10
Vinyl Chloride	<0.002	<0.002	<0.002

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachments 1, 2021 and 2023 Sampling results
OUTFALL 053 - POND G-2

P.O. Box 280, Jourdanton, Texas 78026 (830) 784-3411

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

August 7, 2023

Texas Commission on Environmental Quality
Wastewater Permitting Section (MC-148)
Water Quality Division
P.O. Box 13087
Austin, Texas 78711-3087

Subject: **San Miguel Lignite Mine,**
TPDES Permit No. WQ0002043000
Attachment 1 Additional Analytical Testing Results
Outfalls: 006, 012 and 028

To Whom It May Concern:

San Miguel Electric Cooperative, Inc.is submitting this second report of Attachment 1 sampling data. In preparing the July 21, 2023 report, it was discovered there were older data, of a single sampling event that had not been reported. Now that a second sample is available, the older data is being submitted. Enclosed are the analytical results from two sampling events for the Outfalls listed above, as required in Other Requirements, Section 19 of the TPDES Permit.

Please call me at (830) 784-3408 if you have any questions or need additional information.

Sincerely,

Nellie Frisbee

Nellie Frisbee
Permit Specialist

Attachments

CC: SMECI Electronic File

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2023 Sampling Results
OUTFALL 006 - POND E

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 006 C [ ] G [X]	**Effluent Concentration (mg/L)**		
Pollutant	**9/17/2020**	**5/31/2023**	**Average**
Flow (MGD)	1.8	1.8	1.8
BOD (5-day)	3.05	3.97	3.5
CBOD (5-day)	4.31	3.24	3.8
Chemical Oxygen Demand	38.8	28.5	33.7
Total Organic Carbon	9.30	13.30	11.3
Dissolved Oxygen	9.23	8.11	8.7
Ammonia Nitrogen	1.12	<1.0	<1.06
Total Suspended Solids	<2.50	4.04	<3.27
Nitrate Nitrogen	<0.1	<0.1	<0.1
Total Organic Nitrogen	<1.0	1.68	<1.34
Total Phosphorus	1.35	<0.05	<0.7
Oil and Grease	<5.0	<4.75	<4.875
Total Residual Chlorine	0.08	0.02	0.05
Total Dissolved Solids	1510	877	1193.5
Sulfate	883	618	750.5
Chloride	99.1	464	281.6
Fluoride	<0.02	<0.02	<0.02
Total Alkalinity (mg/L as $CaCO_3$)	80	140	110
Temperature (°F)	86.54	80.42	83.48
pH (Standard Units; min/max)	7.41	7.47	7.44

Table 2 – Metals			
Outfall No.: 006 C [ ] G [X]	**Effluent Concentration (ug/L)**[1]		
Pollutant	**9/17/2020**	**5/31/2023**	**Average**
Aluminum, Total	25	82	53.5
Antimony, Total	<10	<5	7.5
Arsenic, Total	6	9	7.5
Barium, Total	53	23	38
Beryllium, Total	<1	<0.5	0.75
Cadmium, Total	<1	<1	1
Chromium, Total	<5	<3	4
Chromium, Hexavalent (mg/L)	<0.01	<0.003	0.0065
Chromium, Trivalent	<10.0	<3.0	6.5
Copper, Total	2	<1	1.5
Cyanide, Free	<20	<10	15
Lead, Total	<1	<0.5	0.75
Mercury, Total	0.006	<0.005	0.0055
Nickel, Total	3	3	3
Selenium, Total	<1	<0.5	0.75
Silver, Total	<1	0.9	0.95
Thallium, Total	<5	<0.5	2.75
Zinc, Total	15	7	11

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2023 Sampling Results
OUTFALL 006 - POND E

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 006 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	9/17/2020	5/31/2023	Average
Acrolein	<0.001	<0.0007	<0.00085
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.00198	<0.01	<0.00599
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.00494	<0.01	<0.00747
Benzo(*a*)anthracene	<0.00198	<0.005	<0.00349
Benzo(*a*)pyrene	<0.00198	<0.005	<0.00349
Bis(2-chloroethyl)ether	<0.00198	<0.01	<0.00599
Bis(2-ethylhexyl) phthalate	<0.00198	<0.01	<0.00599
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.00198	<0.005	<0.00349
Cresols	<0.00198	<0.01	<0.00599
1,2-Dibromoethane	<0.005	<0.005	<0.005
m-Dichlorobenzene	<0.005	<0.01	<0.0075
o-Dichlorobenzene	<0.005	<0.01	<0.0075
p-Dichlorobenzene	<0.005	<0.01	<0.0075
3,3'-Dichlorobenzidine	<0.00198	<0.01	<0.00599
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.00198	<0.005	<0.00349
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.00198	<0.01	<0.00599
Di-*n*-Butyl Phthalate	<0.00395	<0.01	<0.006975
Epichlorohydrin	<0.02	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<0.05	<50.0	<25.025
Fluoride	<0.02	<0.02	<0.02
Hexachlorobenzene	<0.00198	<0.005	<0.00349
Hexachlorobutadiene	<0.00198	<0.01	<0.00599

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 006 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	9/17/2020	5/31/2023	Average
Hexachlorocyclopentadiene	<0.00198	<0.01	<0.00599
Hexachloroethane	<0.00198	<0.01	<0.00599
4,4'-Isopropylidenediphenol [bisphenol A]	<0.00974	<0.0106	<0.01017
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.00198	<0.01	<0.00599
N-Nitrosodiethylamine	<0.00198	<0.01	<0.00599
N-Nitroso-di-*n*-Butylamine	<0.00198	<0.01	<0.00599

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2020 and 2023 Sampling Results
OUTFALL 006 - POND E

Nonylphenol	Not Determined	<0.10	<0.1
Pentachlorobenzene	<0.00198	<0.01	<0.00599
Pentachlorophenol	<0.00198	<0.005	<0.00349
Phenanthrene	<0.00198	<0.01	<0.00599
Polychlorinated Biphenyls (PCBs) 2	<0.001	<0.0002	<0.0006
Pyridine	<0.00395	<0.01	<0.006975
1,2,4,5-Tetrachlorobenzene	<0.00198	<0.01	<0.00599
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.00198	<0.01	<0.00599
TTHM (Total Trihalomethanes) (ug/L)	<20	<10	<15
Vinyl Chloride	<0.005	<0.002	<0.0035

[1] Indicates units are different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2018 and 2021 Sampling Results
OUTALL 012 - POND 7

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 012 C [ ] G [X]	Effluent Concentration (mg/L)		
Pollutant	11/28/2018	6/16/2021	Average
Flow (MGD)	3.17	3.17	3.17
BOD (5-day)	3.63	10.3	6.97
CBOD (5-day)	3.29	10.4	6.85
Chemical Oxygen Demand	129	142	135.5
Total Organic Carbon	48.20	26.70	37.45
Dissolved Oxygen	11.4	10.5	10.95
Ammonia Nitrogen	<1.0	<1.0	<1
Total Suspended Solids	4.9	6	5.5
Nitrate Nitrogen	0.31	1.195	0.8
Total Organic Nitrogen	2.8	2.24	2.5
Total Phosphorus	<0.05	<0.05	<0.05
Oil and Grease	<5.10	<5.0	<5.05
Total Residual Chlorine	0.04	0.25	0.15
Total Dissolved Solids	6710	5260	5985
Sulfate	2150	192	1171
Chloride	2810	199	1504.5
Fluoride	<0.02	1.21	<0.615
Total Alkalinity (mg/L as $CaCO_3$)	124	72	98
Temperature (°F)	59.9	91.76	75.83
pH (Standard Units; min/max)	7.86	7.05	7.46

Table 2 – Metals			
Outfall No.: 012 C [ ] G [X]	Effluent Concentration (µg/L)[1]		
Pollutant	11/28/2018	6/16/2021	Average
Aluminum, Total	65	45	55
Antimony, Total	<5.0	<5	<5
Arsenic, Total	7	2	4.5
Barium, Total	59	48	53.5
Beryllium, Total	0.8	<0.5	<0.65
Cadmium, Total	<5.0	<1	<3
Chromium, Total	<15.0	<3	<9
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<15.0	<3.00	<9
Copper, Total	<10.0	2	<6
Cyanide, Free	<10.0	<10	<10
Lead, Total	3	<5	<4
Mercury, Total	<0.005	0.005	<0.005
Nickel, Total	17	9	13
Selenium, Total	21	10	15.5
Silver, Total	<2.0	<0.5	<1.25
Thallium, Total	<2.0	<5	<3.5
Zinc, Total	21	11	16

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2018 and 2021 Sampling Results
OUTALL 012 - POND 7

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 012 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	11/28/2018	6/16/2021	Average
Acrolein	Not Determined	<0.02	<0.02
Acrylonitrile	<0.005	<0.003	<0.004
Anthracene	<0.01	<0.00198	<0.00599
Benzene	<0.005	<0.001	<0.003
Benzidine	<0.01	<0.00496	<0.00748
Benzo(*a*)anthracene	<0.01	<0.00198	<0.00599
Benzo(*a*)pyrene	<0.01	<0.00198	<0.00599
Bis(2-chloroethyl)ether	<0.01	<0.00198	<0.00599
Bis(2-ethylhexyl) phthalate	<0.01	<0.00198	<0.00599
Bromodichloromethane	<0.005	<0.001	<0.003
Bromoform	<0.005	<0.001	<0.003
Carbon Tetrachloride	<0.002	<0.001	<0.0015
Chlorobenzene	<0.005	<0.001	<0.003
Chlorodibromomethane	<0.005	<0.001	<0.003
Chloroform	<0.005	<0.001	<0.003
Chrysene	<0.01	<0.00198	<0.00599
Cresols	<0.01	<<0.00198	<0.00599
1,2-Dibromoethane	<0.005	<0.001	<0.003
m-Dichlorobenzene	<0.01	<0.001	<0.0055
o-Dichlorobenzene	<0.01	<0.001	<0.0055
p-Dichlorobenzene	<0.01	<0.001	<0.0055
3,3'-Dichlorobenzidine	<0.01	<0.00198	<0.00599
1,2-Dichloroethane	<0.005	<0.001	<0.003
1,1-Dichloroethylene	<0.005	<0.001	<0.003
Dichloromethane (Methylene Chloride)	<0.005	<0.0025	<0.00375
1,2-Dichloropropane	<0.005	<0.001	<0.003
1,3-Dichloropropylene	<0.005	<0.001	<0.003
2,4-Dimethylphenol	<0.01	<0.00198	<0.00599
Di-*n*-Butyl Phthalate	<0.01	<0.00397	<0.006985
Epichlorohydrin	Not Determined	<0.02	<0.02
Ethylbenzene	<0.005	<0.001	<0.003
Ethylene Glycol	Not Determined	<50.0	<50
Fluoride	<0.02	1.21	<0.615
Hexachlorobenzene	<0.01	<0.00198	<0.00599
Hexachlorobutadiene	<0.01	<0.00198	<0.00599

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 012 C ☐ G ☒	Effluent Concentration (mg/L)[1]		
Pollutant	11/28/2018	6/16/2021	Average
Hexachlorocyclopentadiene	<0.01	<0.00198	<0.00599
Hexachloroethane	<0.01	<0.00198	<0.00599
4,4'-Isopropylidenediphenol [bisphenol A]	Not Determined	<0.0098	<0.0098
Methyl Ethyl Ketone	<0.005	<0.015	<0.01
Methyl *tert*-butyl ether [MTBE]	Not Determined	<0.001	<0.001
Nitrobenzene	<0.01	<0.00198	<0.00599

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2018 and 2021 Sampling Results
OUTALL 012 - POND 7

N-Nitrosodiethylamine	<0.01	<0.00198	<0.00599
N-Nitroso-di-*n*-Butylamine	<0.01	<0.00198	<0.00599
Nonylphenol	Not Determined	<0.0694	<0.0694
Pentachlorobenzene	<0.01	<0.00198	<0.00599
Pentachlorophenol	<0.01	<0.00198	<0.00599
Phenanthrene	<0.01	<0.00198	<0.00599
Polychlorinated Biphenyls (PCBs) 2	<0.001	<0.0000986	<0.0005493
Pyridine	<0.01	<0.00397	<0.006985
1,2,4,5-Tetrachlorobenzene	<0.01	<0.00198	<0.00599
1,1,2,2-Tetrachloroethane	<0.005	<0.001	<0.003
Tetrachloroethylene	<0.005	<0.002	<0.0035
Toluene	<0.005	<0.002	<0.0035
1,1,1-Trichloroethane	<0.005	<0.001	<0.003
1,1,2-Trichloroethane	<0.005	<0.001	<0.003
Trichloroethylene	<0.005	<0.001	<0.003
2,4,5-Trichlorophenol	<0.01	<0.00198	<0.00599
TTHM (Total Trihalomethanes) (ug/L)	<10.0	<0.005	<5.0025
Vinyl Chloride	<0.005	<0.001	<0.003

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2018 and 2023 Sampling Results
OUTFALL 028 - POND K

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 028 C ☐ G ☒	Effluent Concentration (mg/L)		
Pollutant	11/27/2018	4/25/2023	Average
Flow (MGD)	0.75	0.75	0.75
BOD (5-day)	8.12	4.7	6.41
CBOD (5-day)	7.86	4.31	6.085
Chemical Oxygen Demand	56.4	23.5	39.95
Total Organic Carbon	14.90	11.40	13.15
Dissolved Oxygen	9.94	8.7	9.32
Ammonia Nitrogen	<1.0	<1.0	<1
Total Suspended Solids	8.63	24.2	16.415
Nitrate Nitrogen	0.21	0.122	0.166
Total Organic Nitrogen	2.2	<1.0	<1.6
Total Phosphorus	<0.05	0.08	<0.065
Oil and Grease	<5.05	<4.85	<4.95
Total Residual Chlorine	<0.01	0.03	<0.02
Total Dissolved Solids	3800	1640	2720
Sulfate	2150	1010	1580
Chloride	667	117	392
Fluoride	1.53	<0.02	<0.775
Total Alkalinity (mg/L as $CaCO_3$)	52.0	64	58
Temperature (°F)	63.86	68.72	66.29
pH (Standard Units; min/max)	7.37	7.05	7.21

Table 2 – Metals			
Outfall No.: 028 C ☐ G ☒	Effluent Concentration (µg/L)[1]		
Pollutant	11/27/2018	4/25/2023	Average
Aluminum, Total	97	746	421.5
Antimony, Total	5	<5	<5
Arsenic, Total	16	<0.5	<8.25
Barium, Total	49	40	44.5
Beryllium, Total	<0.5	<0.5	<0.5
Cadmium, Total	5	<1	<3
Chromium, Total	5	<3	<4
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<15.0	<3.0	<9
Copper, Total	<10	1	<5.5
Cyanide, Free	<20	<10	<15
Lead, Total	2	0.8	1.4
Mercury, Total	0.006	<0.005	<0.0055
Nickel, Total	10	3	6.5
Selenium, Total	36	9	22.5
Silver, Total	<2.0	<0.5	<1.25
Thallium, Total	<2.0	0.6	<1.3
Zinc, Total	<25	6	<15.5

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2018 and 2023 Sampling Results
OUTFALL 028 - POND K

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 028 [C ☐ G ☒]	Effluent Concentration (mg/L)[1]		
Pollutant	11/27/2018	4/25/2023	Average
Acrolein	Not Determined	<0.0007	<0.0007
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.01	<0.01	<0.01
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.01	<0.01	<0.01
Benzo(*a*)anthracene	<0.01	<0.005	<0.0075
Benzo(*a*)pyrene	<0.01	<0.005	<0.0075
Bis(2-chloroethyl)ether	<0.01	<0.01	<0.01
Bis(2-ethylhexyl) phthalate	<0.01	<0.01	<0.01
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.005	<0.0035
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.01	<0.005	<0.0075
Cresols	<0.01	<0.10	<0.055
1,2-Dibromoethane	<0.005	<0.005	<0.005
m-Dichlorobenzene	<0.01	<0.10	<0.055
o-Dichlorobenzene	<0.01	<0.01	<0.01
p-Dichlorobenzene	<0.01	<0.01	<0.01
3,3'-Dichlorobenzidine	<0.01	<0.005	<0.0075
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.01	<0.01	<0.01
Di-*n*-Butyl Phthalate	<0.01	<0.01	<0.01
Epichlorohydrin	Not Determined	<0.02	<0.02
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	Not Determined	<50.0	<50
Fluoride	1.53	<0.02	<0.775
Hexachlorobenzene	<0.01	<0.01	<0.01
Hexachlorobutadiene	<0.01	<0.01	<0.01

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 028 [C ☐ G ☒]	Effluent Concentration (mg/L)[1]		
Pollutant	11/27/2018	4/25/2023	Average
Hexachlorocyclopentadiene	<0.01	<0.01	<0.01
Hexachloroethane	<0.01	<0.01	<0.01
4,4'-Isopropylidenediphenol [bisphenol A]	Not Determined	<0.00976	<0.00976
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	Not Determined	<0.005	<0.005

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachment 1, 2018 and 2023 Sampling Results
OUTFALL 028 - POND K

Nitrobenzene	<0.01	<0.01	<0.01
N-Nitrosodiethylamine	<0.01	<0.01	<0.01
N-Nitroso-di-*n*-Butylamine	<0.01	<0.01	<0.01
Nonylphenol	Not Determined	<0.01	<0.01
Pentachlorobenzene	<0.01	<0.01	<0.01
Pentachlorophenol	<0.01	<0.005	<0.0075
Phenanthrene	<0.01	<0.01	<0.01
Polychlorinated Biphenyls (PCBs) [2]	<0.001	<0.0002	<0.0006
Pyridine	<0.01	<0.01	<0.01
1,2,4,5-Tetrachlorobenzene	<0.01	<0.10	<0.055
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.01	<0.01	<0.01
TTHM (Total Trihalomethanes)	<0.01	<0.04	<0.025
Vinyl Chloride	<0.005	<0.005	<0.005

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

P.O. Box 280, Jourdanton, Texas 78026 (830) 784-3411

SAN MIGUEL ELECTRIC COOPERATIVE, INC.

May 28, 2025

Via Certified Mail: 7021 2720 0002 5146 1790

Texas Commission on Environmental Quality
Wastewater Permitting Section (MC-148)
Water Quality Division
P.O. Box 13087
Austin, Texas 78711-3087

Subject: **San Miguel Lignite Mine,**
TPDES Permit No. WQ0002043000
Attachment 1 Analytical Testing Results
Outfall: 007

To Whom It May Concern:

Enclosed are the analytical results from two sampling events for Outfall 007, as required in Other Requirements, Section 19 of the TPDES Permit.

Please call me at (830) 784-3408 if you have any questions or need additional information.

Sincerely,

Nellie Frisbee

Nellie Frisbee
Permit Specialist

Attachment

CC: SMECI Electronic File

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachemnt 1, 2020 and 2024 Sampling Results
OUTFALL 007 - POND 23

Attachment 1			
Table 1 – Conventionals and Non-conventionals			
Outfall No.: 007 C ☐ G☒	**Effluent Concentration (mg/L)**		
Pollutant	**10/1/2020**	**7/10/2024**	**Average**
Flow (MGD)	1.8	1.8	1.8
BOD (5-day)	4.23	5.09	4.66
CBOD (5-day)	4.12	4.66	4.39
Chemical Oxygen Demand	72.1	91	81.55
Total Organic Carbon	8.38	12.80	10.59
Dissolved Oxygen	8.56	10	9.28
Ammonia Nitrogen	1.12	<1.0	<1.06
Total Suspended Solids	11.3	5.5	8.4
Nitrate Nitrogen	<0.1	0.271	<0.19
Total Organic Nitrogen	1.68	3.36	2.52
Total Phosphorus	2.48	<0.05	<1.27
Oil and Grease	<5.00	5.52	<5.26
Total Residual Chlorine	0.09	0.32	0.205
Total Dissolved Solids	9780	9730	9755
Sulfate	2920	1650	2285
Chloride	2290	5650	3970
Fluoride	<0.02	0.065	<0.043
Total Alkalinity (mg/L as $CaCO_3$)	56	164	110
Temperature (°F)	60.8	68	64.4
pH (Standard Units; min/max)	8.58	8.32	8.45

Table 2 – Metals			
Outfall No.: 007 C ☐ G☒	**Effluent Concentration (µg/L)**[1]		
Pollutant	**10/1/2020**	**7/10/2024**	**Average**
Aluminum, Total	70	39	54.5
Antimony, Total	<25	<5	<15
Arsenic, Total	6	3	4.5
Barium, Total	59	220	139.5
Beryllium, Total	<2	<0.5	<1.25
Cadmium, Total	<5	<1	<3
Chromium, Total	<15	<3	<9
Chromium, Hexavalent (mg/L)	<0.003	<0.003	<0.003
Chromium, Trivalent	<15.0	<3.0	<9
Copper, Total	<5	0.003	<2.5
Cyanide, Free	<10	<10	<10
Lead, Total	<2	0.8	<1.4
Mercury, Total	<0.005	0.00582	<0.005
Nickel, Total	9	4	6.5
Selenium, Total	15	<0.5	<7.8
Silver, Total	<2	<0.5	<1.25
Thallium, Total	<2	<0.5	<1.25
Zinc, Total	51	13	32

[1] Indicate units if different than µg/L.

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachemnt 1, 2020 and 2024 Sampling Results
OUTFALL 007 - POND 23

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 007 C ☐ G ☒	**Effluent Concentration (mg/L)[1]**		
Pollutant	**10/1/2020**	**7/10/2024**	Average
Acrolein	<0.001	<0.0007	<0.0009
Acrylonitrile	<0.005	<0.005	<0.005
Anthracene	<0.00197	<0.01	<0.006
Benzene	<0.005	<0.005	<0.005
Benzidine	<0.00492	<0.01	<0.007
Benzo(*a*)anthracene	<0.00197	<0.005	<0.003
Benzo(*a*)pyrene	<0.00197	<0.005	<0.003
Bis(2-chloroethyl)ether	<0.00197	<0.01	<0.006
Bis(2-ethylhexyl) phthalate	<0.00197	<0.01	<0.006
Bromodichloromethane	<0.005	<0.005	<0.005
Bromoform	<0.005	<0.005	<0.005
Carbon Tetrachloride	<0.002	<0.002	<0.002
Chlorobenzene	<0.005	<0.005	<0.005
Chlorodibromomethane	<0.005	<0.005	<0.005
Chloroform	<0.005	<0.005	<0.005
Chrysene	<0.00197	<0.005	<0.003
Cresols	<0.00197	<0.01	<0.006
1,2-Dibromoethane	<0.005	<0.005	<0.005
m- Dichlorobenzene	<0.005	<0.01	<0.008
o- Dichlorobenzene	<0.005	<0.01	<0.008
p-Dichlorobenzene	<0.005	<0.01	<0.008
3,3'-Dichlorobenzidine	<0.002	<0.005	<0.004
1,2-Dichloroethane	<0.005	<0.005	<0.005
1,1-Dichloroethylene	<0.005	<0.005	<0.005
Dichloromethane (Methylene Chloride)	<0.005	<0.005	<0.005
1,2-Dichloropropane	<0.005	<0.005	<0.005
1,3-Dichloropropylene	<0.005	<0.005	<0.005
2,4-Dimethylphenol	<0.00197	<0.01	<0.006
Di-*n*-Butyl Phthalate	<0.00393	<0.01	<0.007
Epichlorohydrin	<0.005	<0.02	<0.01
Ethylbenzene	<0.005	<0.005	<0.005
Ethylene Glycol	<50.0	<50.0	<50.0
Fluoride	<0.02	0.065	<0.04
Hexachlorobenzene	<0.00197	<0.005	<0.003
Hexachlorobutadiene	<0.00197	<0.01	<0.006

Table 3 – Toxic Pollutants with Water Quality Criteria			
Outfall No.: 007 C ☐ G ☒	**Effluent Concentration (mg/L)[1]**		
Pollutant	**10/1/2020**	**7/10/2024**	Average
Hexachlorocyclopentadiene	<0.00197	<0.01	<0.006
Hexachloroethane	<0.00197	<0.01	<0.006
4,4′-Isopropylidenediphenol [bisphenol A]	<0.00978	<0.0104	<0.01
Methyl Ethyl Ketone	<0.005	<0.005	<0.005
Methyl *tert*-butyl ether [MTBE]	<0.005	<0.005	<0.005
Nitrobenzene	<0.002	<0.01	<0.006
N-Nitrosodiethylamine	<0.002	<0.01	<0.006
N-Nitroso-di-*n*-Butylamine	<0.002	<0.01	<0.006
Nonylphenol	<0.0688	<0.05	<0.06
Pentachlorobenzene	<0.002	<0.01	<0.006

San Miguel Lignite Mine
TPDES Permit No. WQ0002043000
OTHER REQUIREMENTS: Attachemnt 1, 2020 and 2024 Sampling Results
OUTFALL 007 - POND 23

Pentachlorophenol	<0.002	<0.005	<0.004
Phenanthrene	<0.002	<0.01	<0.006
Polychlorinated Biphenyls (PCBs) 2	<0.0001	<0.0002	<0.0002
Pyridine	<0.00393	<0.01	<0.007
1,2,4,5-Tetrachlorobenzene	<0.00197	<0.01	<0.003
1,1,2,2-Tetrachloroethane	<0.005	<0.005	<0.005
Tetrachloroethylene	<0.005	<0.005	<0.005
Toluene	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	<0.005	<0.005	<0.005
1,1,2-Trichloroethane	<0.005	<0.005	<0.005
Trichloroethylene	<0.005	<0.005	<0.005
2,4,5-Trichlorophenol	<0.00197	<0.01	<0.003
TTHM (Total Trihalomethanes) (ug/L)	<10.0	<10.0	<10.0
Vinyl Chloride	<0.005	<0.002	<0.004

[1] Units are indicated when different than µg/L.

[2] Total of detects for PCB-1242, PCB-1254, PCB-1221, PCB-1232, PCB-1248, PCB-1260, PCB-1016. If all values are non-detects, enter the highest non-detect preceded by a "<" symbol.

EXHIBIT SPIF-A

Discharge Routes

DISCHARGE ROUTE DESCRIPTION

Via outfalls 001, 002, 003, 004, 005, 006 to unnamed tributaries, thence Caballos Creek, thence Souse Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfall 007 to unnamed tributary, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfall 008 to unnamed tributary, thence Metate Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfall 009 to unnamed tributary, thence Christine Creek, thence Metate Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfall 010 to Christine Creek, thence Metate Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfalls 011, 012, 013, 014, 015, 016, 017, 018, 019 to unnamed tributaries, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfalls 020, 021, 022, 023 to unnamed tributaries, thence Metate Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfalls 024, 025, 026, 027, 028 to unnamed tributaries, thence Souse Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfalls 029, 030, 031 to unnamed tributaries, thence Metate Creek, thence La Parita Creek, thence Lower Atascosa River Segment 2107.

Via outfalls 032, 033 unnamed tributaries, thence Lower Atascosa River Segment 2107.

Via outfalls 034, 035 to unnamed ditch, then unnamed tributaries, thence Lower Atascosa River Segment 2107.

Via outfall 050 to Hog Creek, thence La Jarita Creek, thence San Miguel Creek Segment 2108.

Via outfall 051 to unnamed tributary, thence La Jarita Creek, thence San Miguel Creek Segment 2108.

Via outfall 052 to unnamed ditch, thence La Jarita Creek, thence San Miguel Creek Segment 2108.

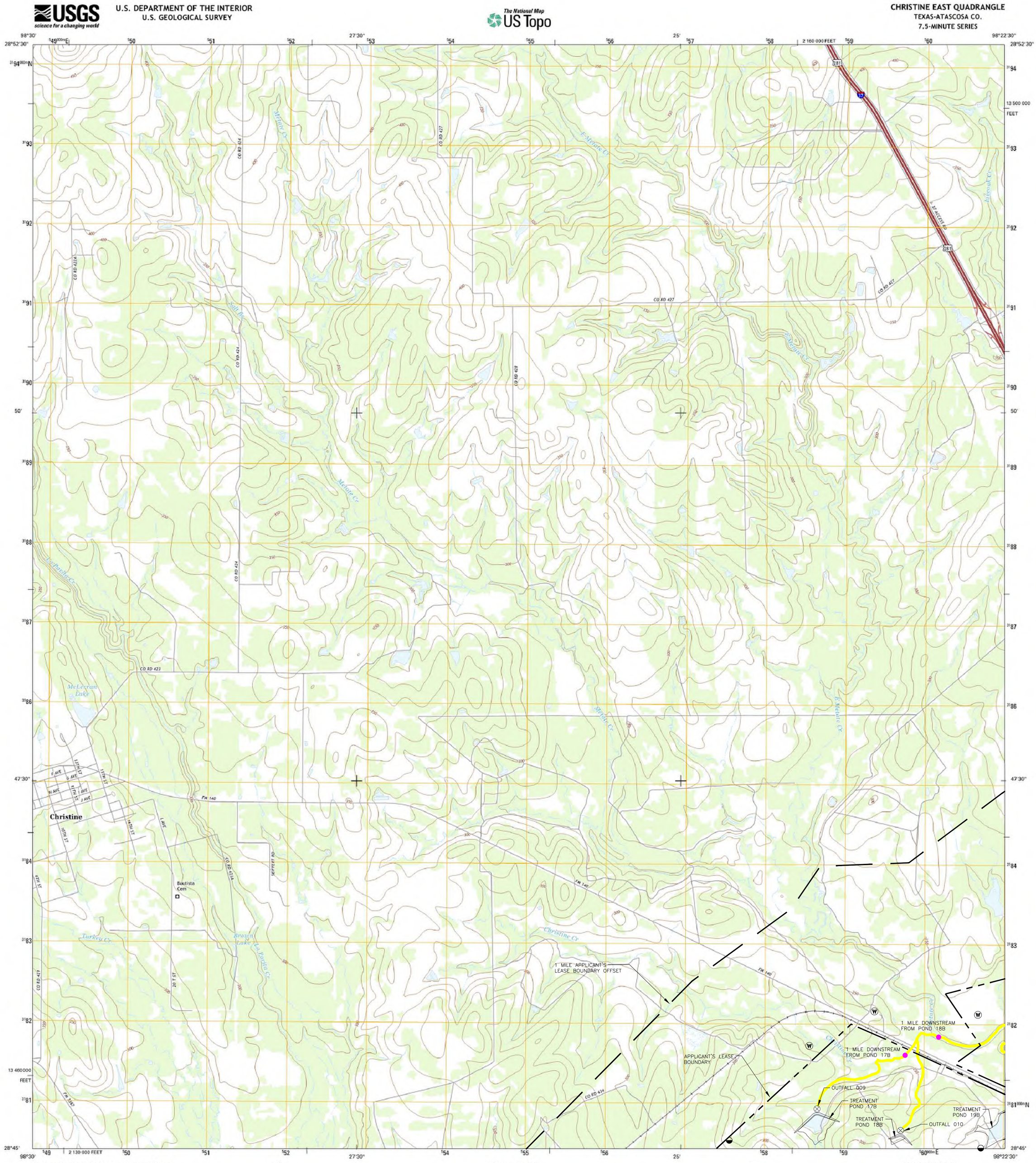
Via outfall 053 to unnamed tributary, thence San Miguel Creek Segment 2108.

Via outfall 054 to unnamed tributary/ditch, thence San Miguel Creek Segment 2108.

EXHIBIT SPIF-B

USGS Maps

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

N
0 1000 2000 4000
SCALE: 1" = 2000'

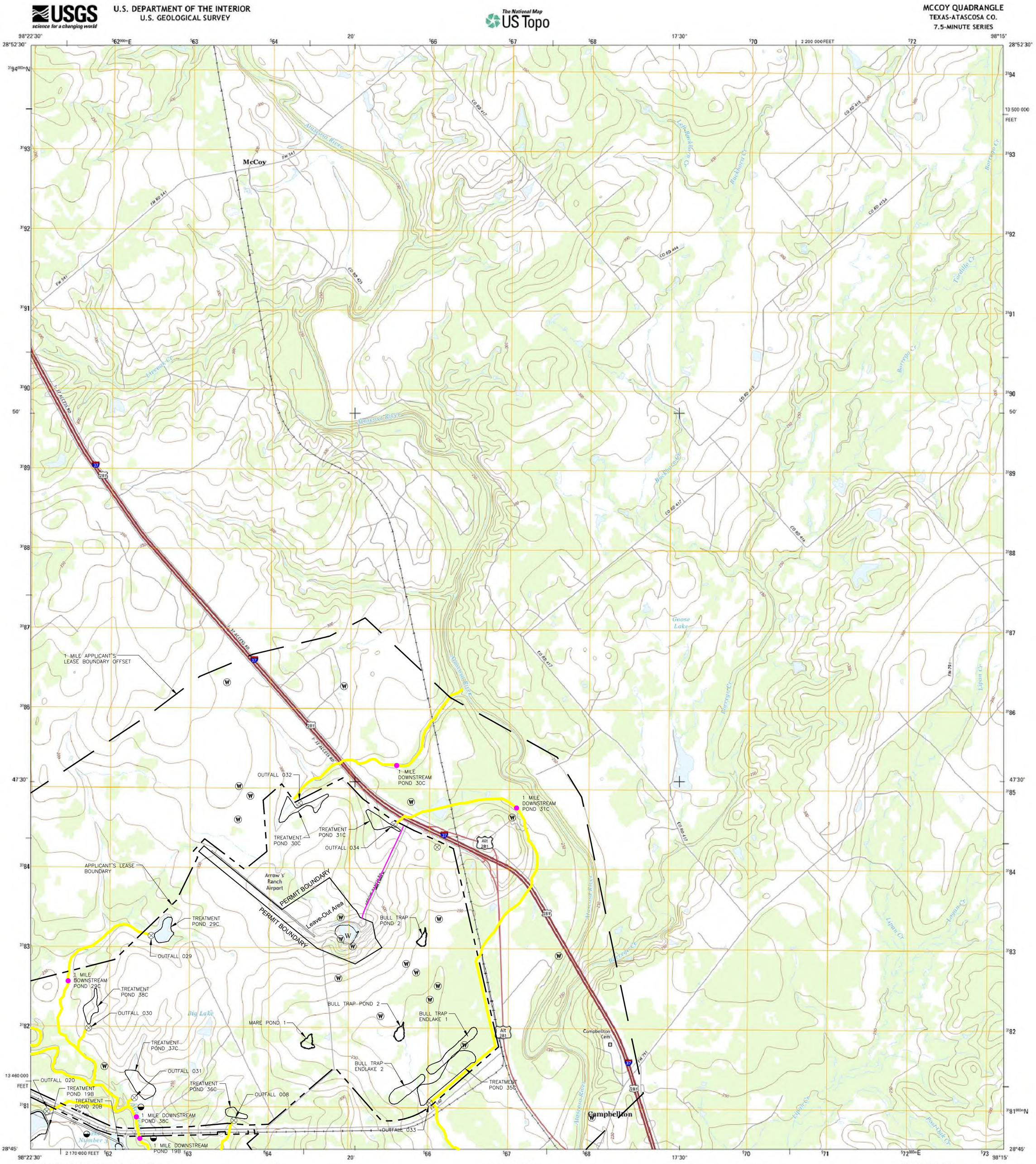
SPIF MAP
USGS QUADRANGLE MAP
CHRISTINE EAST, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads.....U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015
Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

1 Pleasanton
2 Leal
3 Three Oaks
4 Christine East
5 Pashing
6 Caballos Creek
7 Whitsett
8 Peggy
ADJOINING QUADRANGLES

MCCOY, TX
2016

7643016397252

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

SPIF MAP
USGS QUADRANGLE MAP
McCOY, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

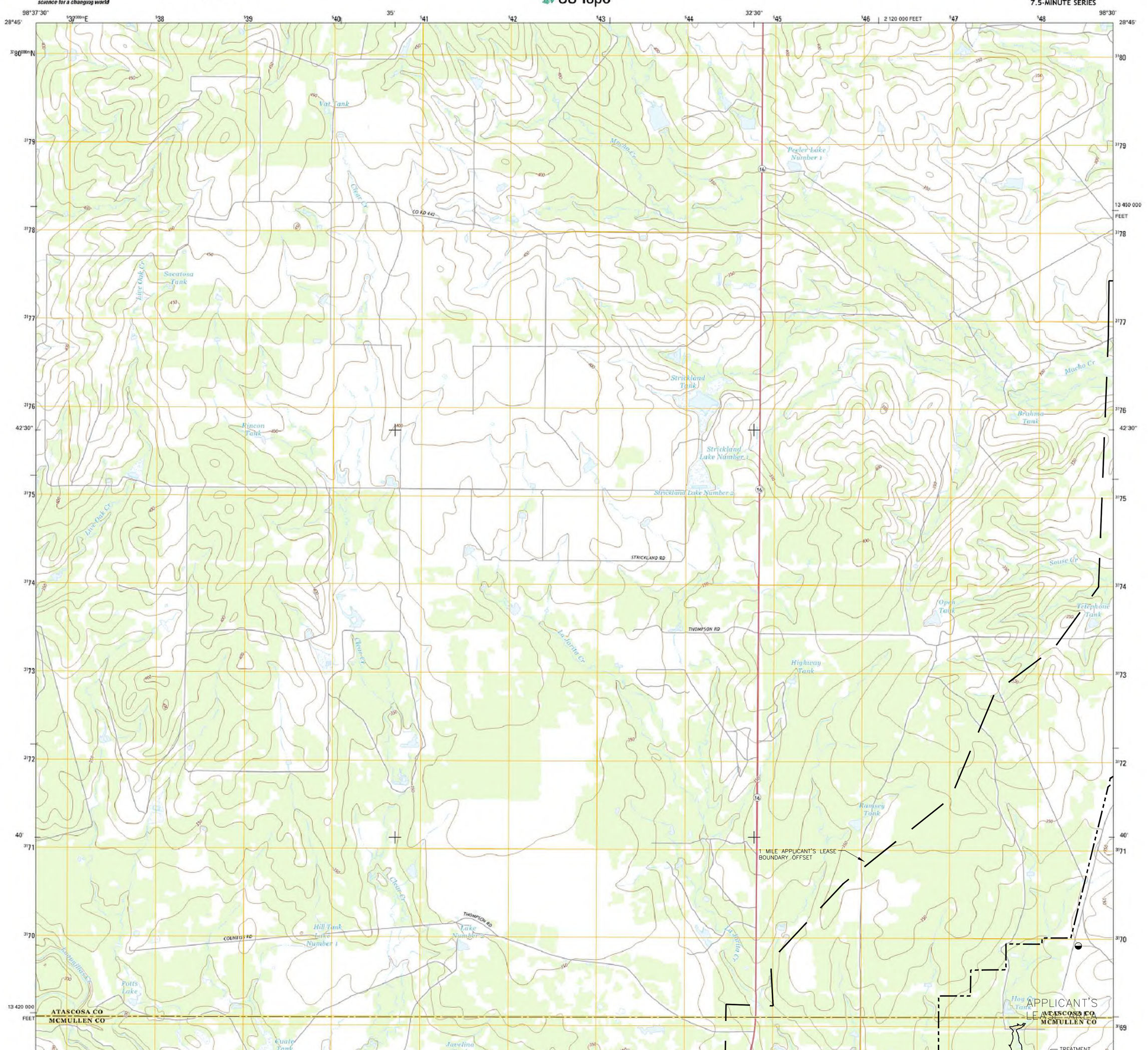
JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CROSS NE QUADRANGLE
TEXAS
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

SCALE 1:24 000

1 0.5 0 KILOMETERS 1 2
1000 500 0 METERS 1000 2000
1 0.5 0 1
MILES
1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000
FEET

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ROAD CLASSIFICATION
Expressway — Local Connector
Secondary Hwy — Local Road
Ramp — 4WD
Interstate Route — US Route — State Route

1	2	3
4		5
6	7	8

1 Charlotte
2 Christine West
3 Christine East
4 San Miguel Ranch
5 Caballos Creek
6 Pettle Creek
7 Cross
8 Crowther
ADJOINING QUADRANGLES

CROSS NE, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

SPIF MAP
USGS QUADRANGLE MAP
CROSS NE, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CABALLOS CREEK QUADRANGLE
TEXAS
7.5-MINUTE SERIES

98°30' 28°45' 27'30" 25' 98°22'30" 28°37'30"

2 160 000 FEET 2 130 000 FEET

13 450 000 FEET 13 420 000 FEET

ATASCOSA CO
MCMULLEN CO

APPLICANT'S LEASE AREA
SAN MIGUEL POWER PLANT SITE
APPLICANT'S PROPERTY BOUNDARY
APPLICANT'S LEASE BOUNDARY
1 MILE APPLICANT'S LEASE BOUNDARY OFFSET

TREATMENT POND M
TREATMENT POND 14B
HOMESTEAD POND
PUPIL POND
DOS RIOS POND
TREATMENT POND 27B
ACHILLES POND
ALLIGATOR Lake Number 1 POND
TREATMENT POND 9B
TREATMENT POND 23B
POND B1
POND L
POND O
POND A-2
POND A1
POND 1
TREATMENT POND I
TREATMENT POND J
TREATMENT POND 11
TREATMENT POND 10
TREATMENT POND H
TREATMENT POND 7
TREATMENT POND 6
TREATMENT POND G
TREATMENT POND 5
TREATMENT POND 26A
TREATMENT POND 25A
TREATMENT POND K
TREATMENT POND F
TREATMENT POND D
TREATMENT POND E
TREATMENT POND 3
TREATMENT POND 2
TREATMENT POND B
TREATMENT POND A
TREATMENT POND 13E
TREATMENT POND 12E
EVAPORATION POND C
SUBSTATION
TRUCK WASH
OFFICE
MINE MAINTENANCE FACILITIES
FUEL ISLAND
BUCKET REPAIR
P-12-1
DITCH A-1
WETLAND AW-1
WETLAND E1

OUTFALL 001
OUTFALL 002
OUTFALL 003
OUTFALL 004
OUTFALL 005
OUTFALL 006
OUTFALL 007
OUTFALL 011
OUTFALL 012
OUTFALL 013
OUTFALL 014
OUTFALL 015
OUTFALL 016
OUTFALL 017
OUTFALL 018
OUTFALL 019
OUTFALL 024
OUTFALL 025
OUTFALL 026
OUTFALL 027
OUTFALL 028

1 MILE DOWNSTREAM FROM POND 6 & H
1 MILE DOWNSTREAM FROM POND 7 & I
1 MILE DOWNSTREAM FROM POND J
1 MILE DOWNSTREAM FROM POND 5 & G
1 MILE DOWNSTREAM FROM POND 2 & F
1 MILE DOWNSTREAM FROM POND K
1 MILE DOWNSTREAM FROM POND 3, D & E
1 MILE DOWNSTREAM FROM POND A
1 MILE DOWNSTREAM FROM POND B
1 MILE DOWNSTREAM FROM POND 13E
1 MILE DOWNSTREAM FROM POND 9B PUMPED
1 MILE DOWNSTREAM FROM POND 10
1 MILE DOWNSTREAM FROM POND 9B GRAVITY
1 MILE DOWNSTREAM FROM POND 11

Turkey Cr
La Parita Cr
Lake Number 1
Lake Number 2
Peeler Lake
Willow Tank
Government Tank
Lello Tank
Lewis Tank
Mustang Br
Encinitian Br
Brown Tank
74 Ranch Airport
FM 791
POENISCH RD
MRS SMEER'S RD

SCALE 1:24 000

KILOMETERS 0 0.5 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads..... U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET
0° 14' WEST
4° 27' 39 MILS

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Christine West
2 Christine East
3 McCoy
4 Cross NE
5 Whitsett
6 Cross
7 Crowther
8 Willow Hollow Tank

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

CABALLOS CREEK, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

SPIF MAP
USGS QUADRANGLE MAP
CABALLOS CREEK, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

WHITSETT QUADRANGLE
TEXAS
7.5-MINUTE SERIES

TREATMENT POND 20B
OUTFALL 021
1 MILE DOWNSTREAM FROM POND 37C
1 MILE DOWNSTREAM FROM POND 35C
BEAN POND
PORKCHOP POND
1 MILE DOWNSTREAM FROM POND 36C
1 MILE DOWNSTREAM FROM POND 20B
TREATMENT POND 21B
APPLICANT'S LEASE BOUNDARY
OUTFALL 022
1 MILE DOWNSTREAM FROM POND 21B
TREATMENT POND 22B
OUTFALL 023
1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
1 MILE DOWNSTREAM FROM POND 22B
1 MILE DOWNSTREAM FROM POND 23B

Campbellton
Lipan Hills
Tom Ranch Lake Number 2
Tom Ranch Lake Number 3
Whitsett
Merriman Hollow
ATASCOSA CO
LIVE OAK CO
MCMULLEN CO

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads.....U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015
Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

ADJOINING QUADRANGLES
1 Christine East
2 McCoy
3 Fashing
4 Caballos Creek
5 Peggy
6 Crowther
7 Willow Hollow Tank
8 Comanche Hills

WHITSETT, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

SPIF MAP
USGS QUADRANGLE MAP
WHITSETT, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

USGS science for a changing world

The National Map US Topo

CROSS QUADRANGLE
TEXAS-MCMULLEN CO.
7.5-MINUTE SERIES

1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
APPLICANT'S LEASE BOUNDARY
DITCH/SWALE
MINING LIMITS
HAUL ROAD
OUTFALL 51
OUTFALL 52
OUTFALL 53
OUTFALL 54
TREATMENT POND G-1
TREATMENT POND G-2
TREATMENT POND F-1
TREATMENT POND H-1
1 MILE DOWNSTREAM FROM POND 15E
1 MILE DOWNSTREAM FROM POND G-1
1 MILE DOWNSTREAM FROM POND F-1
1 MILE DOWNSTREAM FROM POND G-2
1 MILE DOWNSTREAM FROM POND H-1
362313
7828306
7828201
349331
304583
7828302
252119
7828611
7828602
7828603
7828501
7828610
RIVER ST
EXXON RD
HENRY CROW
FRANKLIN RANCH RD
FRANKLIN RANCH
TAYLOR RD
HOARK RD
SMAIN RD
CINCO MILAS RD
GREEN FRANKLIN RD
FM 3445
Live Oak Cr
San Miguel Cr
Clear Cr
Bill Walker Cr
Cottonwood Cr
Salt Br
Gubel Trust Lake Number 1
Wheeler Lake Number 1
Kamp Lake
Drake Hollow
Lone Star Tank
Calliche Tank
Indian Tank
Birthday Tank
Beulah Tank
Rocking Chair Tank
Cross Cem

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011.
A metadata file associated with this product is draft version 0.6.19

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	May 2014
Roads	U.S. Census Bureau,	2014 - 2015
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2008
Boundaries	Multiple sources; see metadata file	1972 - 2015
Wetlands	FWS National Wetlands Inventory	1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
NS
Grid Zone Designation
14R

ROAD CLASSIFICATION
Expressway, Secondary Hwy, Ramp, Local Connector, Local Road, 4WD
Interstate Route, US Route, State Route

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 San Miguel Ranch
2 Cross NE
3 Caballos Creek
4 Pettle Creek
5 Crowther
6 Rockaway Creek
7 Tilden
8 Callihan NW

CROSS, TX
2016

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

SPIF MAP
USGS QUADRANGLE MAP
CROSS, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708

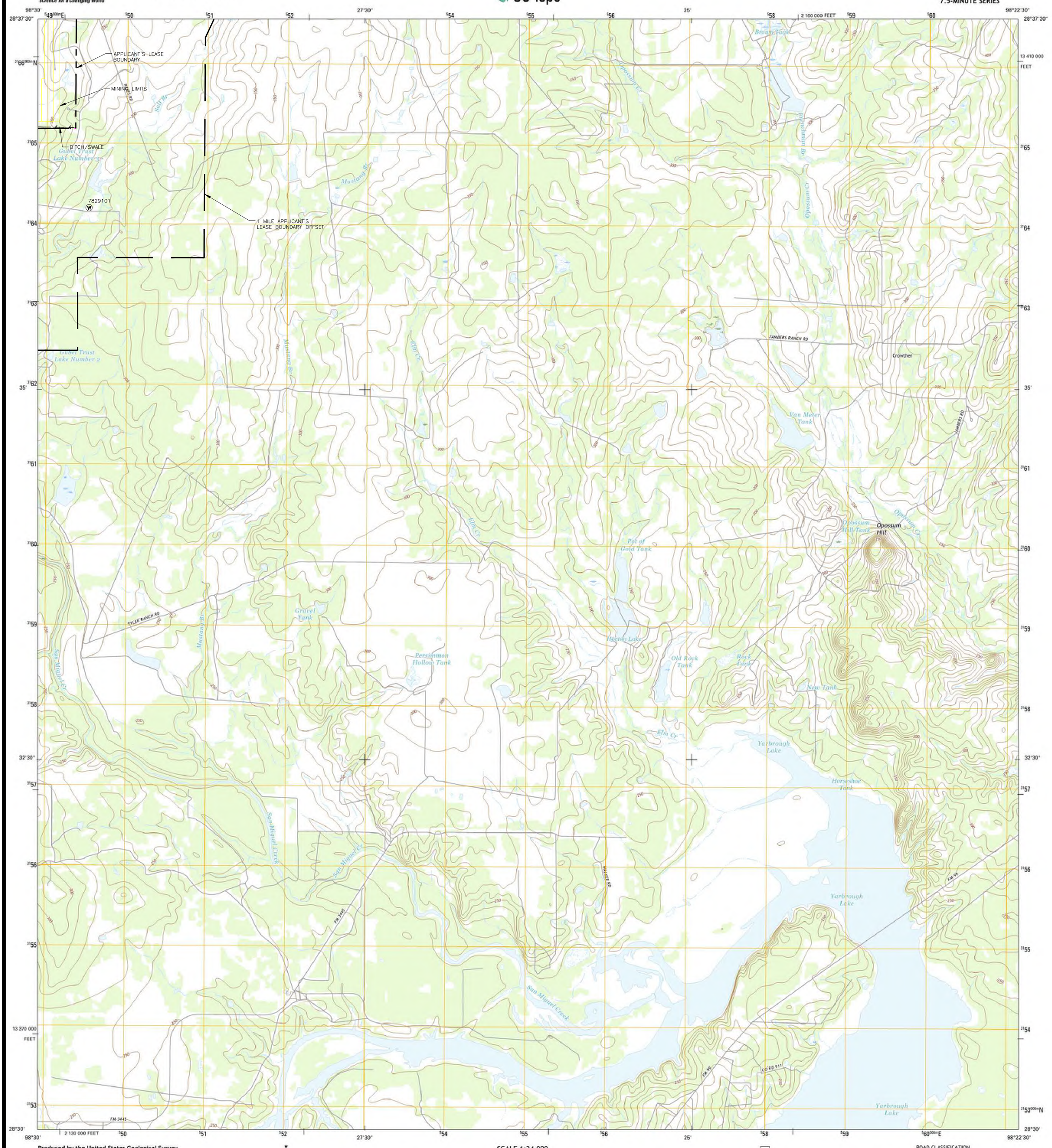
NOTE: PERMITTED BOUNDARY CONTINUES OFF SHEET

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

CROWTHER QUADRANGLE
TEXAS-MCMULLEN CO.
7.5-MINUTE SERIES



Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 14R
10 000-foot ticks: Texas Coordinate System of 1983 (south central zone)

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery.....NAIP, May 2014
Roads.....U.S. Census Bureau, 2014 - 2015
Names.....GNIS, 2015
Hydrography.....National Hydrography Dataset, 2014
Contours.....National Elevation Dataset, 2008
Boundaries.....Multiple sources; see metadata file 1972 - 2015

Wetlands.....FWS National Wetlands Inventory 1977 - 2014

UTM GRID AND 2016 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

U.S. National Grid
100,000-m Square ID
RS
Grid Zone Designation
14R

SCALE 1:24 000

KILOMETERS 1 0.5 0 1 2
METERS 1000 500 0 1000 2000
MILES 1 0.5 0 1
FEET 1000 0 1000 2000 3000 4000 5000 6000 7000 8000 9000 10000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geospatial Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.6.19

TEXAS
QUADRANGLE LOCATION

ADJOINING QUADRANGLES
1 Cross NE
2 Caballos Creek
3 Whitsett
4 Cross
5 Willow Hollow Tank
6 Tilden
7 Calliham NW
8 Calliham

ROAD CLASSIFICATION
Expressway
Secondary Hwy
Ramp
Local Connector
Local Road
4WD
Interstate Route
US Route
State Route

CROWTHER, TX
2016

NSN. 7643016395726
NGA REF NO. USGSX24K109O1

LEGEND

- HIGHLIGHTED DISCHARGE ROUTE, EXTENDING 3 MILES FROM OUTFALL
- APPROXIMATE APPLICANT'S LEASE BOUNDARY
- 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET
- HAUL ROAD
- PROPOSED MINING LIMITS
- DITCH/SWALE
- DISCHARGE POINT (OUTFALL)
- WATER WELL
- MONITORING WELL

NOTES:

NO SPRINGS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO PUBLIC SUPPLY WELLS ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SURFACE WATER SUPPLY INTAKES ARE KNOWN TO EXIST WITHIN THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO WATER TREATMENT PLANTS ARE KNOW TO EXIST WITHIN THE THE LIMITS OF THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO POTABLE WATER STORAGE FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

NO SEWAGE TREATMENT FACILITIES ARE KNOWN TO EXIST WITHIN THE 1 MILE APPLICANT'S LEASE BOUNDARY OFFSET.

BASE DRAWING PROVIDED BY

GODSEY ENGINEERING, BOERNE, TEXAS
WESTWARD ENVIRONMENTAL, BOERNE, TEXAS

N
0 1000 2000 4000
SCALE: 1" = 2000'

SPIF MAP
USGS QUADRANGLE MAP
CROWTHER, TEXAS

SMECI PERMIT APPLICATION

PROJECT NO.	DESIGNED BY:
FILE NO:	DRAWN BY:
DATE: 30 OCTOBER 2019	CHECKED BY:
SCALE: AS NOTED	

JAMES MIERTSCHIN & ASSOCIATES, INC
ENVIRONMENTAL ENGINEERING
TX REG. # F-2458
P.O. Box 162305 Austin, Texas 78716-2305
Phone (512) 327-2708