

From: Elliott Inge

Sent: Monday, September 9, 2024 3:41 PM

To: nicole.tilley@deq.virginia.gov

Cc: Clarke Gibson <cgibson@region2000.org>; Larry Hall <LHall@region2000.org>; Dick, Bob <bdick@scsengineers.com>; bking@scsengineers.com

Subject: LIVESTOCK RD LANDFILL FACILITY FIRE

Good afternoon Nicole,

The Region 2000 Regional Landfill-Livestock Road Facility (SWP610) wishes to provide DEQ a 24 hour notification of a landfill fire at the landfill (361 Livestock Road, Rustburg).

Landfill staff noticed the fire at approximately 1.00 pm and notified management. The Rustburg Fire department was notified, and arrived at 1.30 pm. The fire occurred on the south east slope of Phase 4. Landfill staff respond immediately with a water truck, and begin saturating the smoking waste. The smoking waste was located below the surface. It was excavated, spread out on clean soil, and saturated with water. The excavated area was saturated with water, and the smoking ceased at 3.00 pm. The affected area was approximately 20' x 15' x 10' deep.

This email is intended to meet the 24 hour verbal notification requirements.

A 5 day written notification will be submitted.

Please feel free to contact us with any questions or comments.

Thank you

Robert

*Elliott L Inge*

Environmental Compliance and Safety Manager

Region2000 Services Authority

(434) 455-6078

EInge@Region2000.org

Region 2000 Regional Landfill-Livestock Road Facility  
361 Livestock Road  
Rustburg, Va 24588  
434 455 6078

September 12, 2024

Nicole Tilley  
Solid Waste Compliance Inspector  
Blue Ridge Regional Office, Land Protection & Revitalization Division  
Virginia Department of Environmental Quality  
901 Russell Drive, Salem, VA 24153  
540-597-6585  
[nicole.tilley@deq.virginia.gov](mailto:nicole.tilley@deq.virginia.gov)

**Subject:** Region 2000 Regional Landfill – Livestock Road Facility  
Solid Waste Permit (SWP) 610  
September 10, 2024, Landfill Fire

Dear Ms. Tilley,

Region 2000 Services Authority wishes to provide DEQ with the following **“5 day Written Notification”** of a fire at the Region 2000 Regional Landfill-Livestock Road Facility (SWP610), which occurred on Tuesday, September 10, 2024, at approximately 1.00pm.

A **24-hour notification** was made by email on Tuesday, September 10, 2024, at 3.41pm.

VSWMR Permittee Reporting Requirements (9VAC20-81-530. C.3) require the following points be covered in the **5-day written submission**.

**Description of the circumstances and it’s cause**

*On Tuesday, September 10, 2024, at 1.09pm, landfill staff noticed smoke at ground level on the southeast end of Phase 4. Landfill staff investigated, and found a small sink hole, with a small fire coming out of the ground. Office staff were notified, and a call was placed to Campbell County Public Safety, and the Fire Department arrived at 1.30pm.*

*Landfill staff immediately mobilized a water truck, and began saturating the burning, smoking waste. Once the fire department arrived, a track dozer and excavator were utilized to excavate the smoking waste. The waste was spread out onto clean soil and saturated with water. The excavated area was saturated with water. The affected*

*area was approximately 16' x 20' x 16' deep. The smoking ceased at 3.00pm. The excavated area was filled with soil. The cause of the fire has not been determined.*

**The period of the occurrence**

*Tuesday, September 10, 2024, 1.09pm----Tuesday, September 10, 2024, 2.47pm.*

**The time the circumstance was corrected**

*Tuesday, September 10, 2024, 2.47pm*

**Steps taken to reduce, eliminate and prevent recurrence**

*Region 2000 Services Authority maintains a Fire Control Plan and conducts annual employee training and refresher training as needed. Additionally, we monitor incoming loads for potential hot loads, or materials which could cause a fire. Landfill operators visually observe the trash and watch for unauthorized waste as it is moved and compacted at the active fill area. Unauthorized Waste training is performed annually, with refresher courses as needed.*

Please feel free to contact us at 434 455 6078 or [einge@region2000.org](mailto:einge@region2000.org) with any additional questions or comments.

Thank you,

Robert Arthur (retired)



Environmental Compliance & Safety



*Commonwealth of Virginia*

**VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY**

www.deq.virginia.gov

Travis A. Voyles  
Secretary of Natural and Historic Resources

Michael S. Rolband, PE, PWD, PWS Emeritus  
Director

September 25, 2024

VIA ELECTRONIC MAIL

Clarke Gibson  
Director of Solid Waste  
Region 2000 Service Authority  
361 Livestock Road  
Rustburg, Virginia 24588  
[cgibson@region2000.org](mailto:cgibson@region2000.org)

**NO DEFICIENCY LETTER**

Subject: Region 2000 Regional Landfill – Livestock Road Facility  
Solid Waste Permit (SWP) 610

Dear Mr. Gibson,

On September 18, 2024, the Virginia Department of Environmental Quality Blue Ridge Regional Office staff conducted a compliance inspection of the solid waste management facility operating under SWP610. During this inspection, the facility was evaluated for compliance with the Virginia Waste Management Act, Va. Code § 10.1-1400 *et seq.* (Act), the Virginia Solid Waste Management Regulations, 9 VAC 20-81-10 *et seq.* (Regulations), and SWP610.

During the inspection, no apparent violations of the Act, Regulations, or SWP610 were observed. A copy of the inspection checklist is enclosed.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink that reads "Nicole Tilley".

Nicole Tilley, Solid Waste Compliance Inspector  
Virginia Department of Environmental Quality  
(540) 597-6585 (Direct)  
[nicole.tilley@deq.virginia.gov](mailto:nicole.tilley@deq.virginia.gov)

Region 2000 Regional Landfill – Livestock Road Facility – SWP610  
September 25, 2024  
Page 2 of 2

Blue Ridge Regional Office  
901 Russell Drive, Salem, Virginia 24501  
(540) 562-6700 (Office)

Attachment: Compliance Inspection Report

CC: *(via email)*  
Elliott Inge, Environmental Compliance and Safety Manager, [eing@region2000.org](mailto:eing@region2000.org)  
Nichole Herschler, DEQ BRRO Land Protection Program Manager,  
[nichole.herschler@deq.virginia.gov](mailto:nichole.herschler@deq.virginia.gov)  
ECM – SWP610



# Compliance Inspection Report

## Inspection Summary

**Facility:** Region 2000 Regional Landfill - Livestock Rd Facil

**Permit:** SWP610

**Region:** Blue Ridge

**Inspection Type:** Compliance Evaluation Inspection

**Facility Staff:** Elliot Inge, Environmental Compliance and Safety Manager

Robert Arthur, Interim Environmental Compliance and Safety Manager

**Inspector:** Nicole Tilley

**Inspection Date:** 9/18/2024

**Approximate Arrival Time:** 11:00 a.m.

**Inspection Method:** Unannounced

**Exit Interview:** Yes

**Weather Conditions:** The weather was rainy and cloudy with temperatures averaging 70F.

**Comments:** DEQ conducted an unannounced focused inspection in response to a fire that occurred on September 10, 2024, and a complaint that was received on September 17, 2024.

## Sanitary Landfill (Active)

Reference	Description	SL	Result
<b>Compliance Area: Operator Information</b>			
10.1-1408.1	Disclosure Statement	I	
10.1-1408.2	Operator Certification	II	
<b>Compliance Area: Recordkeeping, Reporting &amp; Permit</b>			
20-81-80	Waste Assessment Program	II	
20-81-100.B	Compliance with the facility's permit	II	
20-81-100.E	Unauthorized waste program and inspection	II	
20-81-140.B.16	Facility self-inspections	I	
20-81-140.B.17	Record maintained of waste received and processed	I	
20-81-485	Operations Manual	II	
20-81-530	Permittee recordkeeping and reporting	II	✓
<b>Compliance Area: Design, Construction &amp; Operation</b>			
20-81-130	Facility design / construction	I	
20-81-140.B.1,4	Safety and fire control	II	
20-81-140.B.6	Pollutant discharge	III	
20-81-140.B.7	Stormwater control system maintenance	II	
20-81-140.B.8,14-15	Facility operation, maintenance, and training	II	
20-81-140.B.9-13	Hazard and nuisance control	I	
20-81-140.C	Compaction and cover	I	✓
20-81-610-660	Special Waste	II	
<b>Compliance Area: Closure &amp; Post-Closure Care</b>			
20-81-160	Closure requirements	II	
20-81-170	Post-closure care requirements	II	
<b>Compliance Area: Decomposition Gas Control</b>			
20-81-200.A,B,E	Decomposition gas concentrations, monitoring & recordkeeping	II	
20-81-200.C	Decomposition gas-remediation	III	
20-81-200.D	Decomposition gas-odor management	I	
<b>Compliance Area: Leachate Control</b>			
20-81-210	Leachate control	II	
<b>Compliance Area: Groundwater Monitoring</b>			
20-81-250	Groundwater monitoring program	II	
20-81-260	Corrective action program	II	

**Compliance Area: Landfill Mining**

20-81-385 & 395	Landfill Mining	II
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SL = Severity Level      ✓ = In Compliance      X = Alleged Violation      N/A = Not Applicable      Blank = Not Inspected

**General Comments**

Reference	Comments
20-81-530	<p>Permittee recordkeeping and reporting - -</p> <p>On September 10, 2024, a fire occurred at the landfill. A verbal 24-hour notification was made on September 10, 2024. A written notification was provided on September 12, 2024, within 5-days of the event.</p> <p>The written notification stated that facility personnel noticed smoke at ground level on the southeastern side slope of the Phae IV landfill. Facility personnel discovered a small sink hole with a small fire coming out of the ground through the intermediated soil cover. Facility personnel immediately mobilized a water truck and began saturating the fire. Campbell County Public Safety was notified, and the Fire Department arrived. Once the fire department was on-site, facility personnel began to excavate an area approximately 16'x20'x16' deep and removed the waste that was on fire. The waste was spread out on the intermediate cover within the liner boundary and saturated with water. The excavated area was also saturated with water and filled back in with soil. Once the fire was completely extinguished, the waste was placed in the working face under daily soil cover.</p> <p>The cause of the fire is unknown. The Region 2000 Service Authority maintains a Fire Control Plan and conducts annual employee training for fires and unauthorized waste.</p>
20-81-140.C	<p>Compaction and cover - -</p> <p>DEQ inspected the southeastern side slope of the Phase IV landfill. Facility personnel had applied soil in the hole where the fire had occurred. Sufficient soil cover was applied, and no solid waste was exposed.</p>

**Disclosure Statement Details**

Key Personnel	Title
Alexander Brebner	Executive Director
Clarke W. Gibson	Director of Solid Waste
Elliott L. Inge	Environmental Technician
Larry P. Hall	Operations Manager

Disclosure Statement Last Updated: 9/1/2022

**Waste Management Facility Operators**

Licensed Operator	License #	Expiration Date
Clarke Gibson	4605003027	11/30/2023
Elliott Inge	4605002579	7/31/2025
Larry P. Hall	4605002033	12/31/2024
Shain R. Greenawalt	4605003764	7/31/2026

PLEASE advise the Regional Office within 10 calendar days if any information noted in this report is incorrect, if you have taken appropriate action to meet compliance, or if there is other information that the department should consider regarding any alleged violations.

PLEASE be advised that this report is not an agency proceeding or determination which may be considered a case decision under the Administrative Process Act (VA Code 2.2-4000 et seq). If informal discussions do not lead to a satisfactory conclusion on the contents of this report, you may request in writing that DEQ take all necessary steps to issue a final decision or fact finding under the APA on whether or not a violation has occurred.

September 11, 2024  
File No. 02195001.07-6

Clarke W. Gibson, P.E.  
Region 2000 Services Authority  
Solid Waste Division Director

Subject: Subsurface Oxidation Event Investigation  
Region 2000 Regional Landfill - Livestock Road Facility – Rustburg, VA

Dear Mr. Gibson:

SCS Engineers (SCS) is providing you with the results of a Subsurface Oxidation (SSO) event investigation at the Region 2000 Regional Landfill – Livestock Road Facility that initially took place on September 9, 2024. The Region 2000 Services Authority contacted the Campbell County Fire Department prior to contacting SCS Engineers on 9/9/24. SCS personnel mobilized to the Facility on 9/10/24 to perform site reconnaissance and monitoring activities.

SCS understands that the Campbell County Fire Department (CCFD) arrived to extinguish a landfill fire adjacent to well EW-31 during the afternoon of 9/9/24. Region 2000 began excavating a smoldering area representing visual and olfactory evidence of smoke located southeast of landfill gas well EW-31. Region 2000 contacted SCS shortly after commencing excavation activities in concert with the CCFD dosing the smoldering area with water. The Authority excavated and hauled charred areas of waste to the active workface. SCS instructed the Authority to shutdown the LFG Collection System and air compressor to cut off oxygen intrusion in the smoldering area. SCS also instructed the Authority to cease excavation of the smoldering area as it would allow additional oxygen into the SSO area.

On 9/10/24, SCS personnel mobilized to the site to meet with Authority staff and investigate and perform monitoring around the SSO area. SCS recorded the subsurface LFG composition (i.e., concentrations of methane, carbon dioxide, oxygen, and balance gas) and pressure using the Authority's Elkins Envision Gas Analyzer at two LFG wells, EW-30 and EW-31, and two leachate cleanouts, LC-22 and LC-24. SCS noticed slight visual and olfactory evidence of charred in the excavated area. Methane concentrations ranged from 57.0 in EW-30 to 58.6 percent in EW-31 under positive pressure with the LFG Collection System off. Please refer to **Exhibit 1** for LFG composition data for the wellfield components.

The Authority cleaned up residual waste around the perimeter of the excavated area. SCS observed that the air and forcemain was dented, but not punctured during excavation activities and should be repaired. SCS isolated two 8-inch LFG valves, one at the southeast tie-in to Phase III, the other at the northeast corner of Phase IV, thus isolating the south end of Phase IV LFG System. The Authority began filling the excavation area with clean soil compacting every few feet. The Authority restarted the compressor and the blower/flare station. There was no additional smoldering after startup activities. SCS turned off wells EW-30 and EW-31, and nearby shallow horizontal collectors, HC-03 and HC-08 before opening the two 8-inch LFG isolation valves to bring the remainder of the LFG System under vacuum. SCS O&M has been contacted to make airline and forcemain repairs adjacent to well EW-31. The SSO area has been isolated in the SE corner of Phase IV. The Authority will continue monitoring adjacent wells to verify the SSO Area is neutralized from spreading further. Below are photos representing SSO abatement activities on 9/10/24.





**Photo 1:** Excavation of SSO area with exposed 8-inch LFG header, airline, and forcemain



Photo 2: Soil backfilled area of SSO area with LFG header, airline, and forcemain exposed.

Mr. Clarke W. Gibson, P.E.  
September 11, 2024  
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If you have any questions, please contact either of the undersigned at the letterhead address.

Sincerely,



Jacob D. Smith  
Project Professional  
SCS Engineers



D. Brandon King  
Project Manager  
SCS Engineers

JDS/DBK

cc: Robert Arthur, Region 2000  
Elliott Inge, Region 2000  
Caleb Arrington, Region 2000

Encl.

**EXHIBIT 1. SSO AREA LFG WELL MONITORING  
LFG COMPOSITION INVESTIGATION  
LIVESTOCK ROAD FACILITY - RUSTBURG, VA**

Project No: 02195001.07

Date: 9/10/24

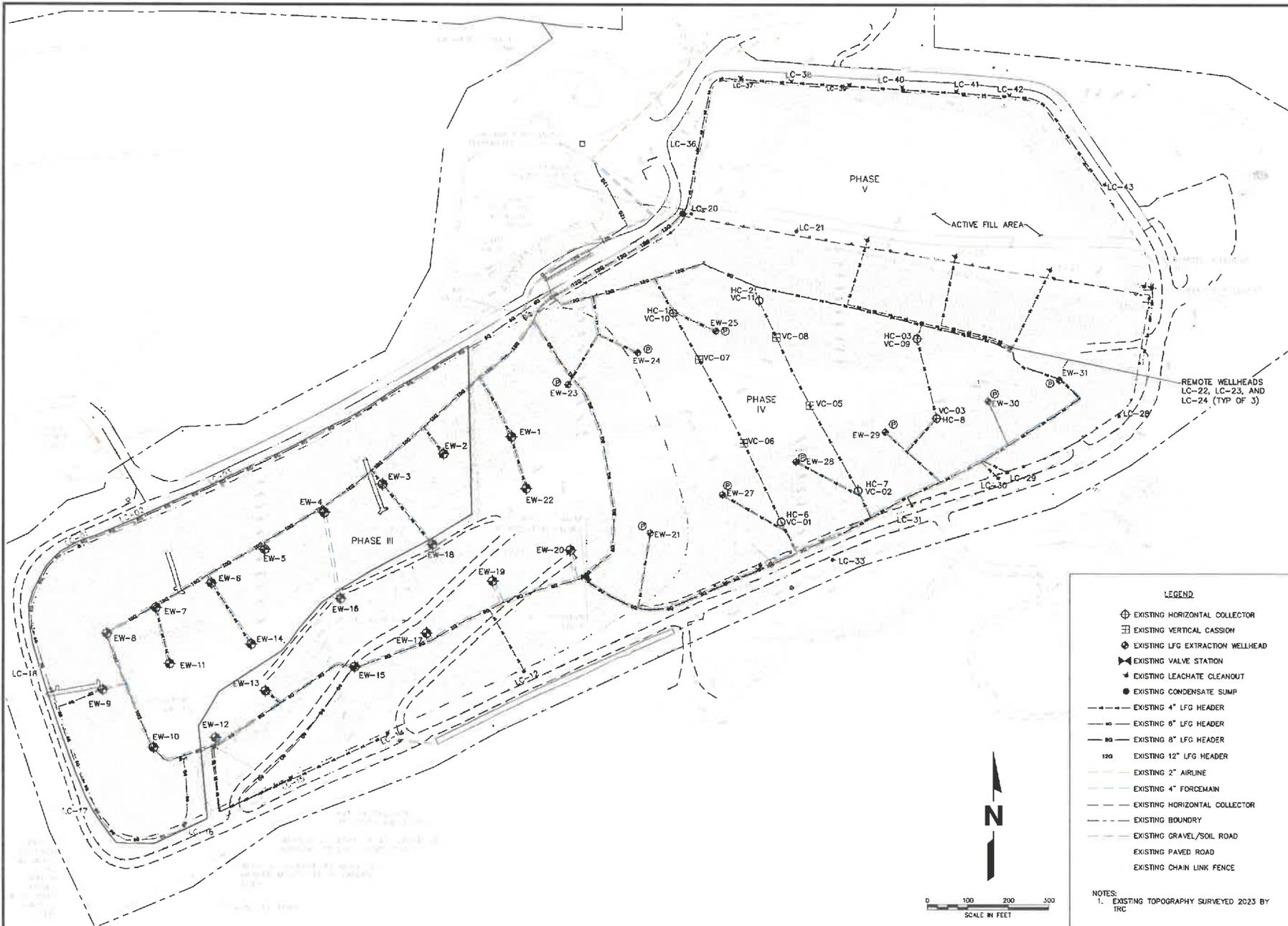
Personnel: DBK  
Equipment: Elkins Envision  
Weather: Clear, 84°

**LFG Extraction Well Monitoring**

LFG Well ID	Temperature (F)	Methane (% vol)	Carbon Dioxide (% vol)	Oxygen (% vol)	Balance Gas (% vol)	Pressure (in-wc)
EW-30	97.8°	57.0	41.0	0.0	2.0	NA
EW-31	95.2°	58.6	40.3	0.0	1.1	NA
LC-22	90.7°	57.6	40.1	0.0	2.3	NA
LC-24	87.9°	57.8	40.2	0.0	2.0	NA

Note: NA - the LFG System was turned off to these well components during the time of monitoring





NO.	REVISION	DATE
1	AS BUILT	

SHEET TITLE: **2024 AS BUILT DRAWING**  
 PROJECT TITLE:

CLIENT: **REGION 2000 SERVICES AUTHORITY**  
 381 LIVESTOCK ROAD  
 RUSTBURG, VA 24588

DATE: 09/12/2024  
 DRAWN BY: JUA  
 CHECKED BY: DBK

ADD FILE: 02195001.07  
 DATE: 9/12/2024  
 SCALE: AS SHOWN

DRAWING NO. **1** of 1

- LEGEND**
- ⊕ EXISTING HORIZONTAL COLLECTOR
  - ⊞ EXISTING VERTICAL CASSION
  - ⊕ EXISTING LFG EXTRACTION WELLHEAD
  - ⋈ EXISTING VALVE STATION
  - ⚡ EXISTING LEACHATE CLEANOUT
  - EXISTING CONDENSATE SUMP
  - 4" EXISTING 4" LFG HEADER
  - 6" EXISTING 6" LFG HEADER
  - 8" EXISTING 8" LFG HEADER
  - 12" EXISTING 12" LFG HEADER
  - 2" EXISTING 2" AIRLINE
  - 4" EXISTING 4" FORCEMAIN
  - EXISTING HORIZONTAL COLLECTOR
  - EXISTING BOUNDARY
  - EXISTING GRAVEL/SOIL ROAD
  - EXISTING PAVED ROAD
  - EXISTING CHAIN LINK FENCE

NOTES:  
 1. EXISTING TOPOGRAPHY SURVEYED 2023 BY TRC