

State of Colorado
Energy & Carbon Management Commission

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Report taken by:
John Heil

Site Investigation and Remediation Workplan (Initial Form)

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. However, this shall not preclude the Operator from taking immediate action to protect public health or safety, the environment, wildlife, or livestock.

This Form 27 describes site conditions as currently understood by the Operator; approval of this Form 27 by COGCC is based on the site conditions accurately described herein; any changes in site conditions identified during or subsequent to the performance of the approved workplan may necessitate additional investigation or remediation which shall be described on a supplemental Form 27. This Form 27 is intended to provide basic information regarding the proposed site investigation and remediation actions, but the workplan may be more fully described in attached documentation.

Closure request is not available for an Initial Site Investigation and Remediation Workplan.

OPERATOR INFORMATION

Name of Operator: LOCIN OIL CORPORATION Operator No: 51130 Phone Numbers
Address: 600 TRAVIS ST STE 6161 Phone: (303) 807-6182
City: HOUSTON State: TX Zip: 77002 Mobile: ()
Contact Person: Cathi Boles Email: cboles@tcolandservices.com

PROJECT, PURPOSE & SITE INFORMATION

PROJECT INFORMATION

Remediation Project #: 32779 Initial Form 27 Document #: 403371719

PURPOSE INFORMATION

- [X] Rule 913.c.(1): Pit or Cuttings Trench closure.
- [] Rule 913.c.(2): Buried or partially buried vessel closure, which will be by removal.
- [] Rule 913.c.(3): Remediation of Spill and Releases pursuant to Rule 912.
- [] Rule 913.c.(4): Land treatment of Oily Waste pursuant to Rule 905.e.
- [] Rule 913.c.(5): Closure of Centralized E&P Waste Management Facilities pursuant to Rule 907.h.
- [] Rule 913.c.(6): Remediation of impacted Groundwater pursuant to Rule 915.e.(3).D, and the contaminant concentrations in Table 915-1.
- [] Rule 913.c.(7): Investigation and remediation of natural gas in soil or Groundwater.
- [] Rule 913.c.(8): When requested by the Director due to any potential risk to soil, Groundwater, or surface water.
- [] Rule 913.c.(9): Decommissioning of Oil and Gas Facilities.
- [] Rule 913.g: Changes of Operator.
- [] Rule 915.b: Request to leave elevated inorganics in situ.
- [] Other:

SITE INFORMATION

No Multiple Facilities

Facility Type: PIT Facility ID: 109392 API #: County Name: RIO BLANCO
Facility Name: TAIGA FEDERAL 3-L-20-4S-102W Latitude: 39.682851 Longitude: -108.872611
** correct Lat/Long if needed: Latitude: Longitude:
QtrQtr: CSW Sec: 20 Twp: 4S Range: 102W Meridian: 6 Sensitive Area? Yes

SITE CONDITIONS

General soil type - USCS Classifications GC Most Sensitive Adjacent Land Use Rangeland
Is domestic water well within 1/4 mile? No Is surface water within 1/4 mile? No
Is groundwater less than 20 feet below ground surface? No

SITE INVESTIGATION PLAN

TYPE OF WASTE:

- E&P Waste Other E&P Waste Non-E&P Waste
- Produced Water Workover Fluids
- Oil Tank Bottoms
- Condensate Pigging Waste
- Drilling Fluids Rig Wash
- Drill Cuttings Spent Filters
- Pit Bottoms
- Other (as described by EPA)

DESCRIPTION OF IMPACT

| Impacted? | Impacted Media | Extent of Impact | How Determined |
|--------------|----------------|------------------|--------------------|
| UNDETERMINED | SOILS | TBD | Site Investigation |

INITIAL ACTION SUMMARY

Description of initial action or emergency response measures take to abate, investigate, and/or remediate impacts associated with E&P Waste.

Review of COGCC Inspection documents and historical imagery are unclear as to the existence of a pit on this site. A preliminary site investigation will be conducted to determine whether or not a pit was ever constructed on site.

PROPOSED SAMPLING PLAN

Proposed Soil Sampling

Will soil samples be collected as part of this investigation? (Number, type (grab/composite), analyses, and locations of samples):

It is not certain a pit was ever constructed at the facility. If there is any indication of excavation or pit berms on location, soil samples will be collected from the pit center and four side walls. A hand augur will be used to collect samples from each location at 1 foot intervals down to 5 feet. each interval will be field screened with a Photoionization Detector (PID) and the interval with the highest PID reading will be retrieved and sent to the lab for Table 915-1 analysis. If all sample field screen readings are similar, and there are no visual impacts or odors indicating hydrocarbons presence, the 5-foot depth sample will be kept. Sample points will be mapped with a GPS unit, and used to generate a sampling map.

Proposed Groundwater Sampling

Will groundwater samples be collected as part of this investigation? (Number, analyses, and locations of samples):

Proposed Surface Water Sampling

Will surface water samples be collected as part of this investigation? (Number, analyses, and locations of samples):

Additional Investigative Actions

Additional alternative investigative actions described in attached Site Investigation Plan (summary):

SITE INVESTIGATION REPORT

SAMPLE SUMMARY

Soil

Number of soil samples collected 0
Number of soil samples exceeding 915-1 _____
Was the areal and vertical extent of soil contamination delineated? _____
Approximate areal extent (square feet) _____

NA / ND

_____ Highest concentration of TPH (mg/kg) _____
_____ Highest concentration of SAR _____
_____ BTEX > 915-1 _____
_____ Vertical Extent > 915-1 (in feet) _____

Groundwater

Number of groundwater samples collected 0
Was extent of groundwater contaminated delineated? No
Depth to groundwater (below ground surface, in feet) _____
Number of groundwater monitoring wells installed _____
Number of groundwater samples exceeding 915-1 _____

_____ Highest concentration of Benzene (µg/l) _____
_____ Highest concentration of Toluene (µg/l) _____
_____ Highest concentration of Ethylbenzene (µg/l) _____
_____ Highest concentration of Xylene (µg/l) _____
_____ Highest concentration of Methane (mg/l) _____

Surface Water

0 Number of surface water samples collected
_____ Number of surface water samples exceeding 915-1
If surface water is impacted, other agency notification may be required.

OTHER INVESTIGATION INFORMATION

Were impacts to adjacent property or offsite impacts identified?

Were background samples collected as part of this site investigation?

If evidence of a pit is found, three additional soil samples will be collected from nearby undisturbed areas.

Was investigation derived waste (IDW) generated as part of this investigation?

Volume of solid waste (cubic yards) _____ Volume of liquid waste (barrels) _____

Is further site investigation required?

REMEDIAL ACTION PLAN

SOURCE REMOVAL SUMMARY

Describe how source is to be removed.

TBD based on results of initial investigation.

REMEDIATION SUMMARY

Describe how remediation of existing impacts to soil and groundwater is to be accomplished (i.e. summarize remedial action plan). Provide a brief narrative description including: technical justification, schedule for implementation, estimated time to attain NFA status, plus plans and specifications for the selected remedial action technology.

Since soil sampling is still needed, remediation plan has not yet been developed. The result of initial investigation activities will be reported on a Supplemental Form 27.

Soil Remediation Summary

In Situ

Ex Situ

_____ Bioremediation (or enhanced bioremediation)

_____ Excavate and offsite disposal

_____ Chemical oxidation

_____ If Yes: Estimated Volume (Cubic Yards) _____

_____ Air sparge / Soil vapor extraction

_____ Name of Licensed Disposal Facility or COGCC Facility ID # _____

_____ Natural Attenuation
_____ Other _____

_____ Excavate and onsite remediation
_____ Land Treatment
_____ Bioremediation (or enhanced bioremediation)
_____ Chemical oxidation
_____ Other _____

Groundwater Remediation Summary

_____ Bioremediation (or enhanced bioremediation)
_____ Chemical oxidation
_____ Air sparge / Soil vapor extraction
_____ Natural Attenuation
_____ Other _____

GROUNDWATER MONITORING

If groundwater has been impacted, describe proposed monitoring plan, including # of wells or sample points, monitoring schedule, analytical methods, points of compliance. Attach a groundwater monitoring location diagram.

REMEDIATION PROGRESS UPDATE

PERIODIC REPORTING

Approved Reporting Schedule:

Quarterly Semi-Annually Annually Other

Request Alternative Reporting Schedule:

Semi-Annually Annually Other

Rule 913.e:

After initial approval of a Form 27, the Operator will provide quarterly update reports in a Supplemental Form 27 to document progress of site investigation and remediation, unless an alternative reporting schedule has been requested by the Operator and approved by the Director. The Director may request a more frequent reporting schedule based on site-specific conditions.

Report Type: Groundwater Monitoring Land Treatment Progress Report O&M Report
 Other _____

Adequacy of Operator's General Liability Insurance and Financial Assurance

Describe the adequacy of the Operator's general liability insurance and Financial Assurance to fully address the anticipated costs of Remediation, including the estimated remaining cost for this project (below).

If this information has been provided on a Form 27 within the last 12 months, provide the Document Number of that form.

Operator anticipates the remaining cost for this project to be: \$ _____

WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? _____

Describe beneficial use, if any, of E&P Waste derived from this remediation project:

Volume of E&P Waste (solid) in cubic yards _____

E&P waste (solid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

Volume of E&P Waste (liquid) in barrels _____

E&P waste (liquid) description _____

COGCC Disposal Facility ID #, if applicable: _____

Non-COGCC Disposal Facility: _____

RECLAMATION PLAN

RECLAMATION PLANNING

Describe reclamation plan. Discuss existing and new grade recontouring; method and testing of compaction alleviation; and reseeding program, including location of new seed, seed mix and noxious weed prevention. Attach diagram or drawing.

If impacted soils are found, final reclamation will be performed in accordance with the 1200 series rules once all soil samples show concentrations less than Table 915-1 standards. Location would then be reseeded using a seed mix approved by state and local regulations.

Is the described reclamation complete? _____

Does the reclamation described herein constitute interim or final reclamation of the Oil and Gas Location?

Interim Final

Did the Surface Owner provide the seed mix? _____

If YES, does the seed mix comply with local soil conservation district recommendations? _____

Did the local soil conservation district provide the seed mix? _____

SITE RECLAMATION DATES

Proposed date of commencement of Reclamation. _____

Proposed date of completion of Reclamation. _____

IMPLEMENTATION SCHEDULE

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

PRIOR DATES

Date of Surface Owner notification/consultation, if required. _____

Actual Spill or Release date, or date of discovery. _____

SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 07/17/2023

Proposed site investigation commencement. 07/17/2023

Proposed completion of site investigation. 07/18/2023

REMEDIAL ACTION DATES

Proposed start date of Remediation. _____

Proposed date of completion of Remediation. _____

Per Rule 913.d.(2): Any change from the approved implementation schedule will be requested at least 14 days in advance, and the Operator may not make the change without the Director's approval.

Change from approved implementation schedule per Rule 913.d.(2).

Basis for change in implementation schedule:

OPERATOR COMMENT

This initial Form 27 is being submitted to outline the site investigation plan for the closure of Taiga Fed 3L-20-4-102 Pit ID# 109392 and to obtain a REM#. The attached map shows the coordinates of the pit in relation to the location. There does not appear to be a pit on site, but a site visit will be conducted to confirm. If there is any evidence or indication of a pit, soil samples will be collected according to the sampling plan. If no pit is found, photo & GPS documentation of site conditions will be submitted.

I hereby certify all statements made in this form are to the best of my knowledge true, correct, and complete.

Signed: Cathi Boles

Title: Compliance Mgr

Submit Date: 05/08/2023

Email: cboles@tcolandservices.com

Based on the information provided herein, this Application for Site Investigation and Remediation Workplan complies with COGCC Rules and applicable orders and is hereby approved.

COGCC Approved: John Heil

Date: 11/27/2023

Remediation Project Number: 32779

COA Type**Description**

| | |
|--------|--|
| | Operator shall review and exhaust all BLM records and documentation associated with Pit Facility ID 109392. |
| | On the Form 27 Supplemental, Operator shall address the Adequacy of Operator's General Liability Insurance and Financial Assurance section of the Form. |
| | Within 45-days of the approval of this Form 27, Operator shall submit a Supplemental Form 27 including their propose Site Investigation and Remedial Action Plan to thoroughly delineate potential impacts associated with Pit Facility ID 109392. |
| | Operator shall comply with Rule 909.a and ensure that the pit is properly permitted through an approved Form 15 with an active status, accurately mapped and listed according to current facility records in the ECMC database. |
| 4 COAs | |

Attachment Check List

Upon approval, the approved Form 27 and all listed attachments will be indexed to the Remediation Project file. Only the approved Form 27 will also be indexed to the related Facilities.

Att Doc Num**Name**

| | |
|-----------|---------------------------|
| 403371719 | FORM 27-INITIAL-SUBMITTED |
| 403371778 | MAP |

Total Attach: 2 Files

General Comments**User Group****Comment****Comment Date**

| | | |
|---------------|--|------------|
| Environmental | Based on ECMC review of Pit Inventories submitted by previous owners and operators of the related well and location, it appears that there was a 130 bbl produced water earthen evap pit on location (Doc #2314624). | 11/27/2023 |
|---------------|--|------------|

Total: 1 comment(s)