

# State of Colorado Oil and Gas Conservation Commission

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Document Number:

402089510

Receive Date:

08/21/2019

Report taken by:

ROB YOUNG

## 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.

Refer to Rules 340, 905, 906, 907, 908, 909, and 910

### OPERATOR INFORMATION

Name of Operator: <u>PADCO LLC</u>	Operator No: <u>24500</u>	<b>Phone Numbers</b> Phone: <u>(918) 6309912</u> Mobile: <u>( )</u>
Address: <u>P O BOX 5275</u>		
City: <u>BEVERLY HILLS</u> State: <u>CA</u> Zip: <u>90209-5275</u>		
Contact Person: <u>Dan Richmond</u> Email: <u>dan@dsrinc.net</u>		

### PROJECT, PURPOSE & SITE INFORMATION

#### PROJECT INFORMATION

Remediation Project #: 14006Initial Form 27 Document #: 402089510

#### PURPOSE INFORMATION

- |  |  |
|--|--|
| <input type="checkbox"/> 901.e. Sensitive Area Determination                                       | <input type="checkbox"/> 909.c.(5), Rule 910.b.(4): Remediation of impacted ground water                   |
| <input checked="" type="checkbox"/> 909.c.(1), Rule 905: Pit or PW vessel closure                  | <input type="checkbox"/> Rule 909.e.(2)A.: Notice completion of remediation in accordance with Rule 909.b. |
| <input type="checkbox"/> 909.c.(2), Rule 906: Spill/Release Remediation                            | <input type="checkbox"/> Rule 909.e.(2)B.: Closure of remediation project                                  |
| <input type="checkbox"/> 909.c.(3), Rule 907.e.: Land treatment of oily waste                      | <input type="checkbox"/> Rule 906.c.: Director request   |
| <input type="checkbox"/> 909.c.(4), Rule 908.g.: Centralized E&P Waste Management Facility closure | <input type="checkbox"/> Other _____   |

#### SITE INFORMATION

N Multiple Facilities ( in accordance with Rule 909.c. )

Facility Type: <u>WELL</u>	Facility ID: _____	API #: <u>121-10563</u>	County Name: <u>WASHINGTON</u>
Facility Name: <u>SHARP-BLAKE 1-A</u>	Latitude: <u>39.931650</u>	Longitude: <u>-103.528430</u>	
** correct Lat/Long if needed: Latitude: _____		Longitude: _____	
QtrQtr: <u>SESW</u>	Sec: <u>27</u>	Twp: <u>1S</u>	Range: <u>55W</u> Meridian: <u>6</u> Sensitive Area? <u>No</u>

#### SITE CONDITIONS

General soil type - USCS Classifications SCMost Sensitive Adjacent Land Use Range LandIs domestic water well within 1/4 mile? NoIs surface water within 1/4 mile? NoIs groundwater less than 20 feet below ground surface? No

Other Potential Receptors within 1/4 mile

## 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
No	SOILS	no contaminated soil in pit	Soil Sample

### INITIAL ACTION SUMMARY

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

Soil samples were taken from the existing pit and it was determined there was no hydrocarbon contaminated soil and as such no remediation should be required for closure.

### 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 ):

Yes, nine (9) soil samples have been collected: four (4) from the bottom of the pit, four (4) from the sidewalls of the pit, and one (1) sample from the berm of the pit (this sample was taken from ground level - beneath the berm). In addition to these soil samples, one (1) background sample was taken.

#### 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 9

Number of soil samples exceeding 910-1 0

Was the areal and vertical extent of soil contamination delineated? Yes

Approximate areal extent (square feet) 3800

### NA / ND

ND Highest concentration of TPH (mg/kg)

-- Highest concentration of SAR 3.2

BTEX > 910-1 No

Vertical Extent > 910-1 (in feet) 0

### 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 910-1

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

0 Number of surface water samples exceeding 910-1

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?

One (1) background sample was taken on July 10, 2019.

☐ 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.

As the soil samples determined the pit has 'clean' soil - there will be no excavation or removal of existing soil. Please see below for remediation plan.

## REMEDICATION 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.

PADCO will haul in 'clean' soil to backfill the pit to align with the natural terrain. PADCO will ensure the 'clean' soil meets the COGCC 'clean' standards. PADCO will alleviate historical compaction issues (if applicable) at the historic equipment areas, well area, and site roadways. Any disturbed areas will be prepared for seeding by contouring, leveling, and disking the surface. The prepared areas will then be seeded with an approved seed mixture, using a rate and method appropriate for the area. The seeded area will be mulched. PADCO will then monitor the area until vegetation has become established (~70% revegetation).

## Soil Remediation Summary

### ☐ In Situ

- ☐ Bioremediation ( or enhanced bioremediation )
- ☐ Chemical oxidation
- ☐ Air sparge / Soil vapor extraction
- ☐ Natural Attenuation
- ☐ Other \_\_\_\_\_

### ☐ Ex Situ

- ☐ Excavate and offsite disposal
- ☐ If Yes: Estimated Volume (Cubic Yards) \_\_\_\_\_
- ☐ Name of Licensed Disposal Facility or COGCC Facility ID # \_\_\_\_\_
- ☐ Excavate and onsite remediation
- ☐ Land Treatment
- ☐ Bioremediation (or enhanced bioremediation)
- ☐ Chemical oxidation
- ☐ Other \_\_\_\_\_

## Groundwater Remediation Summary

- ☐ No Bioremediation ( or enhanced bioremediation )
- ☐ No Chemical oxidation
- ☐ No Air sparge / Soil vapor extraction
- ☐ No Natural Attenuation
- ☐ No 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.

n/a

## REMEDATION PROGRESS UPDATE

### PERIODIC REPORTING

**Frequency:** ☒ Quarterly ☐ Semi-Annually ☐ Annually ☐ Other \_\_\_\_\_

**Report Type:** ☐ Groundwater Monitoring ☐ Land Treatment Progress Report ☐ O&M Report

☒ Other Project Status \_\_\_\_\_

### WASTE DISPOSAL INFORMATION

Was E&P waste generated as part of this remediation? No

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.

PADCO will haul in 'clean' soil to backfill the pit to align with the natural terrain. PADCO will ensure the 'clean' soil meets the COGCC 'clean' standards. PADCO will alleviate historical compaction issues (if applicable) at the historic equipment areas, well area, and site roadways. Any disturbed areas will be prepared for seeding by contouring, leveling, and disking the surface. The prepared areas will then be seeded with an approved seed mixture, using a rate and method appropriate for the area. The seeded area will be mulched. PADCO will then monitor the area until vegetation has become established (~70% revegetation).

Is the described reclamation complete? No

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

☐ Interim? ☐ Final?

Did the Surface Owner approve the seed mix? No

If NO, does the seed mix comply with local soil conservation district recommendations? No

## IMPLEMENTATION SCHEDULE

### PRIOR DATES

Date of Surface Owner notification/consultation, if required. \_\_\_\_\_

Actual Spill or Release date, if known. \_\_\_\_\_

### SITE INVESTIGATION DATES

Date of Initial Actions described in Site Investigation Plan (start date). 06/05/2019

Date of commencement of Site Investigation. 06/05/2019

Date of completion of Site Investigation. 07/10/2019

### REMEDIAL ACTION DATES

Date of commencement of Remediation. 08/15/2019

Date of completion of Remediation. 09/01/2019

### SITE RECLAMATION DATES

Date of commencement of Reclamation. 08/15/2019

Date of completion of Reclamation. 10/30/2019

### OPERATOR COMMENT

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

Signed: Ty Smith

Title: Sr Environmental Engineer

Submit Date: 08/21/2019

Email: tysmith@lesair.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: ROB YOUNG

Date: 08/22/2019

Remediation Project Number: 14006

### COA Type

### Description

	Submit a supplemental eForm 27 requesting closure along with site photographs showing the pit backfilled to grade, former tank battery and access road decompaction and seeding/mulching.
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### 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

402089510	FORM 27-INITIAL-SUBMITTED
402151926	ANALYTICAL RESULTS

Total Attach: 2 Files

### General Comments

#### User Group

#### Comment

#### Comment Date

Environmental	Based on the information presented, COGCC agrees it is appropriate to backfill the pit at this point.	08/22/2019
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Total: 1 comment(s)