



#51660

**State of Colorado
Oil and Gas Conservation Commission**

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 (303)894-2100 Fax:(303)894-2109

SITE INVESTIGATION AND REMEDIATION WORKPLAN

This form shall be submitted to the Director for approval prior to the initiation of site investigation and remediation activities. Form 27 is intended to be used whenever possible. Additional documentation will be required when large volumes of soil and groundwater have been impacted or involve large facilities with multiple source areas. See Rule 910. Attach as many pages as needed to fully describe the proposed work.

FOR OGCC USE ONLY

OGCC Employee:

☐ Spill ☐ Complaint
☐ Inspection ☐ NOAV

Tracking No: _____

CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED

☒ Spill or Release ☐ Plug & Abandon ☐ Central Facility Closure ☐ Site/Facility Closure ☐ Other (describe): _____

OGCC Operator Number: <u>66571</u>	Contact Name and Telephone: _____
Name of Operator: <u>Oxy USA WTP LP</u>	<u>Sean Norris</u>
Address: <u>760 Horizon Dr. # 101</u>	No: <u>970-263-3628</u>
City: <u>Grand Junction</u> State: <u>CO</u> Zip: <u>81506</u>	Fax: <u>970-263-3694</u>
API Number: <u>05-045-13486</u>	County: <u>Garfield</u>
Facility Name: <u>Cascade Creek 66S97W</u>	Facility Number: <u>335456</u>
Well Name: <u>Cascade Creek</u>	Well Number: <u>620-43-32</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>NESE 20 6S 97W 6 PM</u>	Latitude: <u>39.505417</u> Longitude: <u>-108.23651</u>

TECHNICAL CONDITIONS

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Condensate & produced water

Site Conditions: Is location within a sensitive area (according to Rule 901e)? ☐ Y ☒ N If yes, attach evaluation.

Adjacent land use (cultivated, irrigated, dry land farming, industrial, residential, etc.): Range land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Happle-Rock outcrop association, 25%-65% slopes

Potential receptors (water wells within 1/4 mi, surface waters, etc.): Cascade Canyon ~270'

Description of Impact (if previously provided, refer to that form or document):

Impacted Media (check):	Extent of Impact:	How Determined:
<input checked="" type="checkbox"/> Soils	<u>+250 cubic yards</u>	<u>volumetric estimate</u>
<input type="checkbox"/> Vegetation	<u>None</u>	<u>Visual observation</u>
<input type="checkbox"/> Groundwater	<u>Unknown</u>	_____
<input type="checkbox"/> Surface Water	<u>None</u>	<u>Visual observation</u>

REMEDIATION WORKPLAN

Describe initial action taken (if previously provided, refer to that form or document):

Tanks were removed from service, containment system was removed and a limited soils excavation conducted to characterize extent.

Describe how source is to be removed:

Excavation of accessible materials. Insitu remediation of inaccessible materials and/or groundwater if affected. ✓

Describe how remediation of existing impacts is to be accomplished, including removal and disposal at an injection well or licensed facility, land treatment on site, removal of impacted groundwater, insitu bioremediation, burning of oily vegetation, etc.:

Remediation of accessible materials will be via on property landfarm at another COGCC facility following Sundry approval of such facility. All accessible affected soils will be excavated and removed. Soils will be moved to another pad and placed on a bermed and lined area prepared for storage of the materials (Storage pad will be Sundry'd). Any inaccessible material (due to potential depth of extent) will be treated insitu via SVE, Sparge or other approved method.



Tracking Number: _____
Name of Operator: _____
OGCC Operator No: _____
Received Date: _____
Well Name & No: _____
Facility Name & No: _____

Page 2

REMEDIATION WORKPLAN (Cont.)

OGCC Employee: _____

If groundwater has been impacted, describe proposed monitoring plan (# of wells or sample points, sampling schedule, analytical methods, etc.):

Groundwater will be accessed following remediation of impacted soils. If remediation activities indicate groundwater impacts, those impacts will be accessed and a remediation and monitoring plan will be developed and implemented. COGCC and other relevant agencies will be informed immediately if impacts to groundwater are detected.

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. Use additional sheet for description if required.

The area of impact is an existing multiwell gas production pad. Reclamation will consist of replacement of well pad material to regrade the well pad for safe production activities, replace production equipment and resume operations of the site as a producing facility.

Attach samples and analytical results taken to verify remediation of impacts. Show locations of samples on an onsite schematic or drawing.

Is further site investigation required? ☒ Y ☐ N If yes, describe:

Details and sample analytical from remediation to follow in addendum Form 27.

Final disposition of E&P waste (landtreated and disposed onsite, name of licensed disposal facility, recycling, reuse, etc.):

Material will be stored temporarily on Cascade Ck 620-21 API #05-045-07211. Landfarm activities may take place at this site pending application and approval of Sundry to be filed upon determination of final volume of affected material.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began: 12/17/2010 Date Site Investigation Completed: _____ Date Remediation Plan Submitted: 2/3/2011
Remediation Start Date: 2/7/2011 Anticipated Completion Date: 3/31/2011 Actual Completion Date: _____

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

Print Name: Sean T. Norris

Signed: [Signature]

Title: Regulatory Lead

Date: 2/3/2011

OGCC Approved: [Signature]

Title: Env. Sup.

Date: 4/5/11

