



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

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REMEDIATION WORKPLAN (CONT.)

OGCC Employee: _____

Tracking Number: _____

Name of Operator: PDC Energy, Inc.OGCC Operator No: 69175

Received Date: _____

Well Name & No: Cottonwood #1Facility Name & No.: Cottonwood #1

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

PDC will continue to sample the seven monitoring wells on a quarterly basis to assess the dissolved phase petroleum hydrocarbon impacts in groundwater using USEPA Method 8260. Groundwater sampling will continue until four consecutive quarters of groundwater monitoring data indicate that VOC concentrations are below the Colorado Oil and Gas Conservation Commission (COGCC) Table 910-1 limits for Waste Management.

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 where the excavation is located is used as an equipment access area to the tank battery location and consists of road base. The excavation has been backfilled and compacted with clean material and the ground surface was contoured to match pre-existing conditions.

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:

No further Site investigation is required at this time. The excavation extent and soil and groundwater sample locations are illustrated on Figure 2. Soil analytical results are summarized in Table 1, groundwater analytical results are summarized in Table 2, and surface water analytical results are summarized on Table 3.

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

Waste was disposed of at the Waste Management Facility in Ault, CO.

IMPLEMENTATION SCHEDULE

Date Site Investigation Began:	<u>8/17/2012</u>	Date Site Investigation Completed:	<u>8/21/2012</u>	Remediation Plan Submitted:	_____
Remediation Start Date:	<u>9/15/2012</u>	Anticipated Completion Date:	<u>NA</u>	Actual Completion Date:	<u>TBD</u>

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

Print Name: Brandon Bruns

Signed:  Title: EHS Professional Date: _____

OGCC Approved: J. Hussey for John Axelson Title: East Environmental Supervisor Date: 10/29/2015