

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



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JAN 26 2010  
**COGCC**

**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.

OGCC Employee:  
 Spill  Complaint  
 Inspection  NOAV  
Tracking No: 4301

**CAUSE OF CONDITION BEING INVESTIGATED AND REMEDIATED**

Spill or Release  Plug & Abandon  Central Facility Closure  Site/Facility Closure  Other (describe): \_\_\_\_\_

OGCC Operator Number: <u>86610</u>	Contact Name and Telephone: <u>Matt Wurtzbacher</u>
Name of Operator: <u>Teton DJCO LLC</u>	<u>No: 303 565 4600</u>
Address: <u>600 17th St. Suite 1600</u>	<u>Fax: 303 565 4606</u>
City: <u>Denver</u> State: <u>CO</u> Zip: <u>80202</u>	

API Number: <u>N/A</u>	County: <u>Washington</u>
Facility Name: <u>Church</u>	Facility Number: <u>236286</u>
Well Name: <u>N/A</u>	Well Number: <u>N/A</u>
Location: (QtrQtr, Sec, Twp, Rng, Meridian): <u>SENE Sec 25 3S 51W</u> Latitude: _____ Longitude: _____	

**TECHNICAL CONDITIONS**

Type of Waste Causing Impact (crude oil, condensate, produced water, etc): Elevated TPH and SAR

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.): Dry Land

Soil type, if not previously identified on Form 2A or Federal Surface Use Plan: Sandy

Potential receptors (water wells within 1/4 mi, surface waters, etc.): N/A

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>Areal elevated TPH and SAR soils in/around pit</u>	<u>Sampling</u>
<input type="checkbox"/> Vegetation	_____	_____
<input type="checkbox"/> Groundwater	_____	_____
<input type="checkbox"/> Surface Water	_____	_____

**REMEDIATION WORKPLAN**

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

Referenced on Form 27 filed 8/20/08  
Removed oil contaminated surface equipment, treater hay and contaminated soils.. disposed at Clean Harbors in Deer Creek Trail.. Manifests on file with State

Describe how source is to be removed:

Dirt equipment - back hoe, front loader, dump truck

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.:

Remove elevated TPH soils @ P3F, Berm3 and dispose @ Clean Harbors. (Soil @ SPG removed previously.) Excavate and push elevated SAR areas @ Berm1, Berm2, Berm5, Berm7, SPA & SPB to the base depth of pit at a minimum of 5' below ground level. Restore and backfill pit and grade. Haul in and add new clean soil as needed. Seed in Spring.



Tracking Number: \_\_\_\_\_  
Name of Operator: Teton DJCO LLC  
OGCC Operator No: 86610  
Received Date: 1/26/10  
Well Name & No: Church  
Facility Name & No: 236286

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**REMIEDIATION WORKPLAN (Cont.)**

OGCC Employee: John Axelson

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

N/A

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.

Remove and dispose elevated TPH soils. Confirmation samples will be taken to confirm removal.  
Push SAR elevated soils to pit base at a minimum of 5 feet below ground level  
Backfill pits and restore contour/grade  
Re-seed entire area with native, wild seed mixture

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:

Schematic and sampling listing attached

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

For TPH elevated soils, Clean Harbor in Deer Creek Trail (Previously removed soils sent there as well.)

**IMPLEMENTATION SCHEDULE**

Date Site Investigation Began: \_\_\_\_\_ Date Site Investigation Completed: \_\_\_\_\_ Date Remediation Plan Submitted: \_\_\_\_\_  
Remediation Start Date: \_\_\_\_\_ Anticipated Completion Date: \_\_\_\_\_ 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: Matt Wurtzbacher

Signed: [Signature]

Title: PRESIDENT AND CHIEF OPERATING OFFICER

Date: JANUARY 25, 2010

OGCC Approved: [Signature]

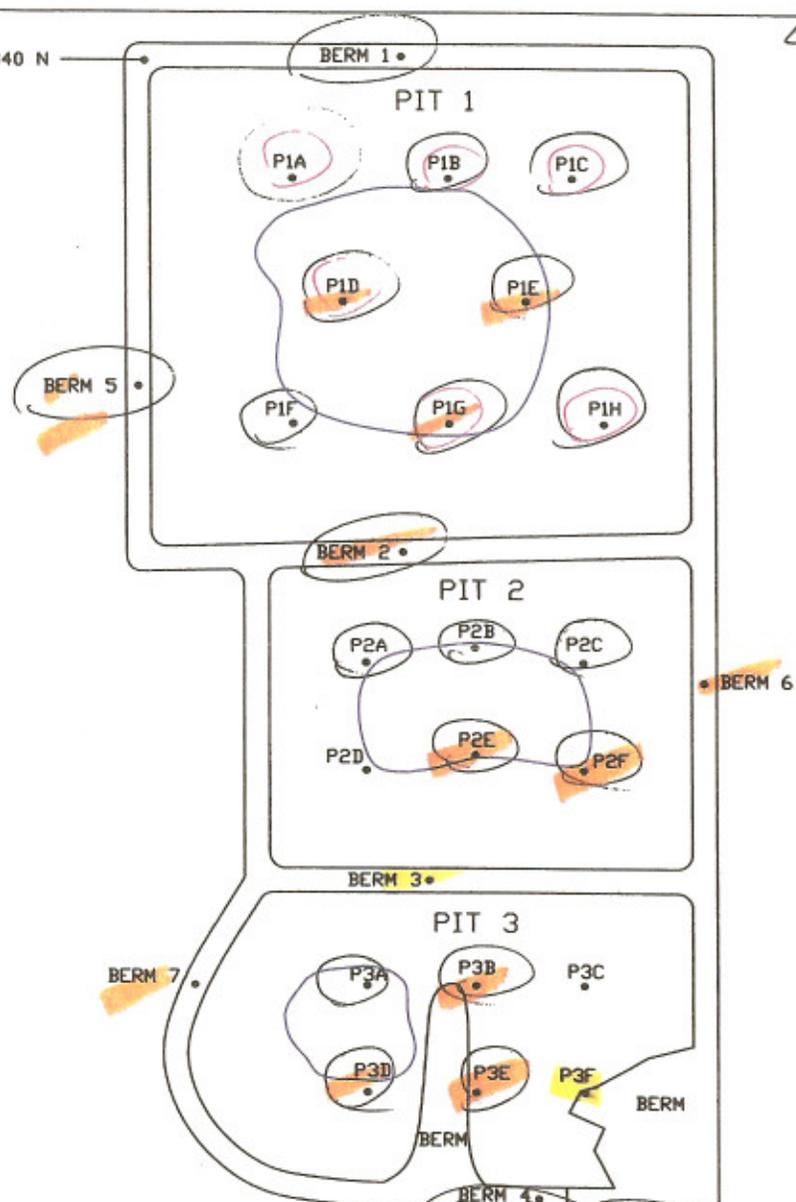
Title: EPS

Date: 2/5/10

UTM 668760 E, 4403840 N

SAU  
C109  
Spectrum

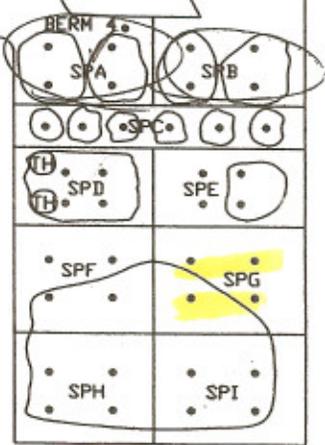
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TWH  
7/15/09

**LEGEND**

- P1A • PIT 1 SAMPLE A
- BERM 1 • BERM SAMPLE
- WATER PRESENT
- SPA SOIL PILE AREA A
- BG1 and BG2 668074 E  
4404109 N  
APPROXIMATE  
UTM COORDINATES
- BG3 and BG4 668066 E  
4403948 N  
APPROXIMATE  
UTM COORDINATES
- Ⓜ TREATER HAY



Optimizing environmental resources • water, air, earth

FIGURE 2  
SOIL SAMPLE LOCATIONS  
TETON ENERGY  
WASHINGTON COUNTY, COLORADO

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Table 1  
 Soil Data Summary  
 Teton Energy  
 Washington County, Colorado

	Units	TPH mg/Kg-dry	Diesel Fuel mg/kg	Fuel Oil mg/kg	Jet Fuel mg/kg	Kerosene mg/kg	Mineral Spirits mg/kg	Motor Oil mg/kg	Percent Moisture %	Specific Conductance mmhos/cm	pH 25°C Std. Units	SAR
Allowable Concentration (COGCC 910 Table 910-1)		10,000	NA	NA	NA	NA	NA	NA	NA	<4	6 to 9	<12
TEWC-P1A	9/4/2008	304	<12.2	<12.2	<12.2	<12.2	<12.2	<12.2	23.6	4.43	8.3	33.4
TEWC-P1B	9/4/2008	145	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	9.0	7.68	8.5	26.2
TEWC-P1C	9/4/2008	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	<9.6	11.2	5.52	8.7	39.6
TEWC-P1D	9/4/2008	708	<20	<20	<20	<20	<20	<20	53.3	4.91	9.4	86.0
TEWC-P1E	9/4/2008	167	<16.6	<16.6	<16.6	<16.6	<16.6	<16.6	44.2	3.81	9.7	113.0
TEWC-P1F	9/4/2008	92.3	<12	<12	<12	<12	<12	<12	22.8	1.78	9.0	12.0
TEWC-P1G	9/4/2008	84.2	<12.6	<12.6	<12.6	<12.6	<12.6	<12.6	25.2	4.11	9.5	53.4
TEWC-P1H	9/4/2008	135	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	5.4	7.51	8.8	35.6
TEWC-P2A	9/4/2008	<11.8	<11.8	<11.8	<11.8	<11.8	<11.8	<11.8	18.4	0.508	8.8	14.8
TEWC-P2B	9/4/2008	5,060	<14	<14	<14	<14	<14	<14	34.8	0.908	8.7	27.9
TEWC-P2C	9/4/2008	408	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	12.6	0.354	9.0	12.5
TEWC-P2D	9/4/2008	85.9	<9.8	<9.8	<9.8	<9.8	<9.8	<9.8	6.0	0.326	9.0	11.8
TEWC-P2E	9/4/2008	37.4	<8.9	<8.9	<8.9	<8.9	<8.9	<8.9	1.9	0.525	9.8	23.0
TEWC-P2F	9/4/2008	258	<11.8	<11.8	<11.8	<11.8	<11.8	<11.8	20.0	0.693	9.8	26.3
TEWC-P3A	9/4/2008	779	<13.8	<13.8	<13.8	<13.8	<13.8	<13.8	31.4	0.481	8.5	12.8
TEWC-P3B	9/4/2008	108	<10.9	<10.9	<10.9	<10.9	<10.9	<10.9	8.6	0.607	9.5	20.2
TEWC-P3C	9/4/2008	1,340	<12.2	<12.2	<12.2	<12.2	<12.2	<12.2	21.4	0.245	8.2	4.8
TEWC-P3D	9/4/2008	264	<10.4	<10.4	<10.4	<10.4	<10.4	<10.4	13.2	0.310	9.3	13.1
TEWC-P3E	9/4/2008	302	<10	<10	<10	<10	<10	<10	8.7	0.293	9.4	12.9
TEWC-P3F	9/4/2008	17,800	<109	<109	<109	<109	<109	<109	14.6	0.294	8.0	2.6
TEWC-BERM1	9/4/2008	49	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	3.5	2.87	8.6	33.3
TEWC-BERM2	9/4/2008	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	<10.5	11.2	1.48	9.9	20.3
TEWC-BERM3	9/4/2008	10,200	<107	<107	<107	<107	<107	<107	15.1	0.332	8.3	6.0
TEWC-BERM5	9/4/2008	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	<10.3	5.5	1.04	9.1	25.3
TEWC-BERM6	9/4/2008	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	<9.2	2.8	0.359	9.2	9.9
TEWC-BERM7	9/4/2008	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	<9.5	5.7	0.868	9.6	11.0
TEWC-SPA	9/4/2008	9,940	<110	<110	<110	<110	<110	<110	13.6	1.16	8.4	24.2
TEWC-SPB	9/4/2008	7,280	<110	<110	<110	<110	<110	<110	10.9	1.14	8.2	12.3
TEWC-SPC	9/4/2008	178	<10.1	<10.1	<10.1	<10.1	<10.1	<10.1	7.8	0.263	8.1	3.7
TEWC-SPD	9/4/2008	3,900	<108	<108	<108	<108	<108	<108	16.3	0.651	8.0	6.7
TEWC-SPE	9/4/2008	917	<10.8	<10.8	<10.8	<10.8	<10.8	<10.8	13.7	1.10	8.0	8.6
TEWC-SPF	9/4/2008	473	<9.9	<9.9	<9.9	<9.9	<9.9	<9.9	8.6	0.0988	7.3	1.2
TEWC-SPG	9/4/2008	16,700	<103	<103	<103	<103	<103	<103	10.0	0.515	7.9	4.1
TEWC-SPH	9/4/2008	9,510	<103	<103	<103	<103	<103	<103	14.0	1.05	8.0	3.7
TEWC-SPI	9/4/2008	4,960	<107	<107	<107	<107	<107	<107	7.7	0.493	8.0	4.9
TEWC-BG1	9/4/2008	NA	NA	NA	NA	NA	NA	NA	4.6	0.024	7.0	0.7
TEWC-BG2	9/4/2008	NA	NA	NA	NA	NA	NA	NA	5.3	0.0266	7.0	0.7
TEWC-BG3	9/4/2008	NA	NA	NA	NA	NA	NA	NA	4.7	0.0303	7.3	1.0
TEWC-BG4	9/4/2008	NA	NA	NA	NA	NA	NA	NA	5.5	0.0382	7.5	1.0

Notes:  
 TPH = total petroleum hydrocarbons  
 NA = not applicable  
 SAR = sodium absorption ratio  
 Highlight = exceedence of the allowable concentration