

Analytical Service Request & Chain of Custody Record for Environmental Samples

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Report to: **APRIL STEGALL**

Company: **DOMINION ENERGY WEXPRO**

Address: **PO BOX 458, 2221 WESTGATE DRIVE**

City, ST, Zip: **ROCK SPRINGS, WY 82901**

Phone: **307-352-7661** Fax: **307-352-7683**

Email: **april.stegall@dominionenergy.com**

Prefer Results by: Fax / (Email) / Hard Copy (circle all that apply)

**Please
PRINT
all
information**

Wyoming Analytical Laboratories, Inc
 1660 Harrison St
 Laramie, WY 82070
 307-742-7995
 Fax 307-721-8956
 wallaramie@aol.com

625 Center St
 Rock Springs, WY 82901
 307-362-3176
 Fax 307-362-3581
 walrspgs@aol.com

*Matrix: W-water, S-soil, SL-sludge, O-oil, G-gaseous, X-other: _____

**Preservation: T-4°C, A-acid _____, F-filtered, N-none, X-other: _____

TAT: Standard / Expedite _____ days (subject to fee/availability)

Project: **BID MUSSEY 19** PO#: **71247**

Sample ID		Date/Time	Matrix*	# of	Pres	cust	SVOAA by GC	VOA by GC	BTEX, by GC	TPH 418.1,	F, Cl, N Br, PO	Alkalini	TSS, T	TOC, B	Specific	52c	As Rec' TCLP, V	Group1, Pb, Hg,
1	1003109 #1	8/17 12:30pm	S	5			✓	✓	✓							✓		✓
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		

st	Print Name: [Signature]
----	-------------------------

Relinquished 1st

Print Name: **April Stegall**

Signature: **APRIL**

Date/Time: **8/17 5:15 pm**

Shipped VIA: **DTC**

Received 1st

Print Name: **Hape McCoy**

Signature: **Hape McCoy**

Date/Time: **8/17/17 1715**

Relinquished 2nd

Print Name: _____

Signature: _____

Date/Time: _____

Shipped VIA: _____

Received 2nd

Print Name: _____

Signature: _____

Date/Time: _____

Special Instructions / Comments:

KEEP COOL

Metals: soluble boron, total (RCRA, Ni, Cu, Zn), Cr4, calculate Cr3

Inorganics: (saturated paste) Ca, Mg, Na, SAR, pH, conductivity

WAL use only: Record discrepancies in sample condition upon receipt on WAL Doc#228 - SCUR

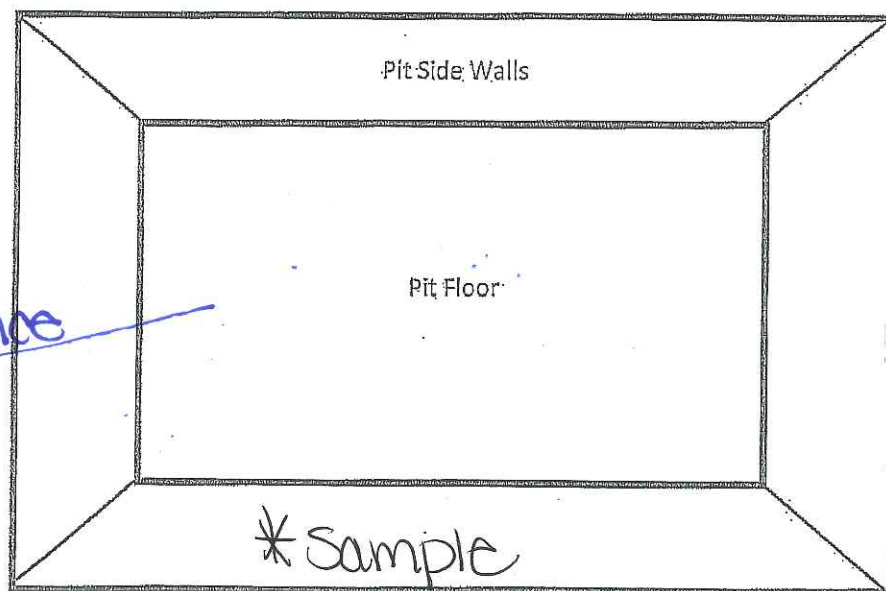
7.2°C

* Powder wash operator marked
old pit location

DATE: 8.17.17

COLORADO PIT CLOSURE - SAMPLING MAP

WELL NAME: BW musser 19-100349



line entrance

LEGEND

- ★ Pit Low Point - Sample Point
- Pit Side Wall - Sample Point
- Off Site - Sample Points (3)

*Remember to put GPS coordinates
on all sample sites*

gps: 40.94340-108.32222
depth: approximately 10'8"



NORTH

surface-gravel to 2"
2"-2' loose brown sand
2'-7' clay fill material
pit contents (no strong odor, grey-
ish color) 7'-10'
bentonite chunks at 10'
native dirt starting to show at
10'2"

X- No offsites

100369

sample location

Legend

40.94340, -108.32222

Google earth


90 ft

N

100369

sample location
historic imagery-2006

Legend

 40.94340, -108.32222

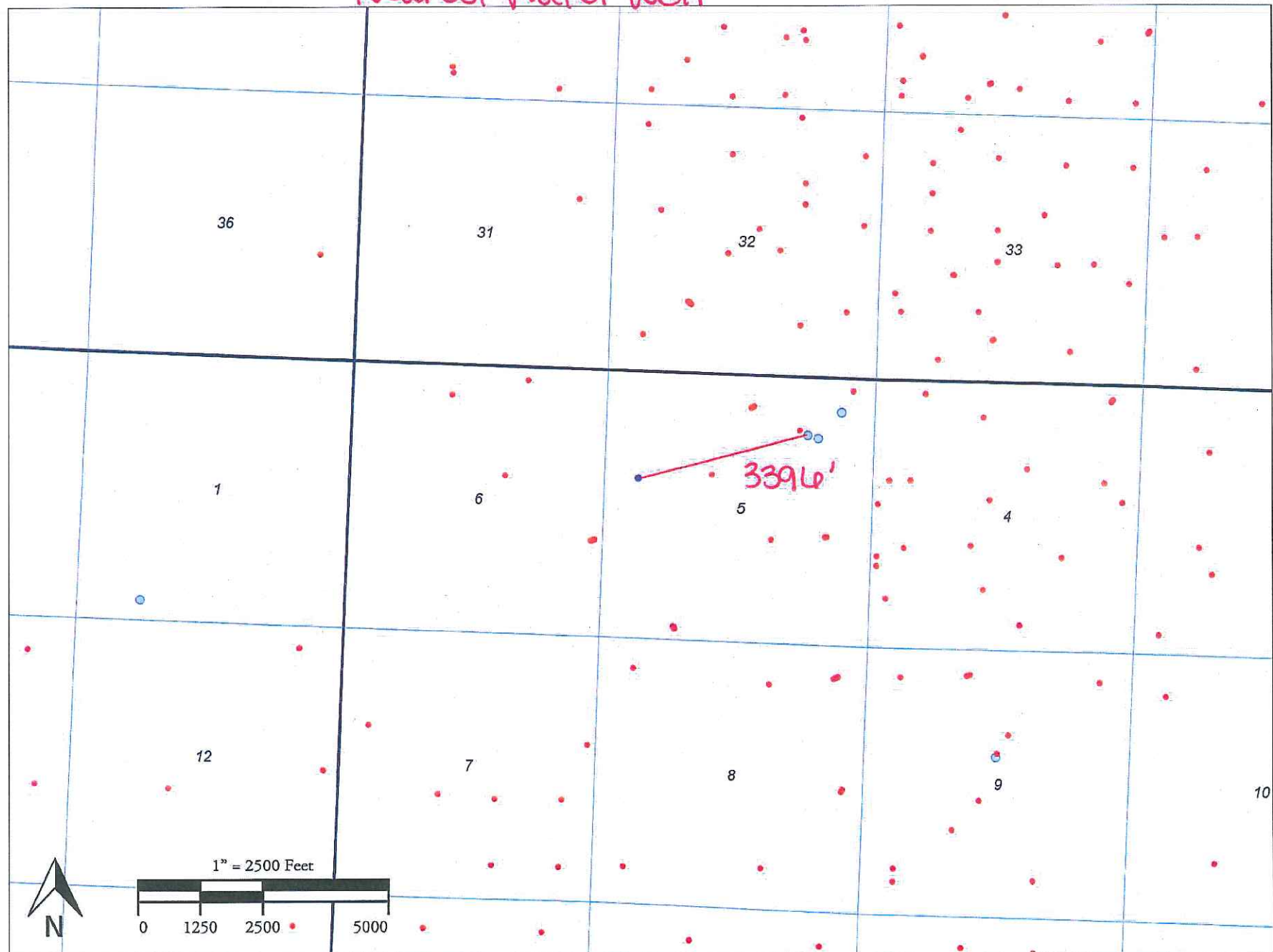
Google earth

Image USDA Farm Service Agency

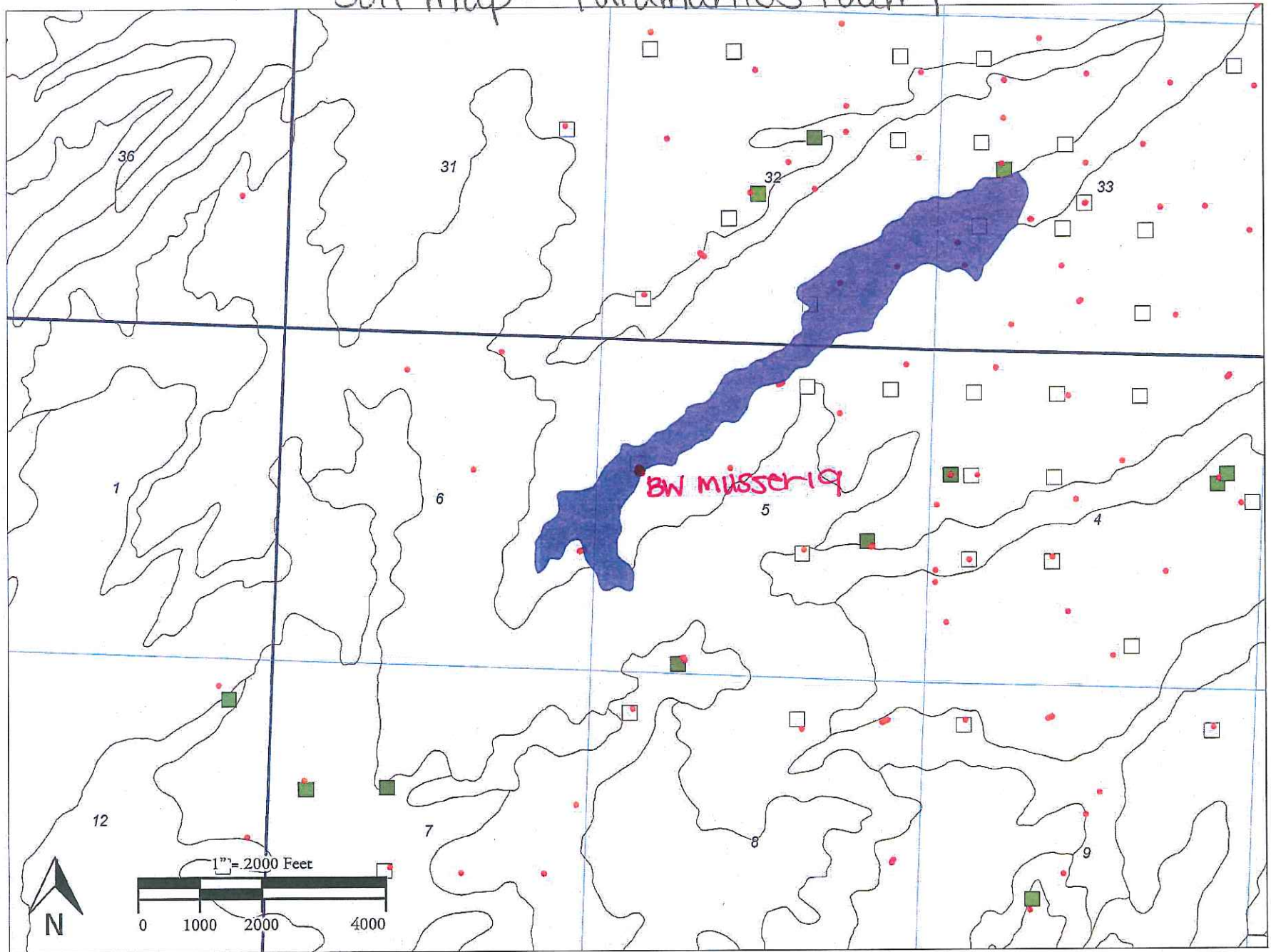


90 ft

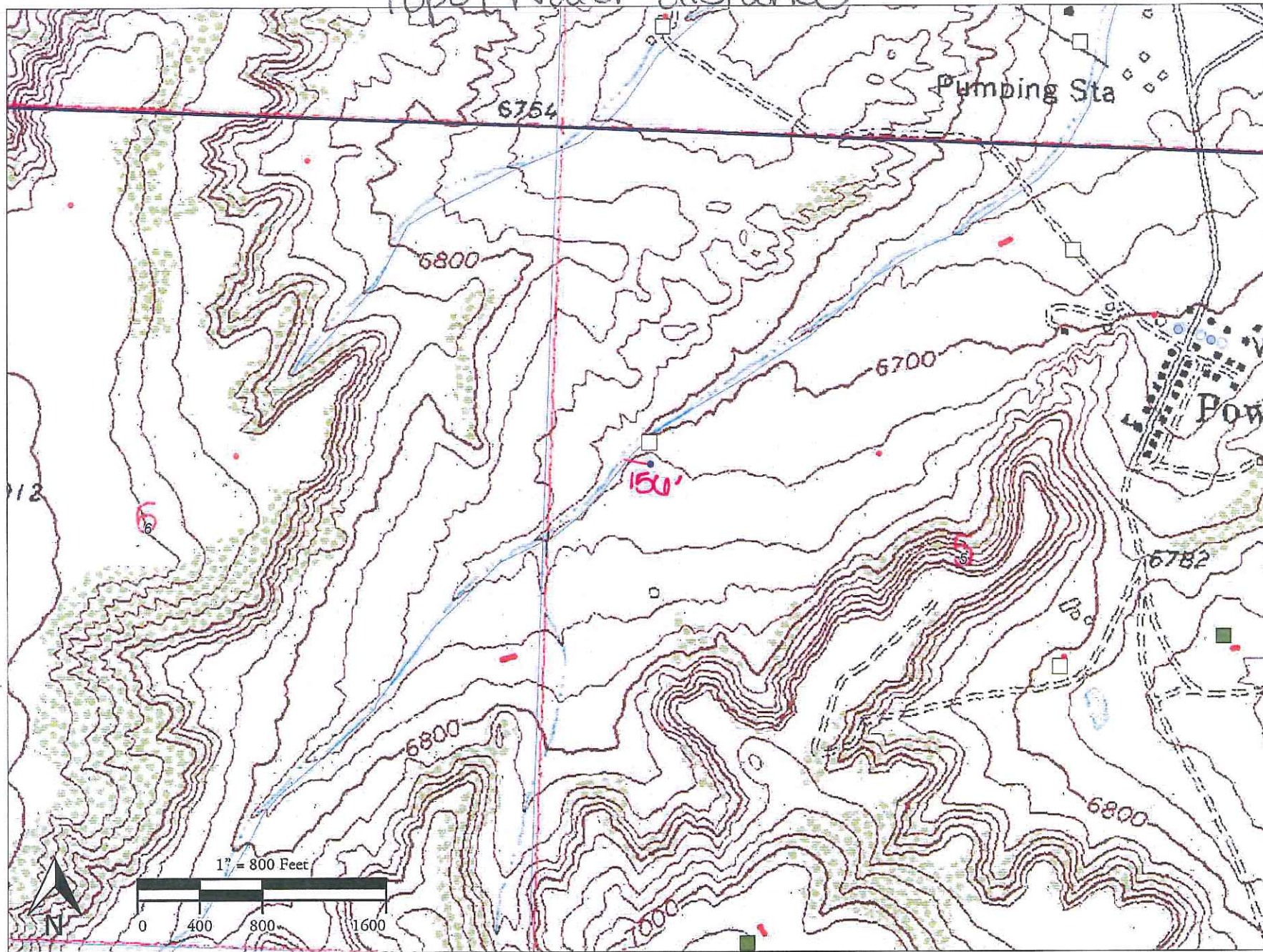
Nearest water well

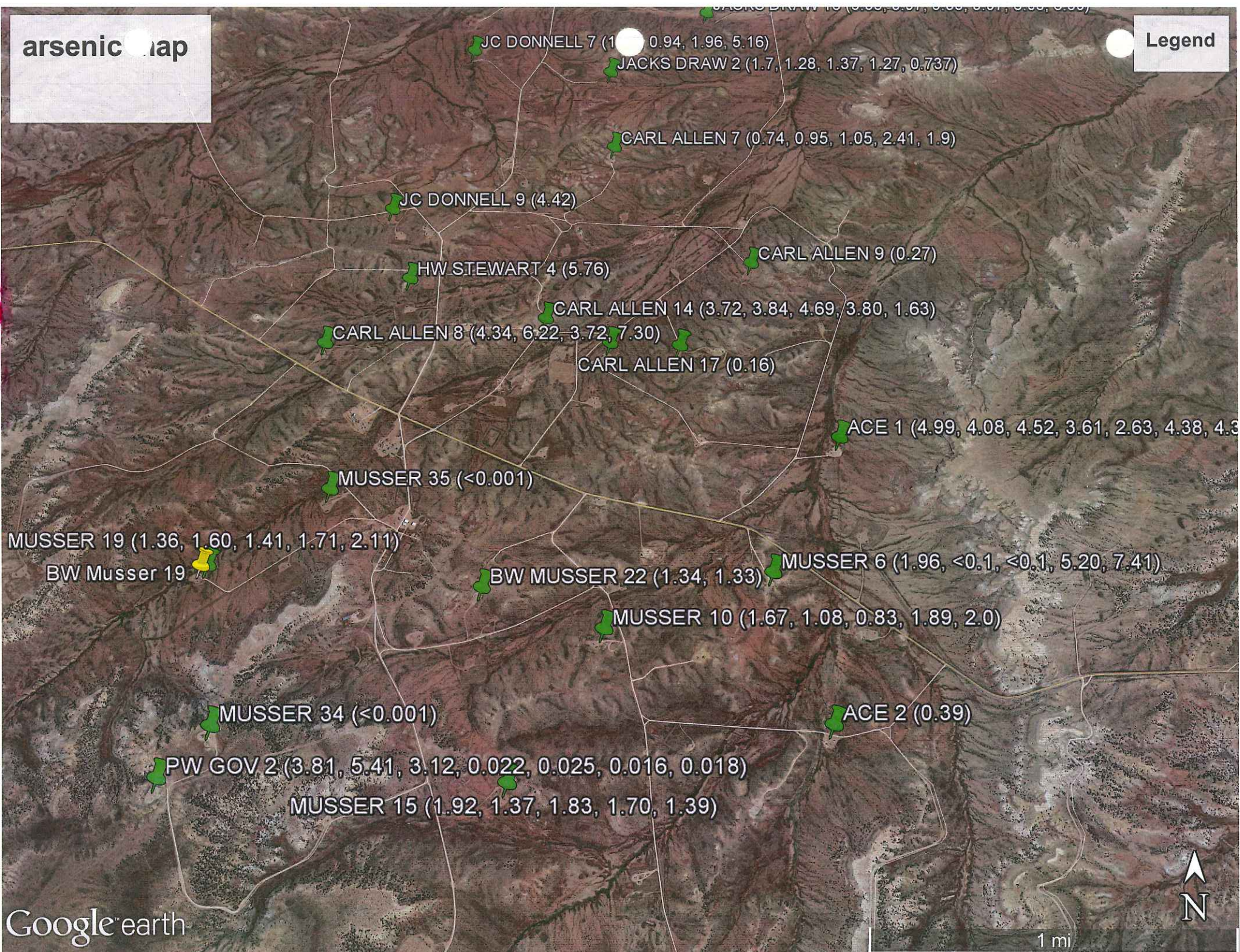


Soil map - Talamantes loam



topol water distance





Wexpro Company - Pit Closure Procedure-

Form 27 Attachment

The following will accompany the Colorado Oil & Gas Conservation Commission (COGCC) Form 27. The following information describes the process for closing and receiving COGCC approval for different pit closure scenarios.

As per the COGCC Form 27, the following will address the "Remediation Workplan".

"Describe initial action taken":

First, a visual inspection will be performed; looking for signs of stained soil and any potential leeching of pit components that may have impacted surface water. A Form 27 with attachments will be submitted with the pit size, location, and estimated closure date. The attachments will include the following: NRC soil map description, topographic map and/or Google Earth image and additional information detailing the distance to the nearest water source, estimated groundwater depth and distance from the nearest water well.

If the pit was previously closed, without proper documentation; Wexpro Company will determine, as best as possible, the location and size of the pit by using sundries, permits, historic Google Earth imagery, site security diagrams and knowledge of the area obtained from long term Wexpro Company personnel. The Form 27 will also include the NRC soil map description, topographic map and/or Google Earth image and additional information detailing the distance to the nearest water source.

It is believed that most, if not all, pits in the Hiawatha/Powder Wash area were lined with bentonite liners. These liners would have been broken up during the process of "stirring and airing" that occurs on all Wexpro Company pits prior to sampling.

"Describe how source is to be removed":

1. In the event that the pit is open, the following steps will be performed:
 - a. 72 hour notification will be given to COGCC prior to sampling.
 - b. A total of 4 pit samples will be taken. Three individual samples will be taken from the sidewalls. If the location of the load line's entrance to the pit is known, a sample of the wall opposite of the load line's entrance will be taken as one of the three side wall samples. A sample of the pit bottom will be taken. Depth of samples will be determined by visual cues during sampling, as to best obtain a sample of the native soil. Crews will be watching for indications of groundwater during sampling. If groundwater is encountered, COGCC will be notified immediately.
 - c. All samples will be sent to a lab and tested according to Table 910-1. Testing results will be submitted to COGCC with an attached Form 27.
 - d. Three offsite reference samples will also be obtained and tested for arsenic (*If a location has two or more pits, only one set of offsite reference samples will be obtained*). Wexpro Company will provide a map of previously obtained arsenic samples within a one mile radius of the pit to be sampled. If pit arsenic results are within a reasonable range of previous samples, offsite samples will not be conducted. Arsenic maps will be submitted with soil analysis results.

- e. GPS coordinates for sampling points and depths will be provided with Form 27 and soil analysis results.
- f. If samples meet the COGCC Table 910-1 requirements, Wexpro Company will request closure of the facility in the COGCC database and No Further Action (NFA). If pit depth is known, it will be referenced in the Final Form 27 in comparison to depth at which pit samples were obtained. If samples do not meet Table 910-1 requirements, another Form 27 with remediation plan will be submitted.
2. According to portions 2 and 4 of section F of COGCC Rule 911.1, pits closed before December 30, 1997 are not subject to Rules 905, 906, 907, 909 and 910. In the event that the pit was physically closed without proper permitting before December 30, 1997, documentation supporting pit closure date will be submitted to the COGCC and Wexpro Company will request closure of the facility in the COGCC database and NFA. In the event that the pit was physically closed without proper permitting after December 30, 1997, the following steps will be carried out:
- 72 hour notification will be given to COGCC prior to sampling.
 - A third party contractor will locate the pit in the field based on information provided by Wexpro Company (ex: site security diagrams, historic imagery, sundries, permits, personnel, visual inspection).
 - Pit samples will be obtained using a truck mounted auger (please see attachment). If the pit has not been sampled, 4 core samples will be taken. Three individual samples will be taken from sidewalls. If the location of the load line's entrance to the pit is known, a sample of the wall opposite of the load line's entrance will be taken as one of the three side wall samples. A sample of the pit bottom will be taken. (If the pit has been sampled previously, one core sample will be taken as confirmation of the previously taken composite samples, due to the cost of third party sampling and soil analysis. One sample will be taken from the sidewall. If the location of the load line's entrance to the pit is known, a sample of the wall opposite of the load line's entrance will be taken for this sample. Offsite reference samples will also be obtained (unless done previously). Depth of samples will be determined by visual cues during sampling, as to best obtain a sample of the native soil. Crews will be watching for indications of groundwater during sampling. If groundwater is encountered, COGCC will be notified immediately.
 - All samples will be sent to a lab and tested according to Table 910-1. Testing results will be submitted to COGCC with an attached Form 27.
 - GPS coordinates for sampling points and depths will be provided with Form 27 and soil analysis results.
 - If samples meet Table 910-1 requirements, Wexpro Company will request closure of the facility in the COGCC database and NFA. If pit depth is known, it will be referenced in the Final Form 27 in comparison to depth at which pit samples were obtained. If samples do not meet Table 910-1 requirements, another Form 27 with remediation plan will be submitted.

"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.":

To be determined after soil analysis. If remediation is necessary, an additional Form 27 with remediation plan will be submitted.

In the event that pit tests high for EC/SAR/pH, remediation will not be necessary. COGCC's 2008 FAQs Question #32 reads: "Consistent with its prior practice and Rule 1003, the COGCC will generally apply the Table 910-1 concentration levels for pH, SAR, and EC to soils that are within three (3) feet of the ground surface because elevated levels of pH, SAR, and EC in deeper soils should not adversely affect the successful reclamation of the site, which is the objective of these concentration levels. In addition, the COGCC requires that materials with elevated pH, SAR, or EC be buried under a minimum of three (3) feet of backfill cover and soil that satisfies either the Table 910-1 levels for pH, SAR, and EC or the background levels for such contaminants within three (3) feet of the ground surface at the site. In addition, the soil horizons must be replaced in their original relative position and reclaimed in accordance with 1000 Series Rules, including the establishment of vegetative cover on non-cropland and successful crop growth on cropland." During final reclamation of the well pad, the pits will be backfilled and re-contoured with the well pad (if not previously done). Berm dirt will be knocked into the pit area and compacted. Additional material, if needed, will be topsoil, brought in from a commercial or offsite source.

"If groundwater has been impacted, describe proposed monitoring plan":

To be determined, if necessary. In the event that groundwater has been potentially impacted, the extent will be determined and Wexpro Company will submit a monitoring plan to COGCC.

"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 pit will be backfilled to grade (if not previously done). Pit will be seeded and recontoured to match the surrounding terrain and seeded during final reclamation of the well pad. Seed mix used will be approved by the Surface Owner. Final reclamation will take place after the plugging and abandonment of the well.

"Attach samples and analytical results taken to verify remediation impacts. Show locations of samples on an onsite schematic or drawing. Is further site investigation required? If yes, describe":

Soil investigation for the project will be carried out as described above. All analytical data obtained will be submitted to COGCC, with attached Form 27.

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

To be determined, if necessary. Final disposition of any E&P waste will be documented and submitted to COGCC. This includes haul tickets, volume of soil, etc.

