

Coal Energy Group 2

6602 Ilex Circle
Naples, Florida 34109

Steve Christensen
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

January 13, 2020

Re: **2019 Annual Report, Permit No. C/007/0033**

Dear Mr. Christensen:

On behalf of Coal Energy Group 2, LLC, Attached to this letter is the 2019 annual report for the Wildcat Loadout, Permit No. C/007/0033.

Very truly yours,



Larry W. Johnson
Manager

2019 ANNUAL REPORT

Submit the completed document and any additional information identified to the Division by March 31, 2020.

GENERAL INFORMATION

Company Name	Coal Energy Group 2, LLC	Mine Name	Wildcat Loadout
Permit Number	C/007/0033	Permit Expiration Date	May 5, 2024
Operator Name	Coal energy Group 2, LLC	Phone Number	+1 (435) 691-2983
Mailing Address	6602 Ilex Circle	Email	ceg2.3llc@gmail.com
City	Naples		
State	Florida	Zip Code	34109

DOGMM File Location or Annual Report Location

Excess Spoil Piles	<input type="checkbox"/> Required <input checked="" type="checkbox"/> Not Required	
Refuse Piles	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	
Impoundments	<input checked="" type="checkbox"/> Required <input type="checkbox"/> Not Required	
Other:		

OPERATOR COMMENTS

N/A

REVIEWER COMMENTS Met Requirements Did Not Meet Requirements

COMMITMENTS AND CONDITIONS

The Permittee is responsible for ensuring annual technical commitments in the Mining and Reclamation Plan and conditions accepted with the permit are completed throughout the year. The Division has identified these commitments below and has provided space for you to report what you have done during the past year for each commitment. If additional written response is required, it should be filed as an attachment to this report.

Title: COAL FINE ACCUMULATION MONITORING

Objective: To minimize coal fine accumulations on undisturbed ground within the disturbed area boundary. This area did not have topsoil salvaged, but was vacuumed, disced, mulched and seeded in September 2010. Please provide the depth of the new accumulation if present. Please provide the photo locations on a map. Additionally, please create a grid system on a plan view map of the fines recovery area and report the percentage of area covered by fines in each area and the depth of the fines, similar to Figure 1 / Plate 1 in Appendix "P" of the MRP which plotted coal fines depth prior to fines recovery.

Frequency: Quarterly

Status: Ongoing

Reports: Monitoring protocol, location of observations, digital photographs and results to be filed with the Annual Report.

Citation: Appendix P, Item 7

OPERATOR COMMENTS

See attached Annual Coal Fines Report

REVIEWER COMMENTS

Met Requirements

Did Not Meet Requirements

FUTURE COMMITMENTS AND CONDITIONS

The following commitments are not required for the current annual report year, but will be required by the permittee in the future as indicated by the "status" field. These commitments are included for information only, and do not currently require action. If you feel that the commitment is no longer relevant or needs to be revised, please contact the Division.

Title: PROTECTION OF TOPSOIL

Objective: To protect topsoil

Frequency: Prior to construction of Pond G

Status: Future commitment (Prior to construction of Pond G).

Reports: Monitor soil salvage from the "mechanical clean-up area" east of PR 5. Provide an as-built showing dimensions and volume contained in Topsoil Pile A.

Citation: MRP, Section R645-301-212, and Appendix P, Item 2, Item 4 and Figure 2

Title: GRAVEL A PORTION OF ACCESS ROAD PR-5

Objective: To minimize coal fine accumulations on in-situ topsoil east of PR 5.

Frequency: Before PR 5 is used for semi truck access to the coal storage pad

Status: At such time as the construction of Pond G becomes necessary.

Reports: None

Citation: Appendix P, Item 6

REPORTING OF OTHER TECHNICAL DATA

Please list other technical data or information that was not included in the form above, but is required under the approved plan, which must be periodically submitted to the Division.

Please list attachments:

N/A

REVIEWER COMMENTS

Met Requirements

Did Not Meet Requirements

MAPS

Copies of mine maps, current and up-to-date, are to be provided to the Division as an attachment to this report in accordance with the requirements of R645-301-525.240. The map copies shall be made in accordance with 30 CFR 75.1200 as required by MSHA. Mine maps are not considered confidential.

Map Name	Map Number	Included		Confidential	
		Yes	No	Yes	No
N/A		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

REVIEWER COMMENTS Met Requirements Did Not Meet Requirements

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: DEPRESSED AREA IMPOUNDMENT

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water DRY

Sediment _____

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition NA

Good Fair Poor Needs Work

F. Decant NA

Good Fair Poor Needs Work

G. Freeboard NA

Good Fair Poor Needs Work

Comments/Field Information:

AREA COVERED WITH APPROXIMATELY 1' OF SNOW.

Inspected By

Name: _____



DEPRESSED AREA

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: PERMANENT IMPOUNDMENT

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water DRY

Sediment _____

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

UPPER CELL HAS APPROXIMATELY 1' OF SNOW,

LOWER CELL HAS THE SAME AMOUNT OF SNOW,

Inspected By

Name: J T Pakus 3/9/19



PERMANENT IMPOUNDMENT UPPER CELL



PERMANENT IMPOUNDMENT LOWER CELL

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "A"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water
Sediment

ICE
NOT AVAILABLE

C. Evidence of Animal Burrows

- Yes No

D. Vegetative Cover

- Yes No

Root Penetration

- Yes No

E. Spillway Condition

- Good Fair Poor Needs Work

F. Decant

- Good Fair Poor Needs Work

G. Freeboard

- Good Fair Poor Needs Work

Comments/Field Information:

CANNOT DETERMINE SEDIMENT LEVEL DUE TO ICE & SNOW.

Inspected By

Name: J J Paluso 3/9/19



POND A LOOKING EAST

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "B"

A. Bank Stability

Incised 3/4

Embankment 1/4

B. Capacity (0% / 100%)

Water DRY
Sediment NOT AVAILABLE

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No

Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

CANNOT DETERMINE SEDIMENT LEVEL DUE TO SNOW.

Inspected By

Name: J J Paluso 3/9/19



POND B LOOKING EAST

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "C"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water
Sediment

ICE
NOT AVAILABLE

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No
Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

CANNOT DETERMINE SEDIMENT LEVEL DUE THE
AMOUNT OF SNOW.

Inspected By
Name: J. V. Paluso 3/9/19



POND C

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "D"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water
Sediment

ICE
NOT AVAILABLE

C. Evidence of Animal Burrows

- Yes
- No

D. Vegetative Cover

- Yes
- No

Root Penetration

- Yes
- No

E. Spillway Condition

- Good
- Fair
- Poor
- Needs Work

F. Decant

- Good
- Fair
- Poor
- Needs Work

G. Freeboard

- Good
- Fair
- Poor
- Needs Work

Comments/Field Information:

CANNOT DETERMINE SEDIMENT LEVEL DUE TO ICE & SNOW,

Inspected By

Name: J J Palusz 3/9/19



POND D

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "E"

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

DRY

Sediment

NOT AVAILABLE

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

CANNOT DETERMINE SEDIMENT DUE TO THE AMOUNT
OF SNOW.

Inspected By

Name: J J Paluso 3/9/19



POND E

Sedimentation Pond Inspection

Date: March 9, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "F"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water
Sediment

DRY
NOT AVAILABLE

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No
Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

CANNOT DETERMINE SEDIMENT LEVEL DUE TO THE
AMOUNT OF SNOW,

Inspected By

Name: J T Rakus 3/9/19



POND F

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
 Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov



Quarterly Inspection Form - Refuse Disposal Areas
 (please provide to DOGM promptly after inspection is complete)

Permit Number : C/007/0033 Inspection Date : March 9, 2019
 Mine Name : Wildcat Loadout Quarter / Year : 1st Quarter 2019
 Mine Operator (Permittee) : Coal Energy Group 2, LLC Inspector Name : J. T. Paluso
 MSHA ID # : 1211-UT-09-018664-01 Inspector Signature : Joseph T. Paluso
Digitally signed by Joseph T. Paluso
 DN: cn=Joseph T. Paluso, o=EIS, ou=
 email=interpaluso@prodccm.net, c=US
 Date: 2019.04.02 09:17:29 -0600
 Facility Name / Location / Address : Wildcat Loadout/5495 West 3550 North, Helper, Utah 84526

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
There has not been any changes made this quarter. Pile is covered with approximately 1' of snow.

Refuse consists of +4 rock.

2. Lift Height / Thickness Avg NA Maximum 2' # Elevation of Active Benches : NA , ,

3. Vertical Angle of Outslope(s) / Location(s) where measured NA / / /

4. Total storage capacity: 20' Height Remaining storage capacity NA Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Foundation is firm and undisturbed soil. Vegetation has been removed. Pile will not exceed 20 feet high.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Fill material is placed over compacted refuse with push tractor.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
No evidence of fires or burning

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None known. East drainage ditch needs cleaning shortly.

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
None noticed

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

- Are there cracks or scarps in crest ? YES NO
- Is there any detectable sloughing or bulging ? YES NO
- Do slope erosion problems exist ? YES NO
- Cracks or scarps in slope ? YES NO
- Surface movements? (valley bottom, hillsides) YES NO
- Erosion of Toe ? YES NO
- Water impounded by structure ? YES NO
- Are diversion ditches stable? YES NO
- Is drainage positive ? YES NO

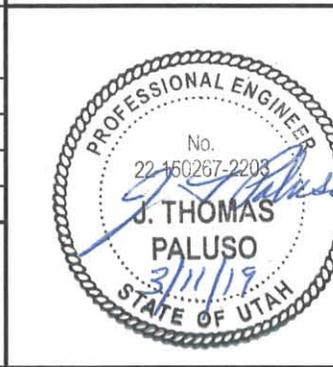
Could failure of structure create an impoundment (provide description) ? Failure of side slopes would not impound water.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes

Proctor Determination : NA

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)





REFUSE PILE SIGN



EAST SIDE OF REFUSE PILE



SOUTH SIDE OF REFUSE PILE



NORTH SIDE OF REFUSE PILE

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: DEPRESSED AREA IMPOUNDMENT

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water ~ 18" WATER
Sediment

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No

Root Penetration Yes No

E. Spillway Condition NA Good Fair Poor Needs Work

F. Decant NA Good Fair Poor Needs Work

G. Freeboard NA Good Fair Poor Needs Work

Comments/Field Information:

Inspected By

Name: J. V. Galuso 5/13/19

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: DEPRESSED AREA IMPOUNDMENT

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water _____
Sediment _____

~ 18" WATER

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No

Root Penetration Yes No

E. Spillway Condition NA Good Fair Poor Needs Work

F. Decant NA Good Fair Poor Needs Work

G. Freeboard NA Good Fair Poor Needs Work

Comments/Field Information:

Inspected By
Name: _____

J. V. Galuso 5/13/19



DEPRESSED AREA IMPOUNDMENT

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: PERMANENT IMPOUNDMENT

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)

Water DRY BOTH CELLS

Sediment _____

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No

Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

UPPER CELL HAS LOTS OF WEEDS.

Inspected By

Name: J T Palusa 5/13/19



PERMANENT IMPOUNDMENT (UPPER CELL)



PERMANENT IMPOUNDMENT (LOWER CELL)

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "A"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)

Water _____
Sediment DRY
30" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows

- Yes
- No

D. Vegetative Cover

- Yes
- No

Root Penetration

- Yes
- No

E. Spillway Condition

- Good
- Fair
- Poor
- Needs Work

F. Decant

- Good
- Fair
- Poor
- Needs Work

G. Freeboard

- Good
- Fair
- Poor
- Needs Work

Comments/Field Information:

Inspected By

Name: J. J. Palumbo 5/13/19



POND A

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "B"

A. Bank Stability

Incised 3/4
Embankment 1/4

B. Capacity (0% / 100%)
Water
Sediment

DRY
21" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

EMERGENCY SPILLWAY HAS WEEDS.

Inspected By
Name:

J. Palusa 5/13/19



POND B



POND B EMERGENCY SPILLWAY WEEDS

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "C"

A. Bank Stability

Incised
Embankment

B. Capacity (0% / 100%)
Water
Sediment

~ 24"
30.5" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No
Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

LOT OF WEEDS AT DISCHARGE PIPES.

Inspected By
Name: J J Paluso 5/13/19



POND C



POND C (WEEDS AT PRINCIPAL SPILLWAY OUTLET)

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "D"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water _____
Sediment _____

DRY
13 1/2" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No
Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

Inspected By

Name: J. V. Paluso 5/13/19



POND D

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "E"

A. Bank Stability

Incised
Embankment

B. Capacity (0% / 100%)
Water
Sediment

DRY
24" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

TREES ARE STARTING TO GROW IN SEDIMENT POND, THESE
SHOULD BE REMOVED. WEST INLET HALF ROUND CULVERT
IS BEING UNDER CUT AND NEEDS REPAIR.

Inspected By

Name: J. Paluso 5/13/19



POND E



POND E (TREES)



POND E (WEST INLET EROSION)

Sedimentation Pond Inspection

Date: May 13, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group 2, LLC Permit No. C/007/0033

Pond Number: "F"

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)
Water _____
Sediment _____

DRY
13" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows

- Yes
- No

D. Vegetative Cover

- Yes
- No

Root Penetration

- Yes
- No

E. Spillway Condition

- Good
- Fair
- Poor
- Needs Work

F. Decant

- Good
- Fair
- Poor
- Needs Work

G. Freeboard

- Good
- Fair
- Poor
- Needs Work

Comments/Field Information:

Inspected By

Name: J Y Palusz 5/13/19



POND F

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
 Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov



Quarterly Inspection Form - Refuse Disposal Areas

(please provide to DOGM promptly after inspection is complete)

Permit Number :	<u>C/007/0033</u>	Inspection Date :	<u>May 13, 2019</u>
Mine Name :	<u>Wildcat Loadout</u>	Quarter / Year :	<u>2nd Quarter 2019</u>
Mine Operator (Permittee) :	<u>Coal Energy Group 2, LLC</u>	Inspector Name :	<u>J. T. Paluso</u>
MSHA ID # :	<u>1211-UT-09-018664-01</u>	Inspector Signature :	<u>Joseph T. Paluso</u>
Facility Name / Location / Address : <u>Wildcat Loadout/5495 West 3550 North, Helper, Utah 84526</u>			

Digitally signed by Joseph T. Paluso
 DN: cn=Joseph T. Paluso, o=DES, ou=
 email=thopaluso@gracison.net, c=US
 Date: 2019.04.02 09:17:29 -0500

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
There has not been any changes made this quarter.

Refuse consists of +4 rock.

2. Lift Height / Thickness Avg NA Maximum 2' # _____ Elevation of Active Benches : NA , _____ , _____

3. Vertical Angle of Outslope(s) / Location(s) where measured NA / _____ / _____ / _____

4. Total storage capacity: 20' Height Remaining storage capacity NA Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Foundation is firm and undisturbed soil. Vegetation has been removed. Pile will not exceed 20 feet high.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Fill material is placed over compacted refuse with push tractor.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
No evidence of fires or burning

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None known. East drainage ditch needs cleaning shortly.

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
None noticed

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Cracks or scarps in slope ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Erosion of Toe ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Water impounded by structure ?	YES <input type="checkbox"/>	NO <input checked="" type="checkbox"/>
Are diversion ditches stable?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>
Is drainage positive ?	YES <input checked="" type="checkbox"/>	NO <input type="checkbox"/>

Could failure of structure create an impoundment (provide description) ? Failure of side slopes would not impound water.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes

Proctor Determination : NA

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)



REFUSE PILE SIGN



EAST DRAINAGE DITCH



WEST DRAINAGE DITCH



LOOKING SOUTH TOWARDS TOP OF REFUSE PILE

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

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Quarterly Inspection Form - Refuse Disposal Areas
 (please provide to DOGM promptly after inspection is complete)

Permit Number : C/007/0033 Inspection Date : March 9, 2019
 Mine Name : Wildcat Loadout Quarter / Year : 1st Quarter 2019
 Mine Operator (Permittee) : Coal Energy Group 2, LLC Inspector Name : J. T. Paluso
 MSHA ID # : 1211-UT-09-018664-01 Inspector Signature : Joseph T. Paluso
Digitally signed by Joseph T. Paluso
 DN: cn=Joseph T. Paluso, o=EIS, ou=
 email=interpaluso@prodccm.net, c=US
 Date: 2019.04.02 09:17:29 -0600
 Facility Name / Location / Address : Wildcat Loadout/5495 West 3550 North, Helper, Utah 84526

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
There has not been any changes made this quarter. Pile is covered with approximately 1' of snow.

Refuse consists of +4 rock.

2. Lift Height / Thickness Avg NA Maximum 2' # _____ Elevation of Active Benches : NA , _____ , _____

3. Vertical Angle of Outslope(s) / Location(s) where measured NA / _____ / _____ / _____

4. Total storage capacity: 20' Height Remaining storage capacity NA Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Foundation is firm and undisturbed soil. Vegetation has been removed. Pile will not exceed 20 feet high.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Fill material is placed over compacted refuse with push tractor.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
No evidence of fires or burning

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None known. East drainage ditch needs cleaning shortly.

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
None noticed

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

- Are there cracks or scarps in crest ? YES NO
- Is there any detectable sloughing or bulging ? YES NO
- Do slope erosion problems exist ? YES NO
- Cracks or scarps in slope ? YES NO
- Surface movements? (valley bottom, hillsides) YES NO
- Erosion of Toe ? YES NO
- Water impounded by structure ? YES NO
- Are diversion ditches stable? YES NO
- Is drainage positive ? YES NO

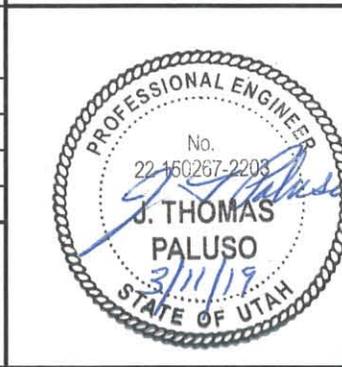
Could failure of structure create an impoundment (provide description) ? Failure of side slopes would not impound water.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes

Proctor Determination : NA

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)





REFUSE PILE SIGN



EAST SIDE OF REFUSE PILE



SOUTH SIDE OF REFUSE PILE



NORTH SIDE OF REFUSE PILE

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: DEPRESSED AREA IMPOUNDMENT

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water ~ 1' WATER
Sediment

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No

Root Penetration Yes No

E. Spillway Condition NA Good Fair Poor Needs Work

F. Decant NA Good Fair Poor Needs Work

G. Freeboard NA Good Fair Poor Needs Work

Comments/Field Information:

Inspected By
Name: J. Paluso 10/28/19



DEPRESSED AREA IMPOUNDMENT

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: PERMANENT IMPOUNDMENT

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

Sediment

BOTH CELLS DRY

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

UPPER CELL HAS A LOT OF WEEDS.

Inspected By

Name:

J. J. Palusa 10/28/19



PERMANENT IMPOUNDMENT UPPER CELL



PERMANENT IMPOUNDMENT LOWER CELL

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: A

A. Bank Stability

- Incised
- Embankment

B. Capacity (0% / 100%)

Water ~ 18"
Sediment 30" B

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No

Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

Inspected By
Name: J J Paluso 10/28/19



POND A

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: "B"

A. Bank Stability

Incised 3/4
Embankment 1/4

B. Capacity (0% / 100%)
Water
Sediment

DRY
19" BELOW CLEANOUT LEVEL

C. Evidence of Animal Burrows Yes No

D. Vegetative Cover Yes No
Root Penetration Yes No

E. Spillway Condition Good Fair Poor Needs Work

F. Decant Good Fair Poor Needs Work

G. Freeboard Good Fair Poor Needs Work

Comments/Field Information:

EMERGENCY & PRINCIPLE SPILLWAYS NEED TO HAVE WEEDS REMOVED.

Inspected By Name: J T Paluso 10/28/19



POND B



POND B WEEDS AT DISCHARGE

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: "C"

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

Sediment

~ 36"

CANNOT TELL DUE TO WATER LEVEL

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

WEEDS NEED TO BE REMOVED FROM WEST INLET AND
FROM PRINCIPLE & EMERGENCY SPILLWAYS INLET.

SOUTH INLET ROCKS ARE SINKING.

Inspected By

Name: J J Paluso 10/28/19



POND C



POND C INLET WEEDS



POND C WEST INLET WEEDS



POND C SOUTH INLET ROCKS SINKING

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: "D"

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

~2'

Sediment

CANNOT TELL DUE TO HIGH WATER

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

Inspected By

Name: J ✓ Baluso 10/28/19



POND D

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: "E"

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

DRY

Sediment

24" BELOW CLEANOUT

C. Evidence of Animal Burrows



Yes



No

D. Vegetative Cover



Yes



No

Root Penetration



Yes



No

E. Spillway Condition



Good



Fair



Poor



Needs Work

F. Decant



Good



Fair



Poor



Needs Work

G. Freeboard



Good



Fair



Poor



Needs Work

Comments/Field Information:

TREES ARE STARTING TO GROW IN SEDIMENT POND.
THESE SHOULD BE REMOVED. WEST INLET HALF ROUND
CULVERT IS BEING UNDERCUT AN NEEDS TO BE
REPAIRED.

Inspected By

Name: J T Paluso 10/28/19



POND E



POND E WEST INLET UNDERCUTTING

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: "F"

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

Sediment

DRY
12 1/2" BELOW CLEAN OUT LEVEL

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

EAST INLET NEEDS TO HAVE SEDIMENT REMOVED.

Inspected By

Name: J. Paluso 10/28/19



POND F



POND F EAST INLET SEDIMENT

Sedimentation Pond Inspection

Date: September 23, 2019

Company/Mine Name: Wildcat Loadout-Coal Energy Group, LLC Permit No: C/007/0033

Pond Number: "F"

A. Bank Stability

Incised

Embankment

B. Capacity (0% / 100%)

Water

Sediment

DRY
12 1/2" BELOW CLEAN OUT LEVEL

C. Evidence of Animal Burrows

Yes No

D. Vegetative Cover

Yes No

Root Penetration

Yes No

E. Spillway Condition

Good Fair Poor Needs Work

F. Decant

Good Fair Poor Needs Work

G. Freeboard

Good Fair Poor Needs Work

Comments/Field Information:

EAST INLET NEEDS TO HAVE SEDIMENT REMOVED.

Inspected By

Name: J. Paluso 10/28/19



POND F



POND F EAST INLET SEDIMENT

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
 Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov



Quarterly Inspection Form - Refuse Disposal Areas
 (please provide to DOGM promptly after inspection is complete)

Permit Number : C/007/0033 Inspection Date : September 23 2019
 Mine Name : Wildcat Loadout Quarter / Year : 3rd Quarter 2019
 Mine Operator (Permittee) : Coal Energy Group 2, LLC Inspector Name : J. T. Paluso
 MSHA ID # : 1211-UT-09-018664-01 Inspector Signature : Joseph T. Paluso
Digitally signed by Joseph T. Paluso
 DN: cn=Joseph T. Paluso, o=ES, ou=es, email=thopaluso@proccom.net, c=US
 Date: 2013.04.02 09:17:29 -0600
 Facility Name / Location / Address : Wildcat Loadout/5495 West 3550 North, Helper, Utah 84526

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
There has not been any changes made this quarter.

Refuse consists of +4 rock.

2. Lift Height / Thickness Avg NA Maximum 2' # Elevation of Active Benches : NA , ,

3. Vertical Angle of Outslope(s) / Location(s) where measured NA / / /

4. Total storage capacity: 20' Height Remaining storage capacity NA Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Foundation is firm and undisturbed soil. Vegetation has been removed. Pile will not exceed 20 feet high.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Fill material is placed over compacted refuse with push tractor.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
No evidence of fires or burning

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None known. East drainage ditch needs cleaning shortly.

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
None noticed

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

- Are there cracks or scarps in crest ? YES NO
- Is there any detectable sloughing or bulging ? YES NO
- Do slope erosion problems exist ? YES NO
- Cracks or scarps in slope ? YES NO
- Surface movements? (valley bottom, hillsides) YES NO
- Erosion of Toe ? YES NO
- Water impounded by structure ? YES NO
- Are diversion ditches stable? YES NO
- Is drainage positive ? YES NO

Could failure of structure create an impoundment (provide description) ? Failure of side slopes would not impound water.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes

Proctor Determination : NA

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)



SIGN



REFUSE PILE LOOKING SOUTH



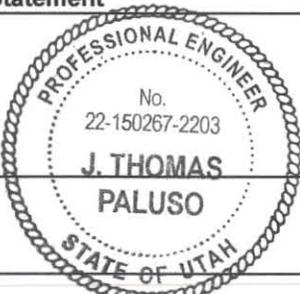
TOP OF REFUSE PILE LOOKING NORTH



EAST DRAINAGE DITCH LOOKING NORTH



WEST DRAINAGE DITCH LOOKING NORTH

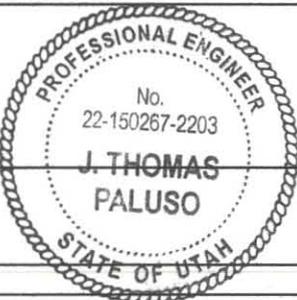
1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 17, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Permanent Impoundment	
	Impoundment Number:	Permanent Impoundment	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 0.437 ac-ft (Upper) and 1.114 ac-ft (Lower)		
	Existing Sediment Storage Capacity (To Cleanout): NA		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6195.8 Upper Cell, 6185.8 Lower Cell		
	Emergency spillway elevation: 6196.3 Upper Cell, NA Lower Cell		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outsoles of embankment erosion/repairs, monitoring information, vegetation on outsoles of embankments, etc.			
During the annual inspection, November 26, 2019, the vegetative cover looked good with no signs of erosion. There was a lot of weeds in upper cell.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The sediment ponds were dry (Upper & Lower). See the attached photograph.			
Qualified Statement	I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature: <i>J T Paluso</i>		Date: 12/17/19



PERMANENT IMPOUNDMENT UPPER CELL



PERMANENT IMPOUNDMENT LOWER CELL

1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 16, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Sediment Pond "A"	
	Impoundment Number:	A	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 2.9 ac-ft		
	Existing Sediment Storage Capacity (To Cleanout): .78 ac-ft		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6,149.0'		
	Emergency spillway elevation: 6,150.0'		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.			
During the annual inspection, November 26, 2019, there was no signs of erosion. Both spillways look good with no signs of stability problems.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The pond had approximately 18" of water and the sediment was 30" below cleanout level. The west pond inlet and outlet needs weeds removed.			
Qualified Statement		I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.	
		Signature: <i>J T Paluso</i>	Date: <i>12/16/19</i>



POND A



POND A WEST INLET WEEDS



POND A WEST OUTLET WEEDS

1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 16, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Sediment Pond "B"	
		B	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 0.41 ac-ft		
	Existing Sediment Storage Capacity (To Cleanout): 0.12 ac-ft		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6,138.0'		
	Emergency spillway elevation: 6,139.0'		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.			
During the annual inspection, November 26, 2019, there were no signs of erosion. Weeds in the emergency and by principle spillway need to be cleaned out.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The sediment pond was dry, see the attached photographs. Sediment was 19" below cleanout level.			
Qualified Statement		I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.	
		Signature: <i>J. T. Paluso</i>	Date: 12/16/19



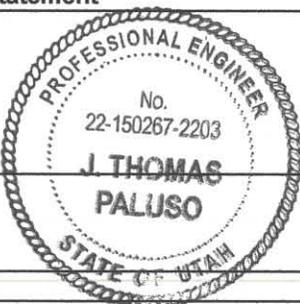
POND B



POND B WEEDS AT PRINCIPLE SPILLWAY



POND B WEEDS AT EMERGENCY SPILLWAY

1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 17, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Sediment Pond "C"	
	Impoundment Number:	C	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 4.174 ac-ft		
	Existing Sediment Storage Capacity (To Cleanout): 1.08 ac-ft (From 2018)		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6,137.0'		
	Emergency spillway elevation: 6,138.0'		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.			
During the annual inspection, November 26, 2019, the vegetative looked good. Animal hole under inlet of principle spillway needs to be filled. Emergency and principle spillway outlets need to have weeds removed.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The sediment pond had approximately 36" of water. See the attached photograph. Due to the amount of water in the pond, it was not possible to determine the existing sediment level.			
Qualified Statement	I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature: <i>J T Paluso</i>		Date: <i>12/17/19</i>



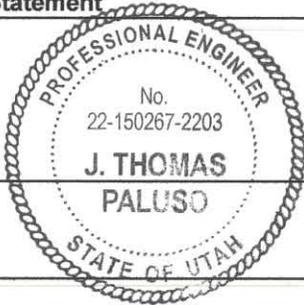
POND C



POND C WEEDS AT PRINCIPLE SPILLWAY OUTLET



POND C WEEDS AT EMERGENCY SPILLWAY OUTLET

1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 17, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Sediment Pond "D"	
	Impoundment Number:	D	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 1.131 ac-ft		
	Existing Sediment Storage Capacity (To Cleanout): 0.34 ac-ft (From 2018)		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6,139.0'		
	Emergency spillway elevation: 6,140.0'		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.			
During the annual inspection, November 26, 2019, the vegetation looked good with no signs of erosion. The emergency and principle spillway outlets need to have weeds removed. Also, the south inlet needs weeds removed. See the attached photographs.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The sediment pond had approximately 24" of water. See the attached photographs. Due to the amount of water in the pond, it was not possible to determine the existing sediment level.			
Qualified Statement	I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature: <i>J T Paluso</i>		Date: 12/17/19



POND D



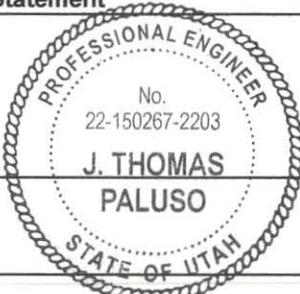
POND D WEEDS AT PRINCIPLE SPILLWAY OUTLET



POND D WEEDS AT EMERGENCY SPILLWAY OUTLET

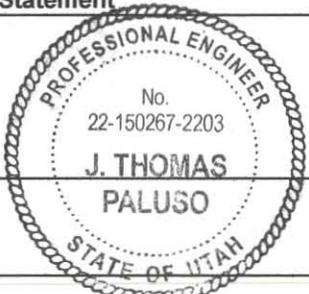


POND D WEEDS AT SOUTH INLET

1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 17, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Sediment Pond "E"	
	Impoundment Number:	E	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 1.092 ac-ft		
	Existing Sediment Storage Capacity (To Cleanout): 0.39 ac-ft		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6,145.0'		
	Emergency spillway elevation: 6,146.0'		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on out slopes of embankment erosion/repairs, monitoring information, vegetation on out slopes of embankments, etc.			
During the annual inspection, November 26, 2019, the vegetative cover looked good with no signs of erosion.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The sediment pond was dry and the sediment level was 24" below cleanout level. See the attached photograph.			
Qualified Statement	I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.		
	Signature: <i>J.T. Paluso</i>		Date: 12/17/19



POND E

1. IMPOUNDMENT INSPECTION AND CERTIFIED REPORT			Page 1 of 2
Permit Number:	ACT/007/0033	Report Date: December 17, 2019	
Mine Name:	Wildcat Loadout		
Company Name	Coal Energy Group 2, LLC		
Impoundment Identification:	Impoundment Name	Sediment Pond "F"	
	Impoundment Number:	F	
	UPDES Permit Number:	UTG040007	
	MSHA ID Number:	42-01864	
IMPOUNDMENT INSPECTION			
Inspection Date:	November 26, 2019		
Inspected By:	J.T. Paluso		
Reason for Inspection:	Annual Inspection		
(Annual, Quarterly or other Periodic Inspection, Critical Installation or Completion of Construction)			
1. Describe any appearances of any instability, structural weakness, or any other hazardous condition.			
The pond's dam shows no signs of structural instability or other hazardous conditions.			
Required for an impoundment which functions as a SEDIMENTATION POND	2. Sediment storage capacity and storage volumes.		
	Existing Storage Capacity: 0.869 ac-ft		
	Existing Sediment Storage Capacity (To Cleanout): 0.10 ac-ft		
	3. Principle and emergency spillway elevations		
	Principle spillway elevation: 6,173.0'		
	Emergency spillway elevation: 6,174.0'		
4. Field Information: Provide current water elevation, whether pond is discharging, type and number of samples taken, monitoring/instrumentation information, inlet/outlet conditions or other related activities associated with the pond including but not limited to sediment cleanout, pond decanting, embankment erosion/repairs, monitoring information, vegetation on outslopes of embankment erosion/repairs, monitoring information, vegetation on outslopes of embankments, etc.			
During the annual inspection, November 26, 2019, the vegetative cover looked good with no signs of erosion. There was sediment in the east inlet that needs to be removed. See attached photographs.			
5. Field Evaluation: Describe any changes in the geometry of the impounding structure, average and maximum depths and elevations of impounded water, estimated sediment or slurry volume and remaining storage capacity, estimated volume of water impounded and any other aspect of the impounding structure affecting its stability or function which has occurred during the reporting period.			
The sediment pond was dry. See the attached photograph. Sediment is approximately 12.5" below cleanout level.			
Qualified Statement		I hereby certify that I am experienced in the construction of impoundments; I am qualified and authorized under the direction of a Registered Professional Engineer to inspect the condition and appearance of impoundments in accordance with the certified and approved designs for this structure, that the impoundment has been maintained in accordance with approved design and meet or exceed the minimum design requirements under all applicable federal, state and local regulations; and, that inspections and inspection reports are made by myself and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.	
		Signature: <i>J.T. Paluso</i>	Date: <i>12/17/19</i>



POND F



POND F EAST INLET FILLING WITH SEDIMENT

State of Utah
DEPARTMENT OF NATURAL RESOURCES
Division of Oil, Gas & Mining

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
 Telephone (801) 538-5340 facsimile (801) 359 3940 TTY (801) 538-7458
www.ogm.utah.gov



Quarterly Inspection Form - Refuse Disposal Areas
 (please provide to DOGM promptly after inspection is complete)

Permit Number : C/007/0033 Inspection Date : November 26, 2019
 Mine Name : Wildcat Loadout Quarter / Year : 4th Quarter 2019
 Mine Operator (Permittee) : Coal Energy Group 2, LLC Inspector Name : J. T. Paluso
 MSHA ID # : 1211-UT-09-018664-01 Inspector Signature : Joseph T. Paluso

Digitally signed by Joseph T. Paluso
 DN: cn=Joseph T. Paluso, o=OGM, ou=angel@ogm.utah.gov, email=Joseph.Paluso@proclaction.net, c=US
 Date: 2019.11.26.09:17:29 -0800

Facility Name / Location / Address : Wildcat Loadout/5495 West 3550 North, Helper, Utah 84526

1. Describe any changes in the geometry of the structure (as well as instrumentation, if any, used to monitor changes):
There has not been any changes made this quarter. Pile is covered with approximately 1' of snow.

Refuse consists of +4 rock.

2. Lift Height / Thickness Avg NA Maximum 2' # Elevation of Active Benches : NA , ,

3. Vertical Angle of Outslope(s) / Location(s) where measured NA / / /

4. Total storage capacity: 20' Height Remaining storage capacity NA Volume placed during year : 0

5. Describe foundation preparation (including removal of vegetation, stumps, topsoil, and all other organic material) :
Foundation is firm and undisturbed soil. Vegetation has been removed. Pile will not exceed 20 feet high.

6. Describe placement and compaction of fill materials (including an explanation of how compaction is confirmed) :
Fill material is placed over compacted refuse with push tractor.

7. Is there any evidence of fires or burning on the structure ? (If YES, specify extent, location, and abatement/extinguishment of such fires) :
No evidence of fires or burning

8. Describe placement of under drains, protective filter systems, and final surface drainage systems (report any seepage, including location, color, flow) :
None known. East drainage ditch needs cleaning shortly.

9. Describe any appearances of instability, structural weakness, or other hazardous conditions :
None noticed

10. Please provide any other information pertaining to the stability of the structure (attach any photos taken during the inspection)

Are there cracks or scarps in crest ?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Is there any detectable sloughing or bulging ?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Do slope erosion problems exist ?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Cracks or scarps in slope ?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Surface movements? (valley bottom, hillsides)	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Erosion of Toe ?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Water impounded by structure ?	YES	<input type="checkbox"/>	NO	<input checked="" type="checkbox"/>
Are diversion ditches stable?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>
Is drainage positive ?	YES	<input checked="" type="checkbox"/>	NO	<input type="checkbox"/>

Could failure of structure create an impoundment (provide description) ? Failure of side slopes would not impound water.

Are design standards established within the mining and reclamation plan for the disposal facility being met ?
Yes

Proctor Determination : NA

I hereby certify that: I am experienced in the construction of earth and rock fills; I am qualified and authorized in the State of Utah to inspect and certify the condition and appearance of earth and rock fills in accordance with structure; that the fill structure has been maintained in accordance with the approved design and meets or exceeds the minimum design requirements under all applicable federal, state, and local regulations; and, that inspections and inspection reports are made by myself or under my direction and include any appearances of instability, structural weakness or other hazardous conditions of the structure affecting stability.

(place P.E. certification below)



REFUSE PILE SIGN



REFUSE PILE NORTH SIDE



REFUSE PILE WEST DRAINAGE DITCH



REFUSE PILE EAST DRAINAGE DITCH

**WILDCAT COAL FINES ISSUE
DIVISION ORDER-04 (WIND BLOWN FINES)
SECOND QUARTER 2017**

June 12, 2019

Prepared for:

COAL ENERGY GROUP 2, LLC



Prepared by:

**J. T. Paluso, P.E.
EIS ENVIRONMENTAL & ENGINEERING CONSULTING
31 NORTH MAIN**

HELPER, UTAH

INTRODUCTION

The purpose of this report is to provide yearly information on coal fines accumulation at the Wildcat Loadout as described in Appendix P, Response to Division Order DO-04 (Wind Blown Fines), Page 7, “Conduct future monitoring of wind-blown fines”. The coal fines monitoring procedure was revised as per DOGM’s meeting at Wildcat conducted on January 23, 2014. The quarterly monitoring was also changed by DOGM in 2016 to require only yearly monitoring during the second quarter of the year.

PROCEDURE

New monitoring points were installed during the first quarter of 2014. The new procedure was described in a memo sent to Pete Hess (DOGM) dated March 13, 2014. This new procedure described the method to be used for future coal fines and vegetation monitoring at the Wildcat Loadout. The approved procedure required the installation of new monitoring points within the permit boundary and also outside of the permit boundary. Monitoring of vegetation growth will now be conducted only during the second quarter of each year.

There are now 21 sampling points on the Northern Area and 16 sampling points on the Southern Area. Figure 1 shows the sampling points and Figure 2 shows the areas that are of concern. Each point was located with a GPS. Refer to Appendix 1 for the GPS coordinate location of each point.

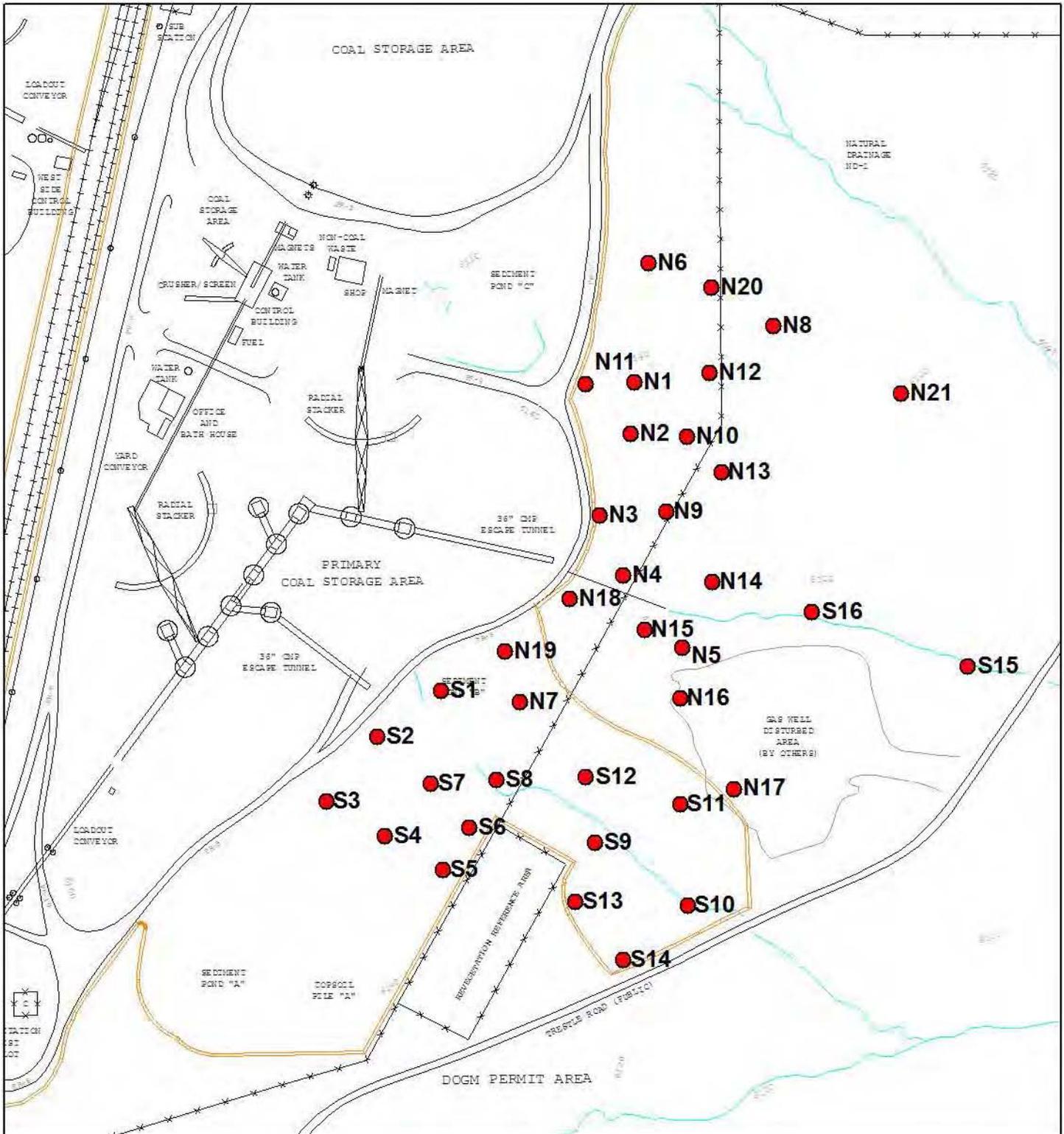
The depth of coal fines were measured at the stake. These measurements can be found on the Ground Cover Information Spreadsheet in Appendix 2. The average coal depth for the Northern and Southern Areas were calculated and is also shown on this sheet. At some sampling points, wind and water transports coal and soil fines to and from various monitoring points. The observed material at the surface (coal or soil) is what is recorded at each stake.

CONCLUSION

The coal fines and vegetation measurements were taken on June 12, 2019. The results of the measurements indicated that the average coal fines cover on the Northern Area has remained stable at 0.14 inches. The Southern Area has also remained stable at 0.19 inches. Only one train has been loaded since January 1, 2015, at the Wildcat Loadout. This lack of train loading and the wind and precipitation events have caused the average coal ground cover to change. The coal fines coverage in the Northern Area has decrease compared to the second quarter of 2018. The Northern Area went from 4.07% to 0.46%. The Southern Area increased from 0.81% to 8.07%. This increase was due the author classifying S1 as coal rather than soil.

The two areas had an increase of vegetative cover compared to the second quarter of 2018. The Northern Area went from 38.23% to 58.54%. The Southern Area also had an increase from 20.59% to 34.98%. The area had an above average precipitation in 2019, which could account for the increase in vegetation. Unfortunately the majority of the plant growth is still of the weed variety, mainly Russian thistle (Tumble Weed). There are still large areas that vegetation has not started growing. Please refer to the attached photographs.

WILDCAT LOADOUT



● Random Photograph Sites

Environmental Industrial Services
 Environmental & Engineering Consulting

31 North Main Street
 Helper, Utah 81526
 Office: (435) 472-3514
 Fax: (435) 172-8780
 EHS@preciscom.net
 www.EI-Services.com

Feet

0 110 220 330

N

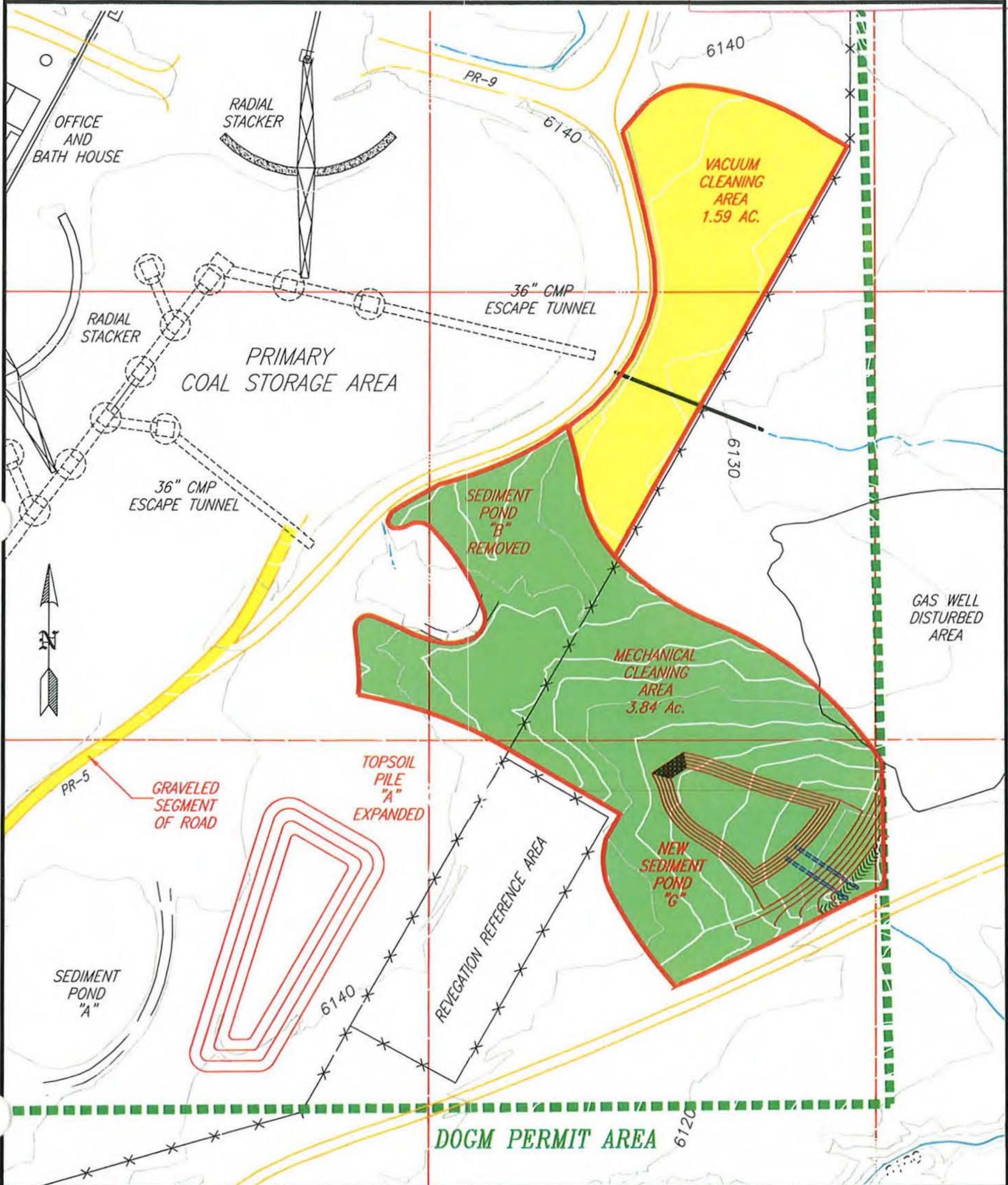
FIGURE 1

INCORPORATED
EFFECTIVE:

OCT 18 2010

UTAH DIVISION OIL, GAS AND MINING
PRICE FIELD OFFICE

WILDCAT LOADOUT
COAL FINES CLEAN-UP AREA
RESPONSE TO D0-04
FIGURE 2



APPENDIX 1
GPS COORDINATE LOCATION

Wildcat Loadout
Random Photograph Site Coordinates
All Coordinates in NAD 83

Name	Northing	Easting
N1	4388883.298	507251.984
N2	4388857.593	507250.164
N3	4388817.239	507234.904
N4	4388787.278	507246.718
N5	4388751.355	507276.069
N6	4388942.709	507259.085
N7	4388724.731	507187.675
N8	4388911.456	507321.233
N9	4388817.19	507263.082
N10	4388856.487	507278.12
N11	4388882.392	507227.824
N12	4388887.813	507289.428
N13	4388600.376	507323.119
N14	4388580.381	507311.915
N15	4388560.83	507300.496
N16	4388540.265	507287.518
N17	4388877.752	507384.593
N18	4388775.637	507220.054
N19	4388749.681	507187.688
N20	4388930.365	507290.383
N21	4388877.752	507384.593
S1	4388730.197	507148.488
S2	4388707.485	507124.338
S3	4388675.136	507091.473
S4	4388657.906	507120.464
S5	4388641.241	507149.536
S6	4388662.058	507162.426
S7	4388684.104	507143.486
S8	4388686.032	507175.9
S9	4388654.465	507224.755
S10	4388623.652	507270.843
S11	4388673.547	507267.177
S12	4388687.237	507220.312
S13	4388625.264	507215.195
S14	4388596.345	507239.016
S15	4388742.365	507417.549
S16	4388769.154	507340.304

APPENDIX 2

GROUND COVER INFORMATION SPREADSHEET & FIELD WORK SHEETS

GROUND COVER INFORMATION SPREADSHEET								
2nd QUARTER 2019								
LOCATION	VEGETATION SQUARES	VEGETATION (COVER %)	SOIL SQUARES	SOIL (COVER %)	COAL FINES SQUARES	COAL FINES (COVER %)	COAL FINES (IN) AT STAKE	COMMENTS
N1	192.25	85.44	32.75	14.56	0		0.00	
N2	89	39.56	136	60.44	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
N3	74.5	33.11	150.5	66.89	0	0.00	0.00	
N4	183.25	81.44	41.75	18.56	0	0.00	0.00	
N5	207	92.00	18	8.00	0	0.00	0.00	
N6	213	94.67	12	5.33	0	0.00	2.00	
N7	4	1.78	199.25	88.56	21.75	9.67	1.00	
N8	147.5	65.56	77.5	34.44	0	0.00	0.00	
N9	170.25	75.67	54.75	24.33	0	0.00	0.00	
N10	134	59.56	91	40.44	0	0.00	0.00	
N11	126	56.00	99	44.00	0	0.00	0.00	
N12	73	32.44	152	67.56	0	0.00	0.00	
N13	78.5	34.89	146.5	65.11	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
N14	153	68.00	72	32.00	0	0.00	0.00	
N15	189	84.00	36	16.00	0	0.00	0.00	
N16	88.5	39.33	136.5	60.67	0	0.00	0.00	
N17	179	79.56	46	20.44	0	0.00	0.00	
N18	72.75	32.33	152.25	67.67	0	0.00	0.00	
N19	85.5	38.00	139.5	62.00	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
N20	127.25	56.56	97.75	43.44	0	0.00	0.00	
N21	178.75	79.44	46.25	20.56	0	0.00	0.00	
AVERAGE		58.54		41.00		0.46	0.14	
S1	0	0.00	4.75	2.11	220.25	97.89	3.00	
S2	31.75	14.11	183	81.33	10.25	4.56	0.00	*Trace amounts are recorded as 0.00 depth
S3	65.5	29.11	159.5	70.89	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
S4	16	7.11	209	92.89	0	0.00	0.00	
S5	155.5	69.11	69.5	30.89	0	0.00	0.00	
S6	67.5	30.00	130.75	58.11	26.75	11.89	0.00	*Trace amounts are recorded as 0.00 depth
S7	109	48.44	82.75	36.78	33.25	14.78	0.00	*Trace amounts are recorded as 0.00 depth
S8	164	72.89	61	27.11	0	0.00	0.00	
S9	176.75	78.56	48.25	21.44	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
S10	178	79.11	47	20.89	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
S11	14.75	6.56	210.25	93.44	0	0.00	0.00	
S12	7	3.11	218	96.89	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
S13	21.25	9.44	203.75	90.56	0	0.00	0.00	*Trace amounts are recorded as 0.00 depth
S14	78	34.67	147	65.33	0	0.00	0.00	
S15	65.25	29.00	159.75	71.00	0	0.00	0.00	
S16	109	48.44	116	51.56	0	0.00	0.00	
AVERAGE		34.98		56.95		8.07	0.19	

APPENDIX 3
PHOTOGRAPHS



N1



N2



N3



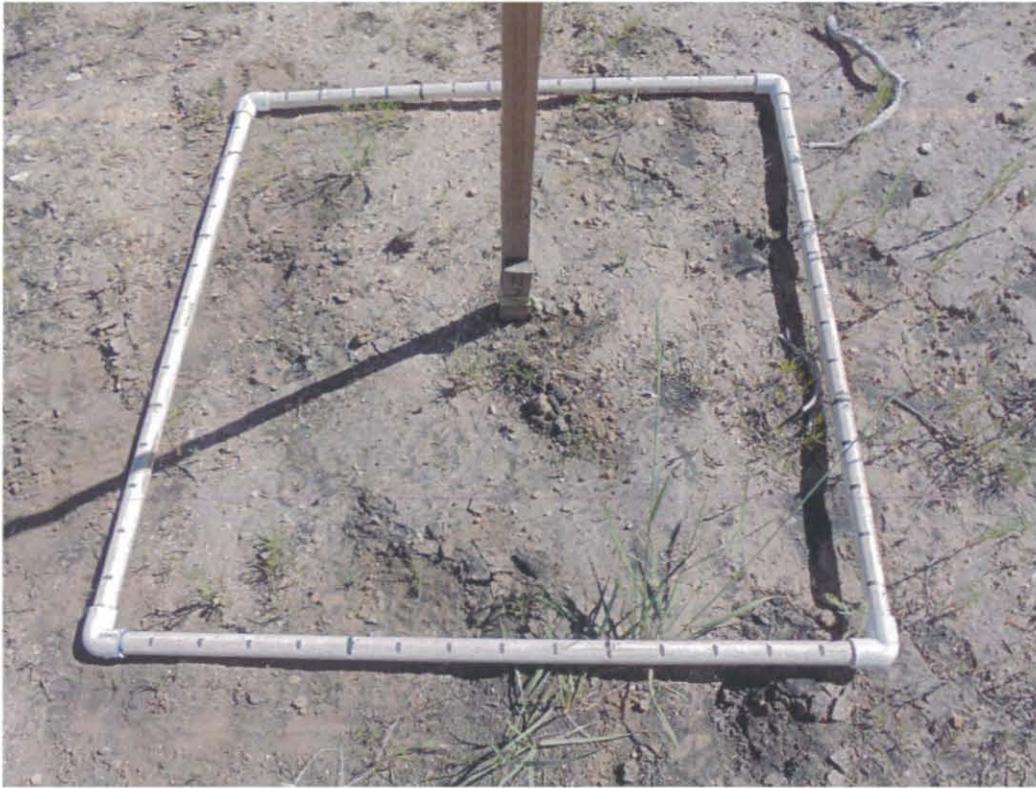
N4



N5



N6



N7



N8



N9



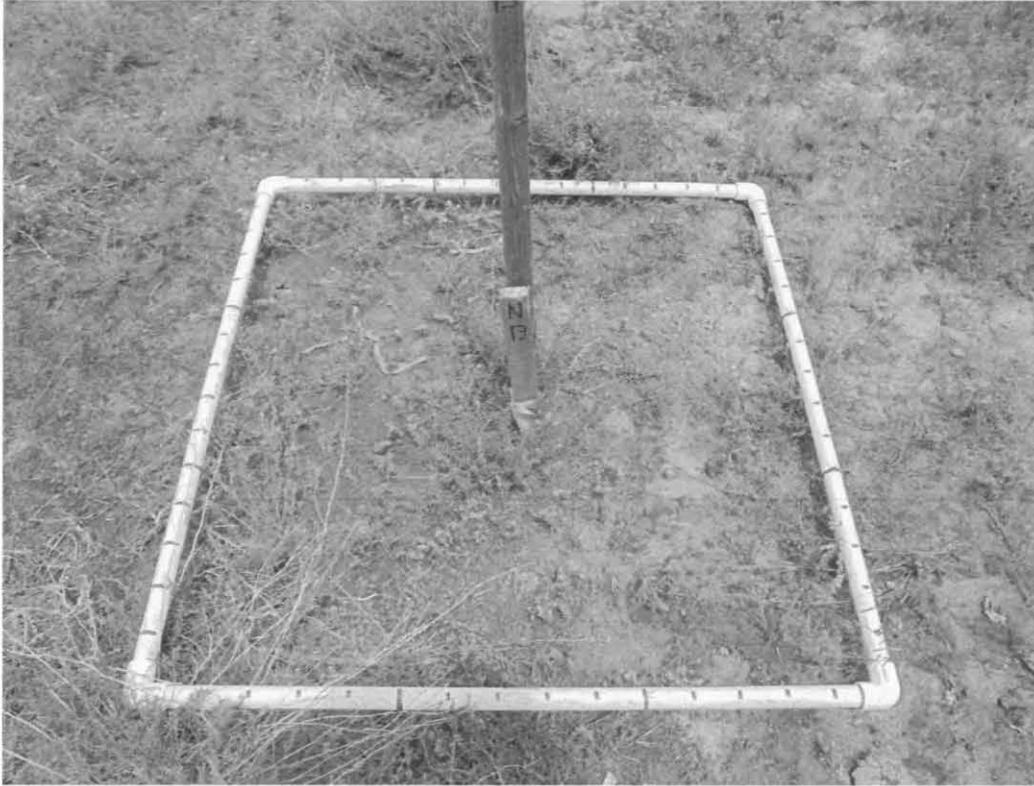
N10



N11



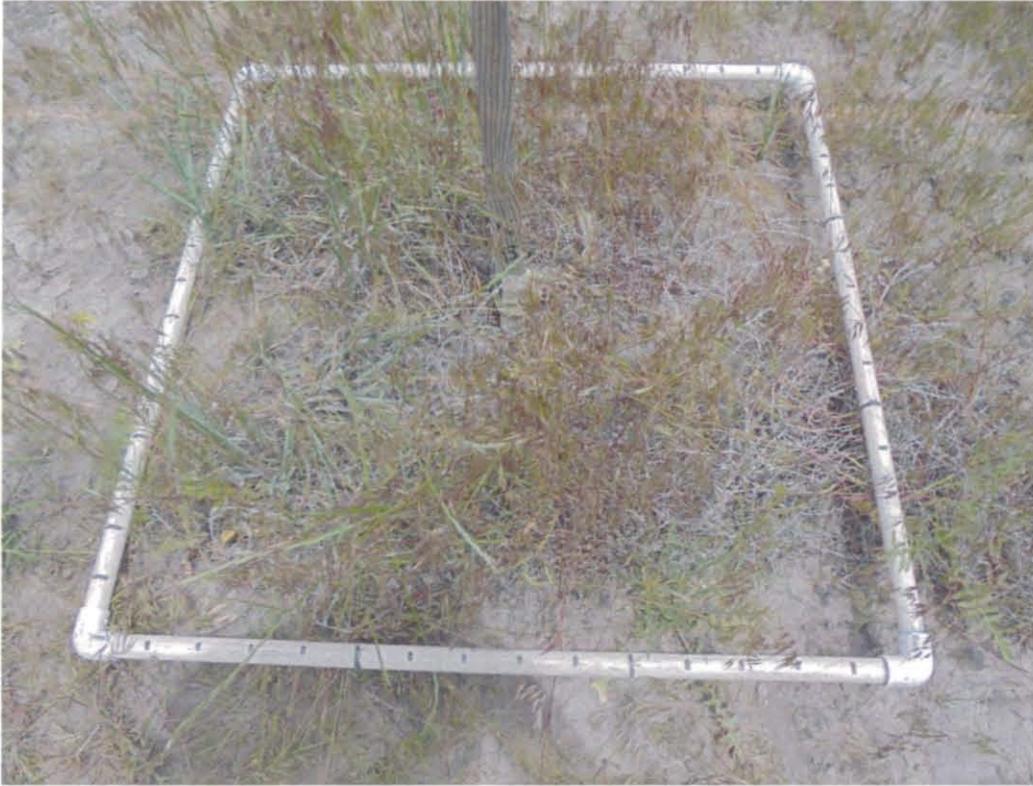
N12



N13



N14



N15



N16



N17



N18



N19



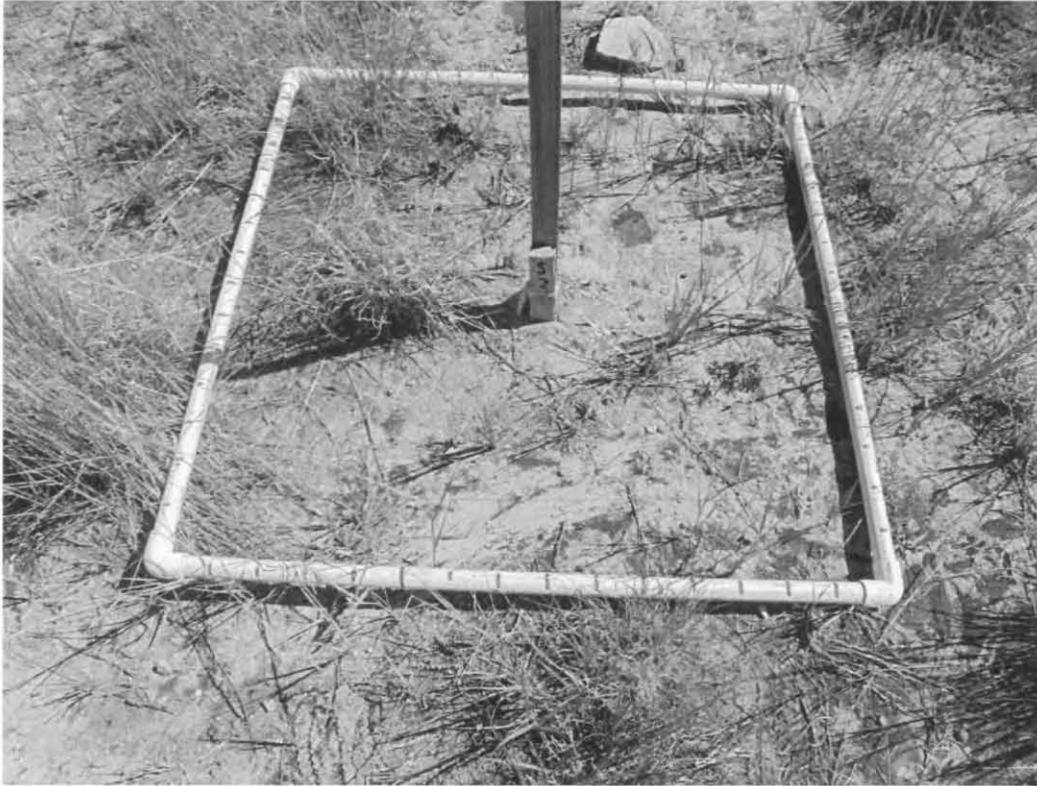
N20



N21



S1



S2



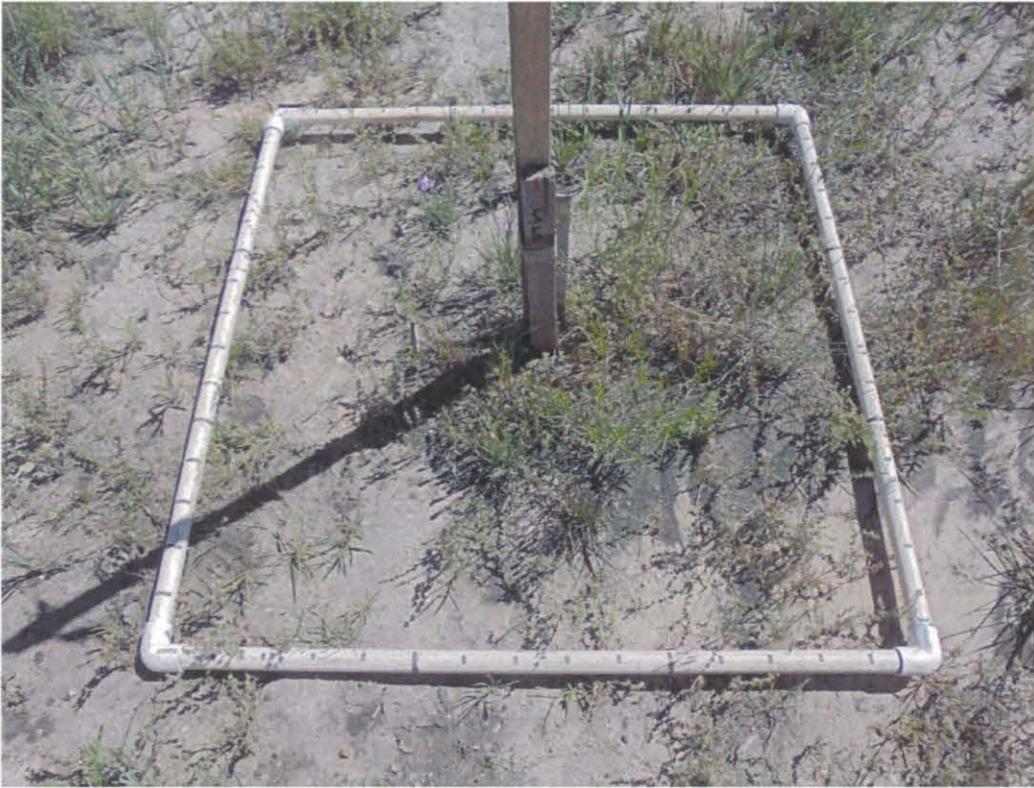
S3



S4



S5



S6



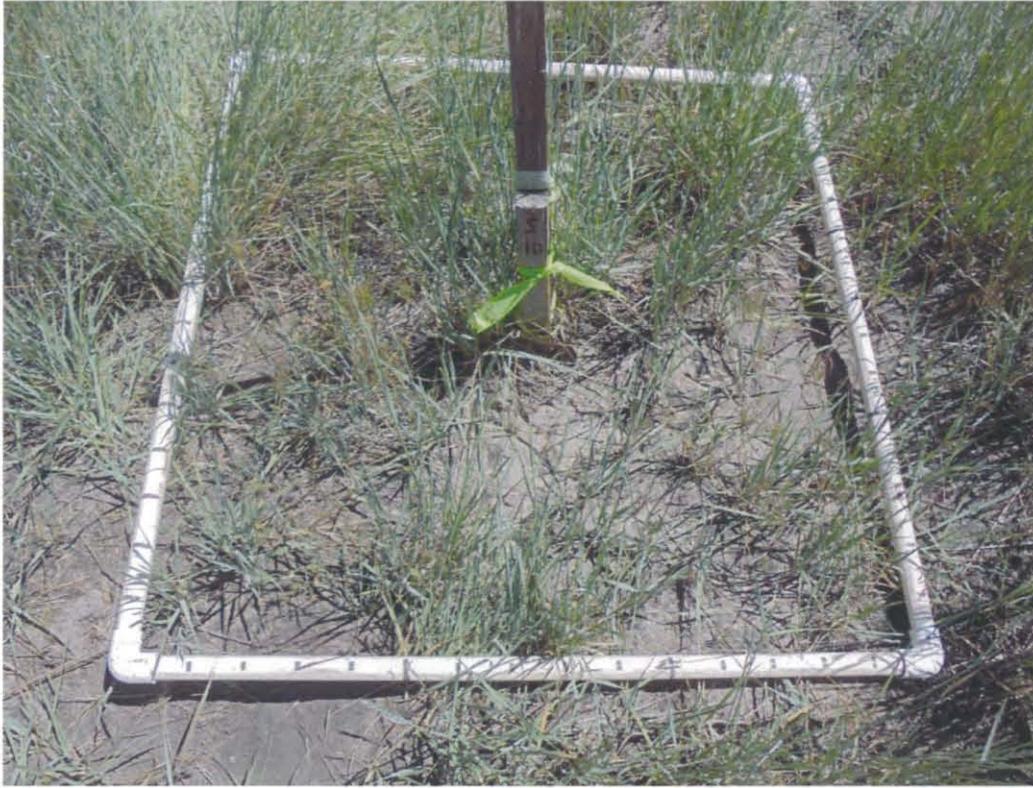
S7



S8



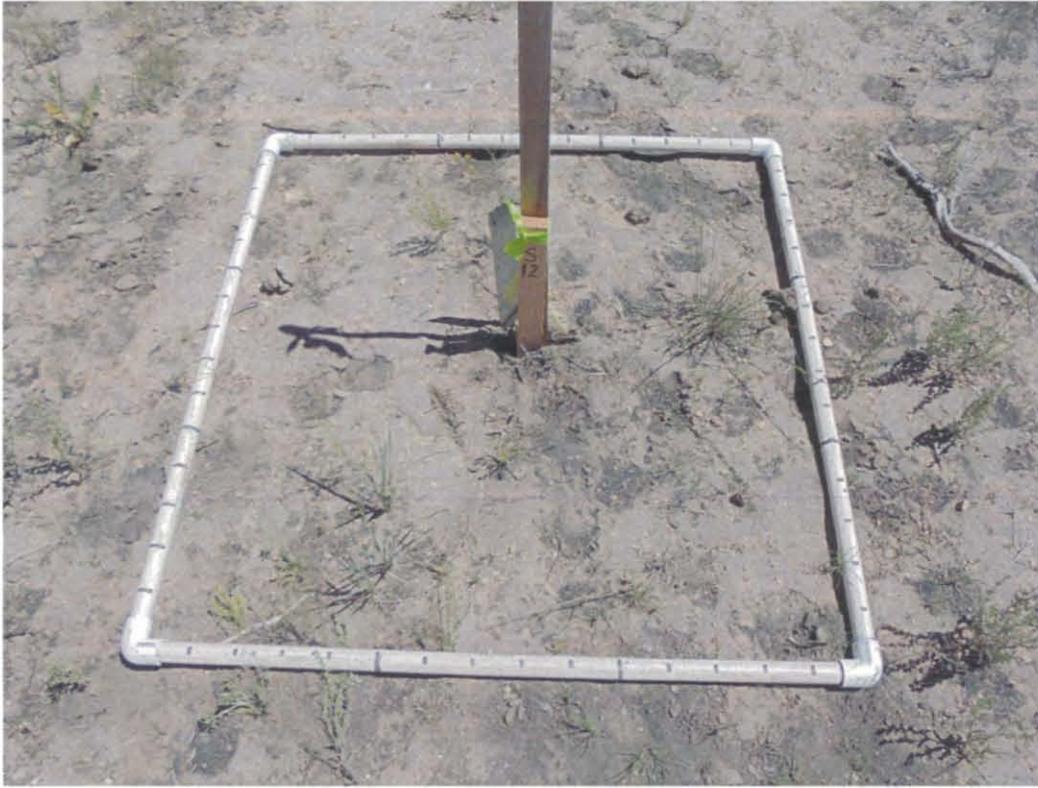
S9



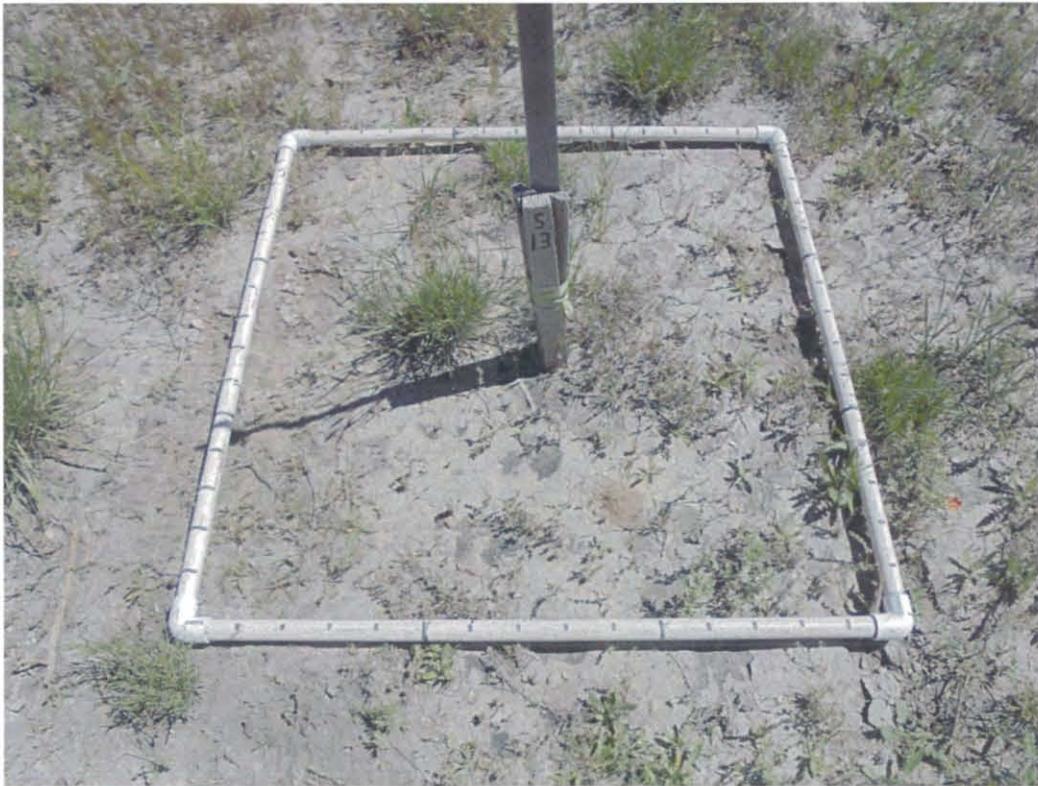
S10



S11



S12



S13



S14



S15



S16



ABOVE N6 LOOKING EAST



AT N1 LOOKING SOUTH



AT N21 LOOKING WEST



AT N16 LOOKING NORTH