Suzanne Steab <suzannesteab@utah.gov>

16_2 Bond Release Application Package - Invitation to collaborate

Kirk Nicholes (via Google Drive) <drive-shares-noreply@google.com> Wed, Dec 14, 2016 at 11:50 PM
Reply-To: Kirk Nicholes <knicholes@linux2.ogm.utah.gov>
To: SUZANNESTEAB@utah.gov
Cc: SuzanneSteab@linux2.ogm.utah.gov, daronhaddock@utah.gov, stevechristensen@utah.gov

Kirk Nicholes has invited you to **contribute to** the following shared folder:

16_2 Bond Release Application Package

Suzanne,

I have uploaded the Soil accounting and analytical for the bond release areas that Priscilla has requested

Kirk

Open

Google Drive: Have all your files within reach from any device.

Google Inc. 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Daron R. Haddock
Coal Program Manager
Oil, Gas & Mining
1594 West North Temple, Suite 1210
Salt Lake City, UT 84114-5801

Re: **Phase 1 Bond Release, Alton Coal Development, LLC, Coal Hollow Project, Kane County, Utah, C/025/0005**

Dear Mr. Haddock:

Pursuant to R645-301-880.300, enclosed on behalf of Alton Coal Development, LLC is a copy of the application for Phase 1 Bond Release for select areas of the Coal Hollow Mine as follows:

- Application for Phase 1 Bond Release
- C1 and C2 Forms
- Public Notice for Bond Release Application
- Plan view and cross-section Figures of "Proposed Phase 1 Bond Release"

Also, as required by R645-301-880.600, notifications of the proposed bond release have been made to the following:

- Southern Utah News
- Alecia Swapp Dame Trust - Richard Dame
- C. Burton Pugh
- Heaton Brothers, LLC
- Keith R. & Anne Marie Stanworth
- William and Helen Mackelprang
- G. Ferril and Dorothy M. Heaton
- Dean R. Heaton

- BLM-KFO
- Darlynn Sorensen
- Kane County Planning Commission
- Kane County Water Conservancy District
- Alton Mayor – Alton, Utah

Please contact me at 435-691-1551 should you have any questions or comments. This submittal is being provided electronically, a hard copy with certified drawings will follow.

Sincerely

B. Kirk Nicholes
Environmental Specialist

Application for Phase 1 Bond Release
Coal Hollow Mine

Alton Coal Development, LLC
463 N 100 W, Suite 1
Cedar City, UT 84721

Permit # C/025/0005
Permit Approval 11/08/2010

Alton Coal Development, LLC ("ACD") files this application with the Utah Division of Oil, Gas and Mining for Phase 1 Bond Release for 21.288 acres of the Coal Hollow Mine, C/025/0005.

ACD has met the requirements of the Coal Hollow Mine ("CHM"), Mining and Reclamation Plan ("MRP") and the Utah Coal Rules as to the backfilling and grading standards (refer to Chapter 5, section 553) for Phase I Bond Release (refer to R645-301-880.300). Pre-mining overburden chemical analysis and a discussion of the potential effects on plants growth and water quality are found in Chapter 6 Appendix 6-2, Chapter 2 Section 240 and Chapter 7 Section 728 respectively of the CHM MRP. Pre-mining subsoil chemical analysis and proscribed replacement depths are found in Chapter 2 Appendix 2-1 Section 5 of the MRP. Phase II or Phase III requirements such as topsoil placement dates, chemical analysis or established plant growth are not considered as part of this Phase I release. No sediment control structures have been included as part of this release, and all bond associated with these structures remains unchanged. This application for Phase 1 bond release is for the following described areas of the Coal Hollow Mine ("Reclaimed Coal Mine"):

I. LEGAL DESCRIPTION.

1. BRP1 - 9

The following described lands located in Kane County, Utah within the E 1/4 of Sec. 30, T39S, R5W:

Beginning at a point N 46°17'50" W a distance of 248.1889'from the Quarter Corner of Section 29 & 30 of T39S, R5W; thence N 01°39'44" W a distance of 269.37'; thence N 20°31'55" W a distance of 98.49'; thence S 77°17'50" W a distance of 575.38'; thence S 01°27'01" E a distance of 257.67'; thence S 00°32'10" W a distance of 323.33'; thence S 19°00'15" E a distance of 132.38'; thence N 85°50'39" E a distance of 266.93'; thence N 43°29'49" E a distance of 221.74'; thence N 25°24'41" E a distance of 322.05'; which is the point of beginning, having an area of 395,324.74 square feet, **9.075** acres.

BRP1 - 9 includes the former HWT 2-B and HWT 3-B of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 9** was completed in June. 2016.

2. BRP1 - 10

The following described lands located in Kane County, Utah within the W half of the NE 1/4 of Sec. 13, T39S, R6W:

Beginning at a point N 82°10'40 W a distance of 1,824.76' from the Quarter Corner of Section 13 of T39S, R6W & 18 of T39S, R5W"; thence N 07°31'24" W a distance of 666.91'; thence N 00°55'38" W a distance of 622.13'; thence S 88°15'55" W a distance of 96.88'; thence S

47°50'41" W a distance of 105.77'; thence S 47°50'41" W a distance of 30.28'; thence S 76°01'14" W a distance of 127.25'; thence S 76°01'14" W a distance of 101.68'; thence S 50°15'30" W a distance of 17.51'; thence S 15°23'27" W a distance of 21.05'; thence S 04°50'11" E a distance of 171.92'; thence S 00°37'55" W a distance of 313.60'; thence S 48°20'36" E a distance of 49.23'; thence S 00°00'00" E a distance of 132.89'; thence S 43°22'19" W a distance of 52.57'; thence S 00°04'20" W a distance of 261.05'; thence S 67°33'15" E a distance of 11.06'; thence S 56°42'34" E a distance of 86.91'; thence S 57°57'02" E a distance of 54.71'; thence S 57°57'02" E a distance of 69.24'; thence S 67°44'42" E a distance of 152.71'; thence N 83°15'32" E a distance of 196.98'; which is the point of beginning, having an area of 532,003.21 square feet, **12.213** acres.

BRP1 - 10 includes the former Pits 1, Pit 2 and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 10** was completed in October 2016.

II. SURETY BOND REDUCTION

The Phase I bond release application is for a liability reduction of $ 2,985,984 from the current disturbance liability of $ 12,579,751. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

III. PUBLIC NOTICE

As required by R645-301-880.600, notification of the proposed bond release has been made to the following:

- Southern Utah News
- Alecia Swapp Dame Trust - Richard Dame
- C. Burton Pugh
- Heaton Brothers, LLC
- Keith R. Anne Marie Stanworth
- William and Helen Mackelprang
- G. Ferril and Dorothy M. Heaton
- Dean R. Heaton
- BLM-KFO
- Darlynn Sorensen

- Kane County Planning Commission
- Kane County Water Conservancy District
- Alton Mayor – Alton, Utah

Copies of these notices are attached.

IV. CERTIFICATION

I hereby certify to the best of my information and belief that all information contain in this request for bond release is true and correct, to the best of my knowledge and that all applicable reclamation activities have been accomplished in accordance with the requirement of the Act, the regulatory program and the approved reclamation plan.

By B. Kit Whetman

Title Environmental Specialist

Subscribed and Sworn to before me this 3 day of Nov, 2015.

Notary Public Vance Whetman

My Commission Expires: Aug 8th, 2020

Attest: State of Utah

County of Iron

VANCE WHETMAN
NOTARY PUBLIC
STATE OF UTAH
REGISTRATION #690545
My Commission Expires August 8, 2020

PUBLIC NOTICE PHASE I BOND RELEASE APPLICATION
COAL HOLLOW MINE,
ALTON COAL DEVELOPMENT, LLC

Public Notice
Phase I Bond Release Application
Coal Hollow Mine (CHM)
Alton Coal Development, LLC
463 N 100 W, Suite 1
Cedar City, UT 84721
MSHA # 42-02519
Permit # C/025/0005
Permit Approval 11/08/2010

Notice is hereby given that Alton Coal Development, LLC has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of the Coal Hollow Mine ("CHM " or the "Reclaimed Coal Mine").

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 9 -** A portion of the CHM within the E 1/4 of Sec. 30, T39S, R5W, containing **9.075** acres. **BRP1 - 9** includes the former HWT 2-B and HWT 3-B of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 9** was completed in June 2016.
>
> **BRP1 - 10 -** A portion of the CHM within the W half of the NE ¼ of Sec. 13, T39S, R6W, containing **12.213** acres. **BRP1 - 10** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 10** was completed in October 2016.

The Phase I bond release application is for a liability reduction of $ 2,985,984 from the current disturbance liability of $ 12,579,751. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Nov. 10th, 17th, & 24th and Dec. 1st.

APPLICATION FOR COAL PERMIT PROCESSING

Permit Change ☐ New Permit ☐ Renewal ☐ Exploration ☐ Bond Release ☒ Transfer ☐

Permittee: Alton Coal Development, LLC
Mine: Coal Hollow Mine **Permit Number:** C/025/0005
Title: Phase 1 Bond Release

Description, Include reason for application and timing required to implement:
Phase 1 Bond Release Application

Instructions: If you answer yes to any of the first eight questions, this application may require Public Notice publication.

☐ Yes ☒ No 1. Change in the size of the Permit Area? Acres: _____ Disturbed Area: _____ ☐ increase ☐ decrease.
☐ Yes ☒ No 2. Is the application submitted as a result of a Division Order? DO# _____
☐ Yes ☒ No 3. Does the application include operations outside a previously identified Cumulative Hydrologic Impact Area?
☐ Yes ☒ No 4. Does the application include operations in hydrologic basins other than as currently approved?
☐ Yes ☒ No 5. Does the application result from cancellation, reduction or increase of insurance or reclamation bond?
☒ Yes ☐ No 6. Does the application require or include public notice publication?
☐ Yes ☒ No 7. Does the application require or include ownership, control, right-of-entry, or compliance information?
☐ Yes ☒ No 8. Is proposed activity within 100 feet of a public road or cemetery or 300 feet of an occupied dwelling?
☐ Yes ☒ No 9. Is the application submitted as a result of a Violation? NOV # _____
☐ Yes ☒ No 10. Is the application submitted as a result of other laws or regulations or policies?
Explain: _____
☒ Yes ☐ No 11. Does the application affect the surface landowner or change the post mining land use?
☐ Yes ☒ No 12. Does the application require or include underground design or mine sequence and timing? (Modification of R2P2)
☐ Yes ☒ No 13. Does the application require or include collection and reporting of any baseline information?
☐ Yes ☒ No 14. Could the application have any effect on wildlife or vegetation outside the current disturbed area?
☐ Yes ☒ No 15. Does the application require or include soil removal, storage or placement?
☐ Yes ☒ No 16. Does the application require or include vegetation monitoring, removal or revegetation activities?
☐ Yes ☒ No 17. Does the application require or include construction, modification, or removal of surface facilities?
☐ Yes ☒ No 18. Does the application require or include water monitoring, sediment or drainage control measures?
☒ Yes ☐ No 19. Does the application require or include certified designs, maps or calculation?
☐ Yes ☒ No 20. Does the application require or include subsidence control or monitoring?
☐ Yes ☒ No 21. Have reclamation costs for bonding been provided?
☐ Yes ☒ No 22. Does the application involve a perennial stream, a stream buffer zone or discharges to a stream?
☐ Yes ☒ No 23. Does the application affect permits issued by other agencies or permits issued to other entities?
☐ Yes ☒ No 24. Does the application include confidential information and is it clearly marked and separated in the plan?

Please attach three (3) review copies of the application. If the mine is on or adjacent to Forest Service land please submit four (4) copies, thank you. (These numbers include a copy for the Price Field Office)

I hereby certify that I am a responsible official of the applicant and that the information contained in this application is true and correct to the best of my information and belief in all respects with the laws of Utah in reference to commitments, undertakings, and obligations, herein.

B. Kirk Nicholes	Environmental Specialist	11/02/2016	B. Kirk Nicholes
Print Name	Position	Date	Signature (Right-click above choose certify then have notary sign below)

Subscribed and sworn to before me this 3 day of NOV, 2016

Notary Public: Vance Whetman, state of Utah.

My commission Expires: August 8, 2020
Commission Number: 690545
Address: 444 S Main
City: Cedar City State: UT Zip: 84720

} ss:

VANCE WHETMAN
NOTARY PUBLIC
STATE OF UTAH
REGISTRATION #690545
My Commission Expires August 8, 2020

For Office Use Only:	Assigned Tracking Number:	Received by Oil, Gas & Mining

Form DOGM- C1 (Revised December 10, 2007)

APPLICATION FOR COAL PERMIT PROCESSING
Detailed Schedule Of Changes to the Mining And Reclamation Plan

Permittee: Alton Coal Development, LLC
Mine: Coal Hollow Mine
Permit Number: C/025/0005
Title: Phase 1 Bond Release

Provide a detailed listing of all changes to the Mining and Reclamation Plan, which is required as a result of this proposed permit application. Individually list all maps and drawings that are added, replaced, or removed from the plan. Include changes to the table of contents, section of the plan, or other information as needed to specifically locate, identify and revise the existing Mining and Reclamation Plan. Include page, section and drawing number as part of the description.

			DESCRIPTION OF MAP, TEXT, OR MATERIAL TO BE CHANGED
☒ Add	☐ Replace	☐ Remove	Figures 1, 1-A, and 1-B, Figures 2 and 2A (add to end of Chapter 8 Drawing section)
☒ Add	☐ Replace	☐ Remove	Appendix 2-2 (end of appendix)
☐ Add	☐ Replace	☐ Remove	
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Any other specific or special instruction required for insertion of this proposal into the Mining and Reclamation Plan.	Received by Oil, Gas & Mining

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Alecia Swapp Dame Trust
c/o Richard Dame, Trustee
1620 Georgia Ave.
Boulder City, Nevada 89005

Dear Mr. Dame:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine). A portion of the area subject to the Phase I Bond Release is leased by ACD from the Alecia Swapp Dame Trust.

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 9 -** A portion of the CHM within the E 1/4 of Sec. 30, T39S, R5W, containing **9.075** acres. **BRP1 - 9** includes the former HWT 2-B and HWT 3-B of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 9** was completed in June 2016.
>
> **BRP1 - 10 -** A portion of the CHM within the W half of the NE ¼ of Sec. 13, T39S, R6W, containing **12.213** acres. **BRP1 - 10** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 10** was completed in October 2016.

The Phase I bond release application is for a liability reduction of $ 2,985,984 from the current disturbance liability of $ 12,579,751. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act

of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Nov. 10th, 17th, & 24th and Dec. 1st.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

C. Burton Pugh
533 N 650 E.
Lindon, Utah 84042-1567

Dear Mr. Pugh:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine). A portion of the area subject to the Phase I Bond Release is leased by ACD from C. Burton Pugh.

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 9 -** A portion of the CHM within the E 1/4 of Sec. 30, T39S, R5W, containing **9.075** acres. **BRP1 - 9** includes the former HWT 2-B and HWT 3-B of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 9** was completed in June 2016.
>
> **BRP1 - 10 -** A portion of the CHM within the W half of the NE ¼ of Sec. 13, T39S, R6W, containing **12.213** acres. **BRP1 - 10** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 10** was completed in October 2016.

The Phase I bond release application is for a liability reduction of $ 2,985,984 from the current disturbance liability of $ 12,579,751. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act

of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Nov. 10th, 17th, & 24th and Dec. 1st.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Heaton Brothers, LLC
P.O. Box 100008
Alton, Utah 84710

To whom it may concern:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

BRP1 - 6 - A portion of the CHM within the N ½ of the N1/2 of Sec. 30, T39S, R5W, containing **2.898** acres. **BRP1 - 6** includes the former Pit 1-B that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 6** was completed in Feb. 2016.

BRP1 - 7 - A portion of the CHM within the NE 1/4 of Sec. 30 and the S 1/2 of the SE ¼ of Sec. 19, T39S, R5W, containing **25.822** acres. **BRP1 - 7** includes the former Pits 9-B, HWT 1-B, and HWT 2-A that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 7** was completed in Feb. 2016.

BRP1 - 8 - A portion of the CHM within the E 1/2 of the E 1/2 of Sec. 30, T39S, R5W, containing **2.297** acres. **BRP1 - 8** includes the former HWT 3-A that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 8** was completed in Feb. 2016.

The Phase I bond release application is for a liability reduction of $ 4,033,105 from the ultimate disturbance liability of $ 32,028,705. The current bond for Coal Hollow Mine will remain at $12,750,000. All areas within the Reclaimed Coal Mine sites meet the requirements of the regulations for post mine land use of backfilling, regrading and drainage control standards. The approved post mining land use for the CHM is the same as the pre-mining land use, grazing and wildlife habitat.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North

Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News March 17th, 24th, & 31st and April 7th.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Keith R Stanworth
119 N 300 W
Cedar City, Utah 84720-2507

Dear Mr. Stanworth:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 9 -** A portion of the CHM within the E 1/4 of Sec. 30, T39S, R5W, containing **9.075** acres. **BRP1 - 9** includes the former HWT 2-B and HWT 3-B of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 9** was completed in June 2016.
>
> **BRP1 - 10 -** A portion of the CHM within the W half of the NE ¼ of Sec. 13, T39S, R6W, containing **12.213** acres. **BRP1 - 10** includes the former Pits 1, Pit 2, and Pit 3 of the North Private Lease that have achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 10** was completed in October 2016.

The Phase I bond release application is for a liability reduction of $ 2,985,984 from the current disturbance liability of $ 12,579,751. The current bond for Coal Hollow Mine will remain at $12,750,000. All of the above-described areas within the Reclaimed Coal Mine meet the requirements of the MRP and the Division's regulations for post mine land use and for backfilling, regrading and drainage control standards.

A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act

of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Nov. 10th, 17th, & 24th and Dec. 1st.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

William J. Mackelprang
P.O. Box 47
Orderville, Utah 84758

Dear Mr. Mackelprang:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

> **BRP1 - 9 -** A portion of the CHM within the E 1/4 of Sec. 30, T39S, R5W, containing **9.075** acres. **BRP1 - 9** includes the former HWT 2-B and HWT 3-B of the South Private Lease that has achieved final grade, subsoil placement and shaping for drainage control. Incremental reclamation of the **BRP1 - 9** was completed in June 2016.
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A copy of the Phase I bond release application with the complete legal description for each area may be examined at the office of Division of Oil, Gas and Mining, 1594 West North Temple, Suite 1210, Salt Lake City, Utah 84114-5801 and written comments, objections, or requests for an informal conference may be submitted to the Salt Lake City address. Said comments must be submitted thirty (30) days from the date of the last publication of this notice. This notice is being published to comply with the Surface Mining Control and Reclamation Act

of 1977, the Utah Coal Mining and Reclamation Act and State and Federal regulations promulgated pursuant to said Acts. Published in the Southern Utah News Nov. 10th, 17th, & 24th and Dec. 1st.

If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

G, Ferril Heaton
P.O. Box 47
Orderville, Utah 84758

Dear Mr. Heaton:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Dean R. Heaton
P.O. Box 435
Fredonia, AZ 86022

Dear Mr. Heaton:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

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Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

BLM-KFO
James Holland
669 South Highway 89A
Kanab, Utah 84741

Dear Mr. Holland:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Darlynn Sorensen
P.O. Box 47
Orderville, Utah 84758

Dear Mr. Sorensen:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

All areas for bond release have met the standards of the Utah Coal Program as to backfilling, regrading and drainage control for Phase I Bond Release (refer to R645-301-880). The locations of the Reclaimed Coal Mine areas in Kane County, Utah are as follows:

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If you have any questions, please call me at (435) 867-5331 or (435) 691-1551.

Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Kane County Planning Commission
180 West 300 North
Kanab, Utah 84741

Dear Mr. McBride:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

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B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Kane County Water Conservancy District
190 E. Center Street Suite 200
Kanab, Utah 84741

To whom it may concern:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

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Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

Alton Coal Development, LLC
463 North 100 West, Suite 1
Cedar City, Utah 84720
Phone (435) 867-5331 • Fax (435) 867-1192

November 2, 2016

Alton, Utah
Mayor Cox
156 West 100 North
Alton, Utah 84710

Dear Mayor Cox:

Notice is hereby given that Alton Coal Development, LLC (ACD) has filed an application with the Utah Department of Natural Resources, Division of Oil, Gas and Mining for Phase I Bond Release on approximately 21.288 acres of Coal Hollow Mine (CHM or Reclaimed Coal Mine).

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Sincerely,

B. Kirk Nicholes

B. Kirk Nicholes
Environmental Specialist

APPENDIX 2-2 (cont.)

BRP1-9 and BRP1-10
Soil Balance Accounting and Analytical

BRP1-9

	Topsoil	Subsoil	Substitute Subsoil
Acres	9.08	9.08	
Estimate of Salvageable Material (yd^3)	10,898	37,685	
Volume Actually Salvaged from Stockpile for Placement (yd^3)	9,761	48,806	
Proposed Placement Depth (feet)	0.67	3.33	
Volume Required for Reclamation (yd^3)	9,761	48,806	
Deficit (-) or Surplus (+) (yd^3)	0	0	

BRP1-10

	Topsoil	Subsoil	Substitute Subsoil
Acres	12.21	12.21	
Estimate of Salvageable Material (yd^3)	22,422	51,467	0
Volume Actually Salvaged from Stockpile for Placement (yd^3)	18,784	14,071	0
Proposed Placement Depth (feet)	1.08	2.92	Varies by Sample
Volume Required for Reclamation (yd^3)	21,346	57,469	47,212
Deficit (-) or Surplus (+) (yd^3)	-2,562	+3,814	

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Date: 9/15/2016

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Reclamation
Lab Order: S1608480

CASE NARRATIVE

Report ID: S1608480002
(Replaces S1608480001)

Samples NPL Reclaim Soil Pit #1, NPL Reclaim Soil Pit #2, NPL Reclaim Soil Pit #3, and Pond 3 Sludge were received on August 29, 2016.

Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600/2-78-054 "Field and Laboratory Methods Applicable to Overburden and Mining Soils", 1978
American Society of Agronomy, Number 9, Part 2, 1982
USDA Handbook 60 "Diagnosis and Improvement of Saline and Alkali Soils", 1969
Wyoming Department of Environmental Quality, Land Quality Division, Guideline No. 1, 1984
New Mexico Overburden and Soils Inventory and Handling Guideline, March 1987
State of Utah, Division of Oil, Gas, and Mining: Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining, April 1988
Montana Department of State Lands, Reclamation Division: Soil, Overburden, and Regraded Spoil Guidelines, December 1994
State of Nevada Modified Sobek Procedure
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1608480002
(Replaces S1608480001)

Project: Coal Hollow Reclamation

Date Received: 8/29/2016

Date Reported: 9/15/2016

Work Order: S1608480

Lab ID	Sample ID	Depths Feet	pH s.u.	Saturation %	Electrical Conductivity dS/m	Field Capacity %	Wilting Point %	Organic Matter LOI %	CaCO3 %
S1608480-001	NPL Reclaim Soil Pit #1	0-1	7.7	106	5.26	48.6	31.1	4.2	5.1
S1608480-002	NPL Reclaim Soil Pit #1	1-2	7.7	87.7	5.67	49.6	34.7	2.5	4.1
S1608480-003	NPL Reclaim Soil Pit #1	2-3	7.7	94.5	6.36	48.4	34.8	2.2	2.6
S1608480-004	NPL Reclaim Soil Pit #2	0-1	7.5	65.4	4.21	38.6	25.2	2.7	13.3
S1608480-005	NPL Reclaim Soil Pit #2	1-2	7.7	68.7	3.96	37.7	25.2	2.4	13.9
S1608480-006	NPL Reclaim Soil Pit #2	2-3	8.0	108	5.66	39.5	32.5	2.6	6.1
S1608480-007	NPL Reclaim Soil Pit #3	0-1	7.8	110	6.18	52.2	38.8	2.6	1.6
S1608480-008	NPL Reclaim Soil Pit #3	1-2	7.8	120	6.70	53.9	36.7	2.0	3.1
S1608480-009	NPL Reclaim Soil Pit #3	2-3	7.9	114	7.05	57.2	37.4	1.8	2.2
S1608480-010	Pond 3 Sludge	0-0	7.9	51.5	2.82	34.8	17.9	5.8	11.2

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1608480002
(Replaces S1608480001)
Date Reported: 9/15/2016
Work Order: S1608480

Project: Coal Hollow Reclamation
Date Received: 8/29/2016

Lab ID	Sample ID	Depths Feet	Calcium PE meq/L	Magnesium PE meq/L	Potassium PE meq/L	Sodium PE meq/L	SAR
S1608480-001	NPL Reclaim Soil Pit #1	0-1	16.9	12.0	0.73	50.7	13.4
S1608480-002	NPL Reclaim Soil Pit #1	1-2	19.7	17.0	0.86	49.5	11.5
S1608480-003	NPL Reclaim Soil Pit #1	2-3	17.3	19.8	1.02	61.9	14.4
S1608480-004	NPL Reclaim Soil Pit #2	0-1	22.4	13.0	0.54	26.4	6.28
S1608480-005	NPL Reclaim Soil Pit #2	1-2	22.2	12.5	0.51	23.7	5.69
S1608480-006	NPL Reclaim Soil Pit #2	2-3	14.6	12.8	0.78	56.0	15.1
S1608480-007	NPL Reclaim Soil Pit #3	0-1	15.3	15.0	0.92	61.2	15.7
S1608480-008	NPL Reclaim Soil Pit #3	1-2	17.0	14.5	0.95	68.9	17.4
S1608480-009	NPL Reclaim Soil Pit #3	2-3	20.0	16.1	1.11	84.1	19.8
S1608480-010	Pond 3 Sludge	0-0	8.06	5.80	0.53	21.4	8.13

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1608480002
(Replaces S1608480001)

Project: Coal Hollow Reclamation

Date Received: 8/29/2016

Date Reported: 9/15/2016

Work Order: S1608480

Lab ID	Sample ID	Depths Feet	Sand %	Silt %	Clay %	Texture	Very Fine Sand %	Boron ppm	Selenium ppm	Total Carbon %	TOC %
S1608480-001	NPL Reclaim Soil Pit #1	0-1	17.0	33.0	50.0	Clay	10.5	1.62	0.06	2.3	1.6
S1608480-002	NPL Reclaim Soil Pit #1	1-2	13.0	35.0	52.0	Clay	8.0	1.29	0.06	1.0	0.5
S1608480-003	NPL Reclaim Soil Pit #1	2-3	15.0	35.0	50.0	Clay	9.7	1.17	0.07	0.7	0.4
S1608480-004	NPL Reclaim Soil Pit #2	0-1	11.0	37.0	52.0	Clay	6.2	1.45	0.04	2.6	1.0
S1608480-005	NPL Reclaim Soil Pit #2	1-2	13.0	35.0	52.0	Clay	8.6	1.53	0.05	2.3	0.7
S1608480-006	NPL Reclaim Soil Pit #2	2-3	15.0	33.0	52.0	Clay	9.5	1.09	0.03	1.6	0.9
S1608480-007	NPL Reclaim Soil Pit #3	0-1	13.0	31.0	56.0	Silty Clay	8.5	0.84	0.09	0.9	0.7
S1608480-008	NPL Reclaim Soil Pit #3	1-2	13.0	33.0	54.0	Clay	8.2	0.88	0.05	0.7	0.3
S1608480-009	NPL Reclaim Soil Pit #3	2-3	13.0	35.0	52.0	Clay	8.0	0.92	0.07	0.5	0.2
S1608480-010	Pond 3 Sludge	0-0	37.0	31.0	32.0	Clay Loam	13.9	2.49	<0.02	5.1	3.7

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC
463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1608480002
(Replaces S1608480001)
Date Reported: 9/15/2016
Work Order: S1608480

Project: Coal Hollow Reclamation
Date Received: 8/29/2016

Lab ID	Sample ID	Depths Feet	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t	Sulfate Sulfur %	Pyritic Sulfur %	Organic Sulfur %	PyriticS AB t/1000t	PyriticS ABP t/1000t
S1608480-001	NPL Reclaim Soil Pit #1	0-1	0.55	17.2	51.3	34.1					
S1608480-002	NPL Reclaim Soil Pit #1	1-2	0.62	19.4	41.1	21.7					
S1608480-003	NPL Reclaim Soil Pit #1	2-3	0.86	27.0	26.0	-1.00	0.84	0.01	0.01	0.40	25.6
S1608480-004	NPL Reclaim Soil Pit #2	0-1	0.40	12.4	133	120					
S1608480-005	NPL Reclaim Soil Pit #2	1-2	0.29	8.89	139	130					
S1608480-006	NPL Reclaim Soil Pit #2	2-3	0.59	18.4	60.7	42.3					
S1608480-007	NPL Reclaim Soil Pit #3	0-1	0.51	15.8	15.8	0.04					
S1608480-008	NPL Reclaim Soil Pit #3	1-2	0.75	23.4	30.6	7.28					
S1608480-009	NPL Reclaim Soil Pit #3	2-3	0.41	12.8	21.6	8.78					
S1608480-010	Pond 3 Sludge	0-0	0.24	7.37	112	104					

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs, Inc
1673 Terra Ave, Sheridan, Wyoming, 82801
(307) 672-8945

Soil Analysis Report
Alton Coal Development
463 North 100 West, Suite 100
Cedar City, UT 84721

Project ID: Coal Hollow Reclamation
Date Received: 8/29/2016

Report ID: S1608480001
Date Reported: 9/12/2016
Work Order: S1608480

Lab ID	Sample ID	Organic Matter %	Sand %	Silt %	Clay %	Very Fine Sand %	Texture	K-factor (t.ac.h/100acft.tf.in)	Structure s	Permeability p	M	Description
S1608480-001	NPL #1 (0-1)	4.2	17.0	33.0	50.0	10.5	Clay	0.18	2	6	2175.0	
S1608480-002	NPL #1 (1-2)	2.5	13.0	35.0	52.0	8.0	Clay	0.19	2	6	2064.0	
S1608480-003	NPL #1 (2-3)	2.2	15.0	35.0	50.0	9.7	Clay	0.21	2	6	2235.0	
S1608480-004	NPL #2 (0-1)	2.7	11.0	37.0	52.0	6.2	Clay	0.19	2	6	2073.6	
S1608480-005	NPL #2 (1-2)	2.4	13.0	35.0	52.0	8.6	Clay	0.20	2	6	2092.8	
S1608480-006	NPL #2 (2-3)	2.5	15.0	33.0	52.0	9.5	Clay	0.19	2	6	2040.0	
S1608480-007	NPL #3 (0-1)	2.6	13.0	31.0	56.0	8.5	Silty Clay	0.17	2	6	1738.0	
S1608480-008	NPL #3 (1-2)	1.9	13.0	33.0	54.0	8.2	Clay	0.19	2	6	1895.2	
S1608480-009	NPL #3 (2-3)	1.8	13.0	35.0	52.0	8.0	Clay	0.20	2	6	2064.0	
S1608480-010	Pond 3 Sludge	5.8	37.0	31.0	32.0	13.9	Clay Loam	0.15	2	4	3053.2	

These Results apply only to the samples tested.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

All shaded fields must be completed.
This is a legal document: any misrepresentation may be construed as fraud.

Page 1 of 1
168150

Client Name	Project Identification	Sampler (Signature/Attestation of Authenticity)	Telephone #
Alton Coal Development, LLC	Coal Hollow Reclamation	B. Kirk Nicholes	435-691-1551

Report Address: 463 N 100 W Suite 1, Cedar City, Utah 84721

Contact Name: Kirk Nicholes
Email: knicholes@altoncoal.com
Phone: 435691-1551

Invoice Address: Same

Purchase Order #:
Quote #:

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	Saturation %	pH	EC (mmhos/cm @25°C)	SAR	% CaCO3	Texture	Total Organic Carbon	Available Water Capacity	K-factor	Soluble Na, K, Mg, Ca	REMARKS
1	S1608480-001	8/24/16		NPL Reclaim Soil Pit #1 0'-1'	SL	1	X	X	X	X	X	X	X	X	X	X	
2	-002			" " " " #1 1'-2'		1	X	X	X	X	X	X	X	X	X	X	
3	-003			" " " " #1 2'-3'		1	X	X	X	X	X	X	X	X	X	X	
4	-004			" " " " #2 0'-1'		1	X	X	X	X	X	X	X	X	X	X	
5	-005			" " " " #2 1'-2'		1	X	X	X	X	X	X	X	X	X	X	
6	-006			" " " " #2 2'-3'		1	X	X	X	X	X	X	X	X	X	X	
7	-007			" " " " #3 0'-1'		1	X	X	X	X	X	X	X	X	X	X	
8	-008			" " " " #3 1'-2'		1	X	X	X	X	X	X	X	X	X	X	
9	-009			" " " " #3 2'-3'		1	X	X	X	X	X	X	X	X	X	X	
10	-010			Pond 3 Sludge		1	X	X	X	X	X	X	X	X	X	X	
11																	
12																	
13																	
14																	

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	B. Kirk Nicholes / B. Kirk Nicholes	8/25/16	8:00am	Karen A Secor	8/29/16	0850

SHIPPING INFO
- [x] UPS
- [ ] Fed Express
- [ ] US Mail
- [ ] Hand Carried
- [ ] Other _____

MATRIX CODES

Water	WT
Soil	SL
Solid	SD
Filter	FT
Other	OT

TURNAROUND TIMES
Check desired service
- [x] Standard turnaround
- [ ] RUSH - 5 Working Days
- [ ] URGENT - < 2 Working Days

Rush & Urgent Surcharges will be applied

COMPLIANCE INFORMATION
Compliance Monitoring? (Y) N
Program (SDWA, NPDES,...)
PWSID / Permit #
Chlorinated? Y / N
Sample Disposal: Lab Client

ADDITIONAL REMARKS

Inter-Mountain Labs
Your Environmental Monitoring Partner
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Date: 9/22/2016

CLIENT: Alton Coal Development, LLC
Project: Coal Hollow Reclamation
Lab Order: S1609242

CASE NARRATIVE

Report ID: S1609242001

Samples NPL Reclaim Soil Pit #3.5E, and NPL Reclaim Soil Pit #3.5N were received on September 15, 2016.

Samples were analyzed using the methods outlined in the following references:

U.S.E.P.A. 600/2-78-054 "Field and Laboratory Methods Applicable to Overburden and Mining Soils", 1978
American Society of Agronomy, Number 9, Part 2, 1982
USDA Handbook 60 "Diagnosis and Improvement of Saline and Alkali Soils", 1969
Wyoming Department of Environmental Quality, Land Quality Division, Guideline No. 1, 1984
New Mexico Overburden and Soils Inventory and Handling Guideline, March 1987
State of Utah, Division of Oil, Gas, and Mining: Guidelines for Management of Topsoil and Overburden for Underground and Surface Coal Mining, April 1988
Montana Department of State Lands, Reclamation Division: Soil, Overburden, and Regraded Spoil Guidelines, December 1994
State of Nevada Modified Sobek Procedure
Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All Quality Control parameters met the acceptance criteria defined by EPA and Inter-Mountain Laboratories except as indicated in this case narrative.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1609242001

Project: Coal Hollow Reclamation

Date Received: 9/15/2016

Date Reported: 9/22/2016

Work Order: S1609242

Lab ID	Sample ID	Depths Feet	pH s.u.	Saturation %	Electrical Conductivity dS/m	Field Capacity %	Wilting Point %	Organic Matter LOI %	CaCO3 %
S1609242-001	NPL Reclaim Soil Pit #3.5N	0-1	7.7	89.9	3.67	33.1	27.2	1.9	12.9
S1609242-002	NPL Reclaim Soil Pit #3.5N	1-2	7.6	91.7	4.65	38.1	30.1	3.0	7.9
S1609242-003	NPL Reclaim Soil Pit #3.5N	2-3	7.7	85.2	4.20	40.4	29.3	2.4	10.0
S1609242-004	NPL Reclaim Soil Pit #3.5E	0-1	7.9	124	6.30	45.0	32.8	1.9	5.4
S1609242-005	NPL Reclaim Soil Pit #3.5E	1-2	7.8	126	5.65	42.4	30.4	2.5	5.7
S1609242-006	NPL Reclaim Soil Pit #3.5E	2-3	8.2	157	6.30	47.2	37.2	1.7	4.9

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC
463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1609242001

Project: Coal Hollow Reclamation
Date Received: 9/15/2016

Date Reported: 9/22/2016
Work Order: S1609242

Lab ID	Sample ID	Depths Feet	Calcium PE meq/L	Magnesium PE meq/L	Potassium PE meq/L	Sodium PE meq/L	SAR
S1609242-001	NPL Reclaim Soil Pit #3.5N	0-1	23.5	12.6	0.45	20.9	4.93
S1609242-002	NPL Reclaim Soil Pit #3.5N	1-2	22.8	16.3	0.65	35.9	8.11
S1609242-003	NPL Reclaim Soil Pit #3.5N	2-3	22.9	13.9	0.55	28.8	6.72
S1609242-004	NPL Reclaim Soil Pit #3.5E	0-1	19.4	11.4	0.84	68.5	17.4
S1609242-005	NPL Reclaim Soil Pit #3.5E	1-2	20.5	12.0	0.81	56.8	14.1
S1609242-006	NPL Reclaim Soil Pit #3.5E	2-3	16.8	9.05	0.80	70.0	19.5

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC

463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1609242001

Project: Coal Hollow Reclamation

Date Received: 9/15/2016

Date Reported: 9/22/2016

Work Order: S1609242

Lab ID	Sample ID	Depths Feet	Sand %	Silt %	Clay %	Texture	Very Fine Sand %	Boron ppm	Selenium ppm	Total Carbon %	TOC %
S1609242-001	NPL Reclaim Soil Pit #3.5N	0-1	12.0	38.0	50.0	Clay	7.9	1.33	0.04	2.2	0.7
S1609242-002	NPL Reclaim Soil Pit #3.5N	1-2	12.0	37.0	51.0	Clay	6.4	1.36	0.03	2.3	1.3
S1609242-003	NPL Reclaim Soil Pit #3.5N	2-3	14.0	36.0	50.0	Clay	9.5	1.02	0.04	2.1	0.9
S1609242-004	NPL Reclaim Soil Pit #3.5E	0-1	13.0	41.0	46.0	Silty Clay	7.6	1.04	0.03	1.6	0.9
S1609242-005	NPL Reclaim Soil Pit #3.5E	1-2	13.0	40.0	47.0	Silty Clay	7.3	1.23	0.03	1.9	1.3
S1609242-006	NPL Reclaim Soil Pit #3.5E	2-3	21.0	34.0	45.0	Clay	15.6	1.12	0.03	1.3	0.7

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate

Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential

Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor

Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs
1673 Terra Avenue, Sheridan, Wyoming 82801 ph: (307) 672-8945

Your Environmental Monitoring Partner

Soil Analysis Report

Alton Coal Development, LLC
463 North 100 West
Suite 1
Cedar City, UT 84721

Report ID: S1609242001

Project: Coal Hollow Reclamation
Date Received: 9/15/2016

Date Reported: 9/22/2016
Work Order: S1609242

Lab ID	Sample ID	Depths Feet	Total Sulfur %	T.S. AB t/1000t	Neutral. Potential t/1000t	T.S. ABP t/1000t
S1609242-001	NPL Reclaim Soil Pit #3.5N	0-1	0.12	3.82	129	125
S1609242-002	NPL Reclaim Soil Pit #3.5N	1-2	0.37	11.4	79.0	67.6
S1609242-003	NPL Reclaim Soil Pit #3.5N	2-3	0.22	6.93	100	93.2
S1609242-004	NPL Reclaim Soil Pit #3.5E	0-1	0.57	17.7	54.3	36.7
S1609242-005	NPL Reclaim Soil Pit #3.5E	1-2	0.45	14.0	57.1	43.1
S1609242-006	NPL Reclaim Soil Pit #3.5E	2-3	0.51	15.8	48.8	33.0

These results apply only to the samples tested.

Abbreviations for extractants: PE= Saturated Paste Extract, H20Sol= water soluble,AB-DTPA= Ammonium Bicarbonate-DTPA, AAO= Acid Ammonium Oxalate
Abbreviations used in acid base accounting: T.S.= Total Sulfur, AB= Acid Base, ABP= Acid Base Potential, PyrS= Pyritic Sulfur, Pyr+Org= Pyritic Sulfur + Organic Sulfur, Neutral. Pot.= Neutralization Potential
Miscellaneous Abbreviations: SAR= Sodium Adsorption Ratio, CEC= Cation Exchange Capacity, ESP= Exchangeable Sodium Percentage

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs, Inc
1673 Terra Ave, Sheridan, Wyoming, 82801
(307) 672-8945

Soil Analysis Report
Alton Coal Development
463 North 100 West, Suite 100
Cedar City, UT 84721

Project ID: Coal Hollow Reclamation
Date Received: 9/15/2016

Report ID: S16092420001
Date Reported: 9/22/2016
Work Order: S1609242

Lab ID	Sample ID	Organic Matter %	Sand %	Silt %	Clay %	Very Fine Sand %	Texture	K-factor (t.ac.h/100acft.tf.in)	Structure s	Permeability p	M	Description
S1609242-001	NPL #3.5N (0-1)	1.9	12.0	38.0	50.0	7.9	Clay	0.25	3	6	2295.0	
S1609242-002	NPL #3.5N (1-2)	3.0	12.0	37.0	51.0	6.4	Clay	0.19	2	6	2126.6	
S1609242-003	NPL #3.5N (2-3)	2.4	14.0	36.0	50.0	9.5	Clay	0.21	2	6	2275.0	
S1609242-004	NPL #3.5E (0-1)	1.9	13.0	41.0	46.0	7.6	Silty Clay	0.21	1	6	2624.4	
S1609242-005	NPL #3.5E (1-2)	2.5	13.0	40.0	47.0	7.3	Silty Clay	0.22	2	6	2506.9	
S1609242-006	NPL #3.5E (2-3)	1.7	21.0	34.0	45.0	15.6	Clay	0.25	2	6	2728.0	

These Results apply only to the samples tested.

Reviewed by: Karen A Secor
Karen Secor, Soil Lab Supervisor

Inter-Mountain Labs, Inc.
Sheridan, WY and Gillette, WY

- CHAIN OF CUSTODY RECORD -

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This is a legal document; any misrepresentation may be construed as fraud.

WEB Alton 091516

Client Name	Project Identification	Sampler (Signature/Attestation of Authenticity)	Telephone #
Alton Coal Development, LLC	Coal Hollow Mine	B. Kirk Nicholes	435-691-1551

Report Address
463 N 100 W, Suite 1
Cedar City, Utah 84721

Contact Name and Email
Voice
FAX

Invoice Address
Same

Purchase Order #

Quote #

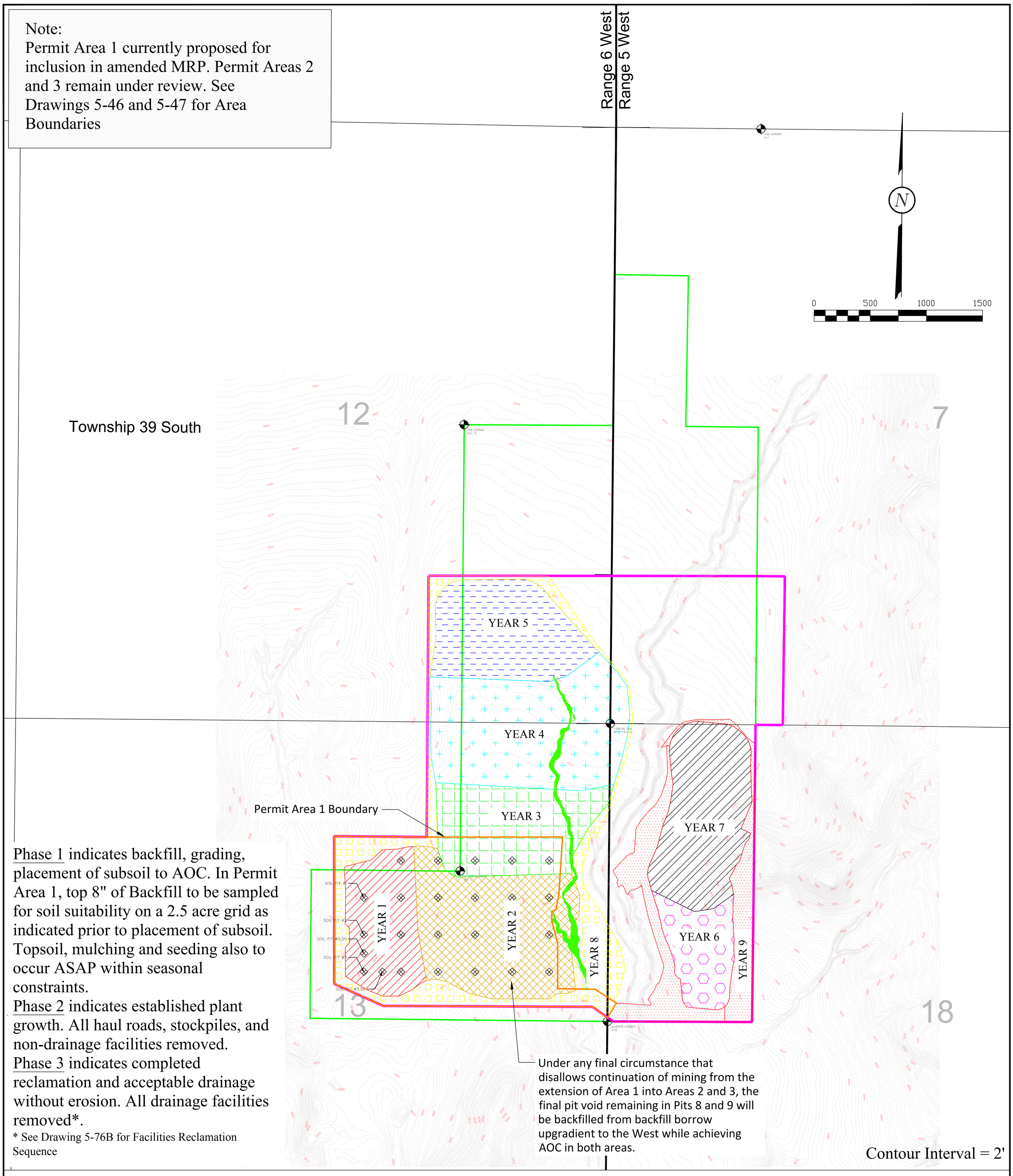
ANALYSES / PARAMETERS

ITEM	LAB ID (Lab Use Only)	DATE SAMPLED	TIME SAMPLED	SAMPLE IDENTIFICATION	Matrix	# of Containers	% Saturation	pH	EC	SAR	% $CaCO_3$	Texture	Total Organic Carbon	Available Water	K-Factor	Soluble Na, K, Mg	Acid Base Potential	Soluble Selenium	Available Boron	REMARKS
1	51609242	6-13-16	14:30	NPL Reclaim Soil Pit #3.5N 0'-1'	SL	1														
2				1'-2'		1														
3				2'-3'		1														
4				NPL Reclaim Soil Pit #3.5E 0'-1'		1														
5				1'-2'		1														
6				2'-3'		1														
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

LAB COMMENTS	Relinquished By (Signature/Printed)	DATE	TIME	Received By (Signature/Printed)	DATE	TIME
	B. Kirk Nicholes / B. Kirk Nicholes	9/14/16	7:42am	Karen A Secor	9/15/16	1025

SHIPPING INFO	MATRIX CODES		TURN AROUND TIMES	COMPLIANCE INFORMATION		ADDITIONAL REMARKS
☐ UPS	Water	WT	**Check desired service**	Compliance Monitoring ?	Y / N	
☒ Fed Express	Soil	SL	☐ Standard turnaround	Program (SDWA, NPDES, ...)		
☐ US Mail	Solid	SD	☐ **RUSH** - 5 Working Days	PWSID / Permit #		
☐ Hand Carried	Trip Blank	TB	☒ **URGENT** - < 2 Working Days	Chlorinated?	Y / N	
☐ Other_____	Other	OT	***Rush & Urgent Surcharges will be applied***	Sample Disposal: Lab ____	Client ____	

Note:
Permit Area 1 currently proposed for inclusion in amended MRP. Permit Areas 2 and 3 remain under review. See Drawings 5-46 and 5-47 for Area Boundaries



Phase 1 indicates backfill, grading, placement of subsoil to AOC. In Permit Area 1, top 8" of Backfill to be sampled for soil suitability on a 2.5 acre grid as indicated prior to placement of subsoil. Topsoil, mulching and seeding also to occur ASAP within seasonal constraints.
Phase 2 indicates established plant growth. All haul roads, stockpiles, and non-drainage facilities removed.
Phase 3 indicates completed reclamation and acceptable drainage without erosion. All drainage facilities removed*.

* See Drawing 5-76B for Facilities Reclamation Sequence

Phase 1 Reclamation:

- Year 1 Reclaim = 17.9 Acres
- Year 2 Reclaim = 34.7 Acres
- Year 3 Reclaim = 24.1 Acres
- Year 4 Reclaim = 39.3 Acres
- Year 5 Reclaim = 24.3 Acres
- Year 6 Reclaim = 11.6 Acres
- Year 7 Reclaim = 26.4 Acres
- Year 8 Reclaim = 00.0 Acres
- Year 9 Reclaim = 00.0 Acres

Total Ph. 1 Reclamation = 178.4 Acres

Phase 2/Surface Reclamation:

- Year 1 Reclaim = 00.0 Acres
- Year 2 Reclaim = 00.0 Acres
- Year 3 Reclaim = 00.0 Acres
- Year 4 Reclaim = 00.0 Acres
- Year 5 Reclaim = 00.0 Acres
- Year 6 Reclaim = 00.0 Acres
- Year 7 Reclaim = 00.0 Acres
- Year 8 Reclaim = 167.6 Acres - (Includes yrs. 1-5 Phase 2)
- Year 9 Reclaim = 57.2 Acres - (Includes yrs. 6-7 Phase 2)

Total Ph. 2 Reclamation = 224.9 Acres

Phase 3 Reclamation to be completed and released within the 5-10 year timeframe from Phase 1.

LEGEND:
- PERMIT BOUNDARY
- PRIVATE COAL OWNERSHIP
- SECTION LINE
- FOUND SECTION CORNER
- FOUND PROPERTY CORNER
- BACKFILL SAMPLE PIT

DRAWN BY:	CHECKED BY:
A. CHRISTENSEN	DWG
DRAWING: 5-76A	DATE: 4/16/15
	SCALE: 1" = 400'
JOB NUMBER: 0001	SHEET

REVISIONS

DATE:	BY:
12/1/15	AC
12/15/15	AC
1/8/16	AC
8/15/16	AC
9/7/16	AC
10/3/16	AC
12/14/16	AC

EARTHWORKS RECLAMATION SEQUENCE

NORTH COAL HOLLOW PROJECT
ALTON, UTAH

DRAWING: 5-76A

UTAH REGISTERED PROFESSIONAL ENGINEER #154168 DAN W. GUY

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