	Applicant: NORTH CENTRAL RESOURCES, LLC **Reference ID: North Central Resources No. 1 Prep Plant & Freshwater Impoundment O200113 B12-608-1800 (12/06/2012)** **Status: ERIS - Closed - Issued**	**Type: Surface Mine Application #1** **Permit ID: O200113** **Printed: Oct. 27, 2020 9:56 AM**

New Reporting Standards

The West Virginia Department of Environmental Protection (WVDEP) Division of Mining and Reclamation application fees change June 16, 2011.

Effective June 16, 2011:

- Notice of Intent to Prospect (PRO) - $2,000.00, regardless of tonnage.
- Surface Mine Application (SMA) - $3,500.00.
- Dam Control Application (DAM) - $300 application fee. (Fee applies to each dam certificate to be issued for new, modification, abandonment, or transfer categories.)
- Permit Revision (REV) - $2,000.00, if significant.
- Incidental Boundary Revision (IBR) - $2,000.00, if significant.
- Permit Renewal (RNW) - $3,000.00, if Quarry $500.00.
- Permit Amendment (AMEND) - $2,550.00.
- Permit Transfer (19A) - $1,500.00 per permit, Quarry $500.00 per permit.
- Operator Assignment (19) - $1,500.00 per permit.
- Inactive Status (INA) - $2,000.00, Quarry is free.
- Coal Removal for Construction Purposes (4C) - $3,500.00, paper application.

The West Virginia Department of Environmental Protection (WVDEP) Division of Mining and Reclamation has implemented the following new reporting standards.

Effective January 1, 2009:

- The new eMap file should conform to the WVDEP eMap standards and be attached in the "Maps and eMap Data Section" toward the end of each application. See documentation in that section.
- The "Maps and eMap Data Section" should generally contain, where appropriate, the proposal, drainage, and subsidence control maps along with the eMap. Please attach other drawings and maps in the specific section where they are discussed.
- DO NOT refer to any information existing only in another application, please provide the information in this application.

Part I General: Administrative Information

SMA Number:	O200113	MSHA Number:	46-09447
DEP Region:	Philippi		
Related NPDES Information --			
Office(HPU/DWWM):	HPU	NPDES Number:	WV1027026
Application Type:	NPD	Sequence Number:	1
Filing Fee:	$3,500.00	Payment Made:	☑ Yes
Facility Name (max 50 characters):	North Central Resources No. 1 Prep Plant & FW Impn		
Latitude:	39 ° 06 ' 06 "		
Longitude:	80 ° 08 ' 57 "	Elevation:	1500
Geospatial Method:	Digital/Manual Interpolation from a map		
Datum:	NAD27		
Nearest Post Office:	Volga		
Nearest Public Road:	119/14 (aka Route)		

USGS/SCS Hydrologic Region(s) Receiving Effluent.

Major Watershed:	Tygart Valley River	Code:	05020001
Minor Watershed:	Lower Buckannon River (130)	Code:	130
WVDNR Receiving Stream:	MTB-3-A		
Receiving Stream Name:	WASH RN		
Unnamed Tributary:	1	Local Name:	
Minor Tributary:	BUCKHANNON RV		
Major Tributary:	MONONGAHELA RV		
Detailed Stream Lineage:	Unnamed tributary of/and Wash Run of Big Run of the Buckhannon River of the Tygart Valley River and unnamed tributary of/and Indian Fork of Elk Creek of West Fork River		
Coal Seam(s) to be Mined: *	Kittanning - Lwr---Allegheny		

* **To select muliple, hold down Ctrl key while making selections.**

USGS Quadrangle Name(s): Select each quadrangle by first selecting each county it encompasses.

County	Quadrangle
Barbour	CENTURY

Provide acres by county and magisterial district.

Surface Acres	County	District
215	Barbour	Union

County with the Most Acres Declared

Surface Acres	County	Total Acres Overall
215	Barbour	215.00

A-1: Applicant Mailing Address

Mailing Address:	200 CHAPEL BROOK DR		
Street Address:			
City:	BRIDGEPORT	Country:	United States of America
State:	West Virginia	Zip: 26330	Phone: 304-842-8000
FEIN:	WVDEP may request	SS No.	WVDEP may request

(NOTE: The applicant assumes responsibility for mail delivered to the business mailing address and will notify DEP of all address changes through final release of permit.)

To request an address change, indicate address type: ◉ No Change ○ Default ○ Permit
And enter new address below:

Mailing Address:			
Street Address:			
City:		Country:	United States of America
State:	West Virginia	Zip:	Phone:

A-2: Identify Resident Agent

A-2. Identify resident agent for service of process in West Virginia for the Applicant:

If applicant is WV corporation, and has a WV address, check **N/A** ☑

Name:			
Mailing Address:			
Street Address:			
City:		Country:	United States of America
State:	West Virginia	Zip:	Phone:
FEIN:	WVDEP may request	Social Security Number:	WVDEP may request

A-3: Identify AML Responsibility

A-3. Identify entity who will pay federal abandoned mine land reclamation fees:

If applicant will pay fees, check **N/A** ☑

Name:

Mailing Address:

Street Address:

City: Country: United States of America

State: West Virginia Zip: Phone:

FEIN: WVDEP may request Social Security No: WVDEP may request

A-4: Central Ownership and Control

A-4. Has the Applicant previously submitted to DEP sufficient documentation to establish the legal structure of the Applicant and have an approved *Centralized Ownership and Control File?*

○ Yes ◉ No

If Yes, answer only question A-10 in Section A and include a copy of the Centralized Ownership and Control File (COCF) approval letter from WVDEP and the most recent certification (signature page) submitted to the COCF and identify as Attachment A-4. (Note: Once you are advised to begin advertisement, it is the applicant's responsibility to ensure that a copy of the COCF is placed on public review at the appropriate regional office and county clerk's office(s).)

A-5: Legal Structure of Applicant

A. Indicate legal structure of Applicant:

○ Sole Proprietorship

○ Partnership

○ *Corporation:

State of Incorporation:

Date of Incorporation:

(If state of Incorporation is not WV, date of Certificate of Authority to conduct business in WV)

Date of Certificate of Authority:

◉ *Limited Liability Company:

State of Organization: West Virginia

Date: 10/10/2002

○ *Association:

○ *Other: Specify:

B. Complete the following appropriate items and attach sufficient notarized documents. Check below the type of documents included:

☑ Certified copy of "Certificate of Incorporation" , "Certificate of Authority", "Articles of Organization" or other appropriate document from the Office of Secretary of State.

☐ Notarized copy of "Partnership Agreement"

☐ Certified copy of "Certificate of Limited Partnership"

☐ Certified copy of "Certificate of Registration of True Name" with county of registration (*for use of assumed name or "d/b/a"*)

A-8: Owner / Stockholder

If Applicant's legal structure is other than a sole proprietorship or partnership, provide all information requested below for: Owners or Stockholders owning ten percent (10%) or more of any class of voting stock; All officers such as President, Vice President, Secretary, Treasurer, Directors; any other person performing a function similar to a Director; and for limited liability companies, all Members and Managers. If any person listed below is a business entity and not an individual, also complete item A-11 for that entity.

If N/A, check here: ☐

Name: Kevin J. Bealko
Mailing Address: 200 Chapel Brook Drive
Street Address:
City: Bridgeport Country: United States of America
State: West Virginia Zip: 26330 Phone: 304-842-8000
FEIN: WVDEP may request Social Security No: WVDEP may request
Ownership/Control relationship to Applicant: NA
Location in Organizational Structure: NA
Official Title/Position: President Date Title/Position Assumed: 05/15/2008
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Reggie Wood
Mailing Address: 200 Main Street
Street Address:
City: Beckley Country: United States of America
State: West Virginia Zip: 25801 Phone: 304-929-3913
FEIN: WVDEP may request Social Security No: WVDEP may request
Ownership/Control relationship to Applicant: NA
Location in Organizational Structure: NA
Official Title/Position: Secretary/Treasurer Date Title/Position Assumed: 05/15/2008
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: American Metals & Coal International, Inc.
Mailing Address: 475 Steamboat Road, Floor 2
Street Address:
City: Greenwich Country: United States of America
State: Connecticut Zip: 06830 Phone: 203-625-9200
FEIN: WVDEP may request Social Security No: WVDEP may request
Ownership/Control relationship to Applicant: Member
Location in Organizational Structure: -
Official Title/Position: - Date Title/Position Assumed: NA
Beginning Date of Ownership: 02/27/2008 Percent of Ownership: 56.5

Name: POSCO-NCR Coal Ltd.
Mailing Address: 650 W. Georgia Street, Suite 2350
Street Address:
City: Vancouver, British Columbia V6B 4N9 Country: Canada
State: [None or Not Applicable] Zip: NA Phone: 604-688-9175
FEIN: WVDEP may request Social Security No: WVDEP may request
Ownership/Control relationship to Applicant: Member
Location in Organizational Structure: -
Official Title/Position: - Date Title/Position Assumed: NA
Beginning Date of Ownership: 07/20/2010 Percent of Ownership: 29.4

Name:	JAZ Ventures, L. P.
Mailing Address:	809 Weldon Street
Street Address:	
City:	Latrobe
Country:	United States of America
State:	Pennsylvania
Zip:	15650
Phone:	814-446-6700
FEIN:	WVDEP may request
Social Security No:	WVDEP may request
Ownership/Control relationship to Applicant:	Member
Location in Organizational Structure:	-
Official Title/Position:	-
Date Title/Position Assumed:	NA
Beginning Date of Ownership:	05/09/2008
Percent of Ownership:	14.1

A-9: Other Persons of Authority for Applicant

A-9. Identify below all persons who have the authority or ability to commit the financial, real property assets or working resources of the Applicant or who may have the authority to determine the manner in which the proposed surface mining operation is conducted who are not otherwise identified as owners, officers, or directors of the Applicant. If any person listed below is a business entity and not an individual, also complete item A-11 for that entity.

If **NONE,** check here: ☑

Name:	
Mailing Address:	
Street Address:	
City:	
Country:	United States of America
State:	West Virginia
Zip:	
Phone:	
FEIN:	WVDEP may request
Social Security No:	WVDEP may request
Ownership/Control relationship to Applicant:	
Location in Organizational Structure:	
Official Title/Position:	
Date Title/Position Assumed:	
Beginning Date of Ownership:	
Percent of Ownership:	

A-10: Owner/Controller of Coal Being Mined

A-10. Does the Applicant own all of the coal to be mined? ○ Yes ○ No ◉ N/A

If **NO**, identify below all legal sources by which the Applicant has the authority to mine all of the coal and complete A. and B. below ***NOTE: DEP may require copies of these documents.***

☐ LEASE ☐ SUBLEASE ☐ AGREEMENT ☐ OTHER CONTRACT

A. Identify every person, other than the Applicant, owning or controlling the coal to be mined **AND having the right to receive it after mining,**
If any person listed below is a business entity and not an individual, also complete item A-11 for that entity.

Name:
Mailing Address:
Street Address:
City: Country: United States of America
State: West Virginia Zip: Phone:
FEIN: WVDEP may request Social Security No: WVDEP may request
Ownership/Control relationship to Applicant:
Beginning Date of Relationship:

B. Identify every person, other than the Applicant, owning or controlling the coal to be mined **AND having the authority to determine the manner in which the proposed surface mining operation is conducted.**
If any person listed below is a business entity and not an individual, also complete item A-11 for that entity.
If none, mark N/A. ☐ N/A

Name:
Mailing Address:
Street Address:
City: Country: United States of America
State: West Virginia Zip: Phone:
FEIN: WVDEP may request Social Security No: WVDEP may request
Ownership/Control relationship to Applicant:
Beginning Date of Relationship:

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** American Metals & Coal International, Inc.

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name: Hans J. Mende
Mailing Address: 475 Steamboat Road, Floor 2
Street Address:
City: Greenwich Country: United States of America
State: Connecticut Zip: 06830 Phone: 203-625-9200
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: President
Official Title/Position: Director/Preisdent Date Title/Position Assumed: 03/05/1986
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Fritz R. Kundrun
Mailing Address: 475 Steamboat Road, Floor 2
Street Address:
City: Greenwich Country: United States of America
State: Connecticut Zip: 06830 Phone: 203-625-9200
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: Director
Official Title/Position: Director Date Title/Position Assumed: 03/05/1986
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Michael J. Walker
Mailing Address: 975 Georges Station Road, Ste. 200
Street Address:
City: Greensburg Country: United States of America
State: Pennsylvania Zip: 15601 Phone: 724-532-4500
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: Exec Vice Pres-12/29/02 & Treasurer-1/1/03
Official Title/Position: Exec. VP/Treasurer Date Title/Position Assumed: 12/29/2002
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Lisa D. Kriebel
Mailing Address: 975 Georges Station Road, Ste. 200
Street Address:
City: Greensburg Country: United States of America
State: Pennsylvania Zip: 15601 Phone: 724-532-4500
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: Secretary
Official Title/Position: Secretary Date Title/Position Assumed: 02/16/2007
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: K-M Investment Corporation
Mailing Address: 475 Steamboat Road, Floor 2
Street Address:
City: Greenwich Country: United States of America
State: Connecticut Zip: 06830 Phone: 203-625-9200
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Owner
Location in Organizational Structure: -
Official Title/Position: Owner Date Title/Position Assumed: 5/22/1987
Beginning Date of Ownership: 5/22/1987 Percent of Ownership: 100

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** K-M Investment Corporation

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name: Hans J. Mende
Mailing Address: 475 Steamboat Road, Floor 2
Street Address:
City: Greenwich Country: United States of America
State: Connecticut Zip: 06830 Phone: 203-625-9200
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: President & Director
Official Title/Position: President/Dir Date Title/Position Assumed: 5/22/1987
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Fritz R. Kundrun
Mailing Address: 475 Steamboat Road, Floor 2
Street Address:
City: Greenwich Country: United States of America
State: Connecticut Zip: 06830 Phone: 203-625-9200
FEIN: WVDEP may Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Chairman of the Board, CEO and Director
Location in Organizational Structure: -
Official Title/Position: CoB/CEO/Director Date Title/Position Assumed: 5/22/1987
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Michael J. Walker
Mailing Address: 975 Georges Station Road, Suite 200
Street Address:
City: Greensburg Country: United States of America
State: Pennsylvania Zip: 15601 Phone: 724-532-4500
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: Executive Vice President & Treasurer
Official Title/Position: Exec. VP/Treasurer Date Title/Position Assumed: 12/31/2002
Beginning Date of Ownership: NA Percent of Ownership: NA

Name:	Lisa D. Kriebel
Mailing Address:	975 Georges Station Road, Suite 200
Street Address:	
City:	Greensburg Country: United States of America
State:	Pennsylvania Zip: 15601 Phone: 724-532-4500
FEIN:	WVDEP may Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	-
Location in Organizational Structure:	Secretary
Official Title/Position:	Secretary Date Title/Position Assumed: 12/31/2008
Beginning Date of Ownership:	NA Percent of Ownership: NA

Name:	AMCI Holdings, Inc.
Mailing Address:	475 Steamboat Road, Floor 2
Street Address:	
City:	Greenwich Country: United States of America
State:	Connecticut Zip: 06830 Phone: 203-625-9200
FEIN:	WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	Owner
Location in Organizational Structure:	-
Official Title/Position:	- Date Title/Position Assumed: NA
Beginning Date of Ownership:	12/05/2005 Percent of Ownership: 100

Name:	Ward F. Cleary
Mailing Address:	475 Steamboat Road, Floor 2
Street Address:	
City:	Greenwich Country: United States of America
State:	Connecticut Zip: 06830 Phone: 203-625-9200
FEIN:	WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	-
Location in Organizational Structure:	Director
Official Title/Position:	Director Date Title/Position Assumed: 11/9/1988
Beginning Date of Ownership:	NA Percent of Ownership: NA

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** AMCI Holdings, Inc.

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name:	Hans J. Mende
Mailing Address:	475 Steamboat Road, Floor 2
Street Address:	
City:	Greenwich Country: United States of America
State:	Connecticut Zip: 06830 Phone: 203-625-9200
FEIN:	WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	Owner
Location in Organizational Structure:	Director & President
Official Title/Position:	President Date Title/Position Assumed: 12/05/2005
Beginning Date of Ownership:	12/05/2005 Percent of Ownership: 50

Name:	Fritz R. Kundrun
Mailing Address:	475 Steamboat Road, Floor 2
Street Address:	
City:	Greenwich Country: United States of America
State:	Connecticut Zip: 06830 Phone: 203-625-9200
FEIN:	WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	Owner
Location in Organizational Structure:	Director
Official Title/Position:	Director Date Title/Position Assumed: 12/05/2005
Beginning Date of Ownership:	12/05/2005 Percent of Ownership: 50

Name:	Michael J. Walker
Mailing Address:	975 Georges Station Road, Ste. 200
Street Address:	
City:	Greensburg Country: United States of America
State:	Pennsylvania Zip: 15601 Phone: 724-532-4500
FEIN:	WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	-
Location in Organizational Structure:	Executive Vice President & Treasurer
Official Title/Position:	Exec. VP/Treasurer Date Title/Position Assumed: 12/05/2005
Beginning Date of Ownership:	NA Percent of Ownership: NA

Name:	Lisa D. Kriebel
Mailing Address:	975 Georges Station Road, Ste. 200
Street Address:	
City:	Greensburg Country: United States of America
State:	Pennsylvania Zip: 15601 Phone: 724-532-4500
FEIN:	WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant:	-
Location in Organizational Structure:	Secretary
Official Title/Position:	Secretary Date Title/Position Assumed: 3/22/2007
Beginning Date of Ownership:	NA Percent of Ownership: NA

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** POSCO-NCR Coal Ltd.

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name: Jong Ho Kim
Mailing Address: 650 W. Georgia Street, Suite 2350
Street Address:
City: Vancouver BC Country: Canada
State: [None or Not Applicable] Zip: V6B 4N9 Phone: 604-669-6689
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: President, CEO, Director & Secretary
Official Title/Position: Pres/CEO/Dir/Secy Date Title/Position Assumed: 6/2/2014
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: POSCO Canada Limited
Mailing Address: 650 W. Georgia Street, Suite 2350
Street Address:
City: Vancouver BC Country: Canada
State: [None or Not Applicable] Zip: V6B 4N9 Phone: 604-669-6689
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Owner
Location in Organizational Structure: -
Official Title/Position: Owner Date Title/Position Assumed: 06/21/2010
Beginning Date of Ownership: 06/21/2010 Percent of Ownership: 100

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** POSCO Canada Limited

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name:	Jong Ho Kim
Mailing Address:	650 W. Georgia Street, Ste. 2350
Street Address:	
City:	Vancouver, BC
Country:	Canada
State:	[None or Not Applicable]
Zip:	V6B 4N9
Phone:	604-669-6689
FEIN:	WVDEP may request
Social Security Number:	WVDEP may request
Ownership/Control relationship to Applicant:	-
Location in Organizational Structure:	President, CEO, Director & Secretary
Official Title/Position:	Pres/CEO/Dir/Secy
Date Title/Position Assumed:	6/2/2014
Beginning Date of Ownership:	NA
Percent of Ownership:	NA

Name:	POSCO Processing & Service Co., Ltd.
Mailing Address:	POSCO P&S Tower
Street Address:	134 Teheran-ro, Gangnam-gu
City:	Seoul
Country:	Slovak Republic (Slovakia)
State:	[None or Not Applicable]
Zip:	135-923
Phone:	NA
FEIN:	WVDEP may request
Social Security Number:	WVDEP may request
Ownership/Control relationship to Applicant:	Owner
Location in Organizational Structure:	-
Official Title/Position:	Owner
Date Title/Position Assumed:	06/15/2010
Beginning Date of Ownership:	06/15/2010
Percent of Ownership:	100

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:

If N/A , check here: ☐

☐ **A-7** (Partnership)

☑ **A-8** (Owners/Stockholders)

☐ **A-9** (Obligate Finances)

☐ **A-10** (Mineral Owners)

Name of **Entity:** POSCO Processing & Service Co., Ltd.

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name: Young Kwon Shin
Mailing Address: POSCO P & S Tower
Street Address: 134 Teheran-ro, Gangnam-gu
City: Seoul Country: Slovak Republic (Slovakia)
State: [None or Not Applicable] Zip: 135-923 Phone: NA
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: President
Official Title/Position: President Date Title/Position Assumed: 3/14/2014
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: POSCO
Mailing Address: POSCO Center
Street Address: 892 Daechi-4dong, Gangnam-gu
City: Seoul Country: Slovak Republic (Slovakia)
State: [None or Not Applicable] Zip: 135-777 Phone: NA
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Owner
Location in Organizational Structure: -
Official Title/Position: Owner Date Title/Position Assumed: 07/01/1994
Beginning Date of Ownership: 07/01/1994 Percent of Ownership: 100

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** POSCO

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name: Jin-Il Kim
Mailing Address: POSCO Center
Street Address: 892 Daechi-4dong, Gangnam-gu
City: Seoul Country: Slovak Republic (Slovakia)
State: [None or Not Applicable] Zip: 135-777 Phone: NA
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: President
Official Title/Position: President Date Title/Position Assumed: 3/14/2014
Beginning Date of Ownership: NA Percent of Ownership: NA

Name: Oh-Joon Kwon
Mailing Address: POSCO Center
Street Address: 892 Daechi-4dong, Gangnam-gu
City: Seoul Country: Slovak Republic (Slovakia)
State: [None or Not Applicable] Zip: 135-777 Phone: NA
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: -
Location in Organizational Structure: CEO
Official Title/Position: CEO Date Title/Position Assumed: 3/14/2014
Beginning Date of Ownership: NA Percent of Ownership: NA

A-11: Owners - Controllers of Business Entity

A-11. Complete this item when a business entity (rather than an individual) is listed in items A-7, A-8, A-9, or A-10. Identify below the corresponding item in which the entity is listed:
If N/A , check here: ☐

☐ **A-7** (Partnership) ☑ **A-8** (Owners/Stockholders) ☐ **A-9** (Obligate Finances) ☐ **A-10** (Mineral Owners)

Name of **Entity:** JAZ Ventures, L. P.

Identity below all owners and controllers of any business entity. If any person listed is a business entity and not an individual, also complete this item for that entity.

Name: 2010 Irrevocable Trust for Judson L. Kroh dated February 12, 2010
Mailing Address: 809 Weldon Street
Street Address:
City: Latrobe Country: United States of America
State: Pennsylvania Zip: 15650 Phone: 814-446-6700
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Limited Partner
Location in Organizational Structure: -
Official Title/Position: Limited Partner Date Title/Position Assumed: 2/12/2010
Beginning Date of Ownership: 2/12/2010 Percent of Ownership: 33

Name: 2010 Irrevocable Trust for Abigail Hope Kroh dated February 12, 2010
Mailing Address: 809 Weldon Street
Street Address:
City: Latrobe Country: United States of America
State: Pennsylvania Zip: 15650 Phone: 814-446-6700
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Limited Partner
Location in Organizational Structure: -
Official Title/Position: Limited Partner Date Title/Position Assumed: 2/12/2010
Beginning Date of Ownership: 2/12/2010 Percent of Ownership: 33

Name: 2010 Irrevocable Trust for Zachary S. Kroh dated February 12, 2010
Mailing Address: 809 Weldon Street
Street Address:
City: Latrobe Country: United States of America
State: Pennsylvania Zip: 15650 Phone: 814-446-6700
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: Limited Partner
Location in Organizational Structure: -
Official Title/Position: Limited Partner Date Title/Position Assumed: 2/12/2010
Beginning Date of Ownership: 2/12/2010 Percent of Ownership: 33

Name: D. Scott Kroh Amended & Restated Revocable Trust dated Oct 14, 2004
Mailing Address: 809 Weldon Street
Street Address:
City: Latrobe Country: United States of America
State: Pennsylvania Zip: 15650 Phone: 814-446-6700
FEIN: WVDEP may request Social Security Number: WVDEP may request
Ownership/Control relationship to Applicant: General Partner
Location in Organizational Structure: -
Official Title/Position: General Partner Date Title/Position Assumed: 12/22/2010
Beginning Date of Ownership: 12/22/2010 Percent of Ownership: 1

A-12: Applicants Pending/Held Permits

A-12. Identify below all **permit applications pending** and all **permits held** within the five (5) years preceding the date of this application for surface coal mining operations in the United States owned or controlled by the Applicant and/or any person listed in items A-6, A-7, A-8, A-9, A-10 or A-11. Include all operations that the Applicant and/or any person is deemed or presumed to own or control through contract, subcontract, lease, sublease, license, or other contractual relationship, regardless of the entity holding the permit.

If N/A, check here: ☐

Name:	North Central Resources, LLC		
Mailing Address:	200 Chapel Brook Drive		
Street Address:			
City:	Bridgeport	Country:	United States of America
State:	West Virginia	Zip: 26330	Phone: 304-842-8000
FEIN:	WVDEP may request	Social Security No:	WVDEP may request

PERMIT			
Permit Number:	SMA O201312 (Pending	State/Regulatory Authority:	WVDEP
Applicant/Permittee Name:	North Central Resources, LLC		
Operator Name (if different from Permittee):	NA		
Permit Number:	SMA O200313 (Pending	State/Regulatory Authority:	WVDEP
Applicant/Permittee Name:	North Central Resources, LLC		
Operator Name (if different from Permittee):	NA		
Permit Number:	SMA U201512 (Pending	State/Regulatory Authority:	WVDEP
Applicant/Permittee Name:	North Central Resources, LLC		
Operator Name (if different from Permittee):	N/A		

B-1: Suspended/Revoked Permit(s)

B-1. Has the Applicant or any person listed in items A-6, A-7, A-8, A-9, A-10, or A-11 or any subsidiary, affiliate, or person controlled by or under common control with the Applicant:

A. Had a Federal or State coal mining permit suspended or revoked in the five (5) years preceding the date of submission of this application.

○ Yes ◉ No

B. Forfeited a reclamation performance bond or a security deposited in lieu of bond?

○ Yes ◉ No

If Yes to A. or B. above, complete the following:

Name of Applicant or Person:

Permittee:

Permit No: Date of Issuance:

Regulatory authority suspending/revoking the permit:

Stated reason for action:

Bond Amount Forfeited:

Current Status:

If the Applicant or person has been reinstated by the regulatory authority to good standing, check here ☐ Attach a copy of document(s) showing reinstatement and identify as Attachment B-1.

If administrative or judicial proceedings occurred, complete the following:

Date: Location: Type:

Current Status:

B-2: Violation(s)

B-2. Provide a list for any violation of a provision of the Act or the regulations and any other Federal or State laws, rules and regulations pertaining to air, water, and/or environmental protection incurred in connection with any surface mining operation received by the Applicant during the three (3) year period preceding the application date.

If **NONE**, or the Violation List is included as an attachment, check here ☑

Name in which Violation was Issued:
Permit Number:
MSHA Number: Date MSHA Issued:
Violation Number: Date Violation Issued:
Issued By:
Violation Description:
Abatement Actions:
Current Status:

B-3: Unabated Cessation Orders and Air & Water Quality Violation Orders

B-3. Provide a list of all **unabated** cessation orders, and **unabated** air and water quality violation notices received prior to the date of the application by any surface mining reclamation operation owned or controlled by **either** the Applicant or by any person who owns or controls the Applicant listed in items A-6, A-7, A-8, A-9, A-10, or A-11:

If **NONE**, or the Unabated Cession Order List is included as an attachment, check here: ☑

NOTE: If administrative or judicial proceedings, provide Date, Location, and Type of Proceedings

Name in which Violation was Issued:
Permit Number:
MSHA Number: Date MSHA Issued:
Violation Number: Date Violation Issued:
Issued By:
Violation Description:
Abatement Actions:
Current Status:

Administrative Or Judicial Proceedings----------
Date:
Location:
Type Proceedings:

B-4: Mine Operator(s) Information

B-4. Will mine operator(s) be different from applicant?

◉ Yes ○ No

If Yes, it is necessary to complete and submit as a separate application the ⬩Application for Operator Assignment⬩ to the appropriate DEP Regional Office prior to disturbance of the site.

C-1: Legal and/or Equitable Owner(s) of Record Information

Provide a list of the **names and addresses** of each legal or equitable owner of record of the **surface** and **mineral** property to be mined, each **holder of record of any leasehold interest in the property to be mined, and any purchaser of record under a real estate contract for the property to be mined**. Identify each owner by the following classes:

Note: If name listed is a business entity and not an individual, provide names and addresses of officers, directors, and owners of 10% or more.

C-1: Owner of Record

Name:	North Central Resources, LLC		
Mailing Address:	200 Chapel Brook Drive		
Street Address:			
City:	Bridgeport	Country:	United States of America
State:	West Virginia	Zip: 26330	Phone: 304-842-8000

OWNER CLASS:

- ○ Surface Owner Only
- ○ Mineral Owner Only
- ◉ Surface and Mineral Owner
- ○ Leasehold Interest
- ○ Real Estate Purchaser

Note: If name listed is a business entity and not an individual, provide names and addresses of officers, directors, and owners of 10% or more below.

Business Entity Breakdown			
Name:			
Mailing Address:	See Sections A-8 and A-11 for Owner/Officer Information		
Street Address:			
City:		Country:	United States of America
State:	West Virginia	Zip:	Phone:
Title:		Percent Ownership:	

C-2: Owner Legal Documents

C-2. For each owner listed in C-1 , provide below a description of the legal documents upon which the applicant bases his legal right to enter and conduct mining operations.

Note: DEP may require copies of these documents.

Owner of Record:	North Central Resources, LLC
Document Type:	Deed
Grantor of Right:	Gebruder, Inc.
Date of Execution:	12/31/2002
Location Where Filed:	Barbour County Courthouse and North Central's office
Owner of Record:	Gebruder, Inc.
Document Type:	Deed
Grantor of Right:	Primeacre Land Corporation
Date of Execution:	07/26/1991
Location Where Filed:	Barbour County Courthouse
Owner of Record:	John K. Shaw, Trustee
Document Type:	Deed
Grantor of Right:	A. L. Ward, Jr.
Date of Execution:	08/24/1899
Location Where Filed:	Barbour County Courthouse and North Central's office
Owner of Record:	S&B Resources, LLC
Document Type:	Quitclaim Deed and Assignment (resrv of subject property by NCR)
Grantor of Right:	North Central Resources, LLC
Date of Execution:	02/27/2008
Location Where Filed:	Barbour, Harrison & Upshur County Courthouses

C-3: Pending Court Litigation Information

C-3. Are any rights identified in C-2 the subject of pending court litigation?

○ Yes ◉ No

If Yes, provide the names of the parties, the court and the case number involved below:

NAME	COURT	CASE NUMBER

C-4: Private Mineral/Surface Estate Information

C-4. Has the private mineral estate been severed from the private surface estate?

◉ Yes ○ No

If Yes, submit one of the following documents and identify as Attachment C-4.

○ A letter from the surface owner (s) consenting to the use of surface mining methods to extract coal within the proposed permit area; or

◉ A copy of a legal conveyance or judicial order which expressly grants or reserves the right to extract coal by surface mining methods.

C-5: Property Owner Information

C-5. Provide **names and addresses** for **each owner of record of all property, surface and subsurface, and non-owner residents living on property within one hundred (100) feet** of any part of the proposed permit area.

If **NONE**, check here ☐

NOTE: Include a sample of the letter of notification to all residents living on property contiguous to and/or within 100' of the proposed permit area and identify as Attachment C-5. Notification by certified mail must occur on or before the first day of publication of the advertisement and SMA No. must be referenced

Name: CSX Transportation Inc. A & O Railroad
Mailing Address: 1500 Kentucky Avenue
Street Address:
City: Paducah Country: United States of America
State: Kentucky Zip: 42003 Phone:

RESIDENT CLASS:
○ Owner/Resident
○ Non-Owner Resident

OWNER CLASS:
◉ Surface Owner Only
○ Mineral Owner Only
○ Surface and Mineral Owner

Name: Mr. & Mrs. Ernest L. Payne
Mailing Address: Rt. 1 Box 22
Street Address:
City: Volga Country: United States of America
State: West Virginia Zip: 26238 Phone:

RESIDENT CLASS:
○ Owner/Resident
○ Non-Owner Resident

OWNER CLASS:
◉ Surface Owner Only
○ Mineral Owner Only
○ Surface and Mineral Owner

Name: United Mine Workers #4172
Mailing Address: 149 West View Acres Road
Street Address:
City: Buckhannon Country: United States of America
State: West Virginia Zip: 26201 Phone:

RESIDENT CLASS:
- ○ Owner/Resident
- ○ Non-Owner Resident

OWNER CLASS:
- ◉ Surface Owner Only
- ○ Mineral Owner Only
- ○ Surface and Mineral Owner

Name: Mr. & Mrs. Denis C. Whitaker
Mailing Address: RR 1 Box 19A
Street Address:
City: Volga Country: United States of America
State: West Virginia Zip: 26238 Phone:

RESIDENT CLASS:
- ◉ Owner/Resident
- ○ Non-Owner Resident

OWNER CLASS:
- ◉ Surface Owner Only
- ○ Mineral Owner Only
- ○ Surface and Mineral Owner

Name: Mr. & Mrs. John S. Winslow and Mr. Charles D. Winslow
Mailing Address: RR 1 Box 19B
Street Address:
City: Volga Country: United States of America
State: West Virginia Zip: 26238 Phone:

RESIDENT CLASS:
- ○ Owner/Resident
- ○ Non-Owner Resident

OWNER CLASS:
- ◉ Surface Owner Only
- ○ Mineral Owner Only
- ○ Surface and Mineral Owner

Name: Mr. & Mrs. John R. Ward, III
Mailing Address: RR 1 Box 29D
Street Address:
City: Volga Country: United States of America
State: West Virginia Zip: 26238 Phone:

RESIDENT CLASS:
- ○ Owner/Resident
- ○ Non-Owner Resident

OWNER CLASS:
- ◉ Surface Owner Only
- ○ Mineral Owner Only
- ○ Surface and Mineral Owner

Name:	North Central Resources, LLC
Mailing Address:	200 Chapel Brook Drive
Street Address:	
City:	Bridgeport Country: United States of America
State:	West Virginia Zip: 26330 Phone:

RESIDENT CLASS:
- ○ Owner/Resident
- ○ Non-Owner Resident

OWNER CLASS:
- ○ Surface Owner Only
- ◉ Mineral Owner Only
- ○ Surface and Mineral Owner

C-6: Permit Area Questionaire

C-6. Complete the following to indicate whether or not any portion of the proposed permit area is:

Yes	No	
○	◉	within any lands under study for designation as unsuitable for surface coal operation;
○	◉	within the boundaries of the National Park System;
○	◉	within the boundaries of the National Wildlife Refuge System;
○	◉	within the boundaries of the National System of Trails;
○	◉	within the boundaries of the National Wilderness Preservation System;
○	◉	within the boundaries of the wild and scenic rivers system, including "study" rivers;
○	◉	within the boundaries of the National Recreation Areas;
○	◉	within the boundaries of the National Forest;
○	◉	with adversely impact any publicly-owned park or places included in, or may be eligible to be included in, the National Register of Historic Sites, or National Register of Natural Landmarks;
○	◉	within 300 feet of any public building;
○	◉	within 300 feet of any school;
○	◉	within 300 feet of any church;
○	◉	within 300 feet of any community or institutional building;
○	◉	within 300 feet of any public park; or
○	◉	within 100 feet of a cemetery.

If any of the above is Yes, provide proof of Valid Existing Rights (VER). *Identify as Attachment C-6.*

C-7: Right-Of-Way/Occupied Dwelling Information

C-7. Complete the following to indicate whether or not any portion of the proposed permit area is:

A. Within 100 feet of the right-of-way of any public road, except where mine haulage or access road joins such right-of-way;

○ Yes ◉ No

If Yes, provide the basis for this response and identify by checking the item(s) which apply:

○ Proof of Valid Existing Rights; or

○ Public Notice by Advertisement.

B. Within 300 feet of any occupied dwelling;

◉ Yes ○ No

If Yes, provide the basis for this response and identify by checking the item(s) which apply:

○ Proof of Valid Existing Rights; or

◉ Notarized written waivers which identify the dwelling(s) by number (corresponding to the proposal map).

C-8: Permit Area Boundary Information

C-8. Is the proposed permit area within the boundaries of the following:

Yes	No	
◉	○	Any governmental planning agencies that have jurisdiction to act regarding land use, air, or water quality planning?
◉	○	Any water companies or municipal authorities that provide sewage or water service or that have facilities, including sources of water supply?

If Yes, provide names and mailing addresses below:

Name:	Region VII Planning and Development Council				
Mailing Address:	One Edmiston Way, Suite 225				
Street Address:					
City:	Buckhannon	Country:	United States of America		
State:	West Virginia	Zip:	26201	Phone:	304-472-6564
Name:	U. S. Department of Fish and Wildlife Service				
Mailing Address:	694 Beverly Pike				
Street Address:					
City:	Elkins	Country:	United States of America		
State:	West Virginia	Zip:	26241	Phone:	304-636-6586
Name:	West Virginia Division of Culture and History				
Mailing Address:	The Cultural Center - Capitol Complex				
Street Address:	1900 Kanawha Blvd., East				
City:	Charleston	Country:	United States of America		
State:	West Virginia	Zip:	25305-0300	Phone:	304-558-0220
Name:	Century Volga Public Service District				
Mailing Address:	Route 1 Box 78				
Street Address:					
City:	Philippi	Country:	United States of America		
State:	West Virginia	Zip:	26416	Phone:	304-457-5735
Name:	Barbour County Commission				
Mailing Address:	8 North Main Street				
Street Address:					
City:	Philippi	Country:	United States of America		
State:	West Virginia	Zip:	26416	Phone:	304-457-4339
Name:	WV Division of Highways, District 7				
Mailing Address:	255 Depot Street				
Street Address:					
City:	Weston	Country:	United States of America		
State:	West Virginia	Zip:	26452-1228	Phone:	304-269-0400

C-9: Applicant Contiguous Land Information

C-9. Include a list of all lands, interests in lands, or options on such interests held by the applicant or pending bids on interest in lands by the applicant, which lands are contiguous to the area to be covered by this application. Identify as Attachment C-9.

If **None**, check here; ☑

C-10: Sample DEP News Advertisement

In Section Z, include a completed copy of DEP's sample newspaper advertisement that will be used to give public notice of intent to mine.

DO NOT attach an advertisement here - provide it in Section Z.

Check below the special items which have been included in the public notice of intent to mine:

- [ ] Mining within 100 feet of the outside right-of-way of a public road.
- [ ] *Relocation or closure of a public road.
- [x] Land Use Change.

NOTE: Certification of publication must be submitted within four weeks after last date of publication.

*Requires permission from the authority with jurisdiction over the public road.

D-1: Certificate of Insurance

D1. Include a current Certificate of Insurance:

Policy Number: 013811408R3 Expiration Date: 09/23/2015

Instructions: Bonding Instructions

Complete Bond Calculation Tables (D-2 Table 1-4) for each mining category applicable within the site boundary. It is **very important** that you complete this section in sequence they appear in the menu.

For Loadout Only and Haulroad Only sites, you do not need to complete a Bond Calculation Table.

Upon completion of the tables, you are ready to complete the General Bonding Section. Here you will break the site down by increment(s) and mining categories. You will see 3 additional options here that you do not have a direct Bond Calculation table for: EPZ Fill, contemporaneous reclamation waiver, and haulroad only. These are only available at this level, to properly reflect the override in rate from the tables.

If any of the tables are **changed after** the General Bonding Section and Bond Totals sections have been visited, you will need to open these pages in sequence and mark the section as incomplete and save the pages. This allows them to repopulate with the newest information and redo the calculations in these pages.

For Renewal applications:

Change in Bonding Method is allowed: full to incremental and incremental to full. Here again, complete Tables then go to General Bonding Section. When this page opens, before you start to make any changes, look down at your list of increments, their acres and mining category breakdowns. If any of this information is incorrect or missing (mining category breakdowns with acres) contact DEP and have this resolved. Once the information is updated in ERIS, DEP internal system, you will need to RESET this page to bring over the newest information. Double check the information after the reset and repeat if necessary.

Contacts:

Renee Chapman	304-926-0499 x 1517	Renee.D.Chapman@wv.gov (mailto:Renee.D.Chapman@wv.gov)
Amy Crouser	304-926-0499 x 1484	Amy.L.Crouser@wv.gov (mailto:Amy.L.Crouser@wv.gov)

DEP is currently working the changes to this section into the Amendment, IBR, Revision and Transfer applications. Additional guidance for these applications will be added here as they become available.

Table 3: Bond Calculation Coal Preparation Plant

On each row, click the radio button which applies.

				0.2		0.6		1.0
SIZE	**1600**							
Capacity (Tons/Hour)	1000		< 200:	0	200 to 750:	0	> 750:	1000
Silo Capacity (Tons)	800	n/a	< 2500:	0	2500 to 5000:	0	> 5000:	0
Stockpile Acreage (Acres)	200		< 5:	0	5 to 10:	0	> 10:	200
REFUSE SITE	**1000**							
Impounding (Acre-feet)	800	n/a	< 20:	0	20 to 50:	0	> 50:	0
Non-Impounding (Acres)	200	n/a	< 10:	0	10 to 20:	0	> 20:	0
RECLAMATION PLAN	**1200**							
Permit Acreage (Acres)	800		< 20:	0	20 to 50:	0	> 50:	800
Duration (Years)	400		< 5:	0	5 to 10:	0	> 10:	400
OPERATOR PERFORMANCE	**1200**							
Violation History (Avg. Viol/Permit)	800		< 3:	0	3 to 5:	0	> 5:	800
Status Existing Operation.	400		Full Compliance:	0	Compl. 90% Current:	0	Basic Comp. 75% Cur.:	400
ENVIRONMENTAL ENHANCEMENT	**-1000**							
Reclamation Award:	-600	n/a	One Local:	0	> 1 Local:	0	Local & National:	0
Wetlands:	-400	n/a	< 1 Acre:	0	1 to 5 Acres:	0	> 5 Acres:	0
Subtotals:				0		0		3600
TABLE 3 COAL PREPARATION PLANTS					**SITE SPECIFIC RATE (max $5,000 per acre):**			3600

Bonding: General Bonding Section

D-2. Site Specific Performance Bond.

- ○ Full Permit Bonding
- ◉ Incremental Bonding

Check the following that apply:

- ○ Haulroad Only Permit
- ○ Loadout Only Permit
- ○ Contemporaneous Reclamation Waiver

If you have marked any of these options, you must complete this page, but you do NOT complete Tables 1-4 of this section.

Original Permit Area (Acres):	Current Permit Area (Acres):	Net Previous Change (Acres):
		0.00

Total Increments as indicated on Proposal Map 4 (*$10,000.00 minimum per increment*)

Action	Increment Number	Category	Current Acres	Add	Delete	Adjusted Acres	Current Rate	Blast?	Bond?
New	1	Prep Plants	0	18.70	0	19	3600	Yes	Yes
New	2	Prep Plants	0	97.38	0	98	3600	Yes	No
New	3	Prep Plants	0	70.39	0	71	3600	Yes	No
New	4	Prep Plants	0	28.53	0	29	3600	Yes	No

Totals: Bond Totals

Increment Number	Action	Current Acres	Add	Delete	Proposed Acres	Current Rate	Total Amount	Adjusted Amount	Bond?
1	New	0	18.7	0	19	3600	68400	68400	Yes
2	New	0	97.38	0	98	3600	352800	352800	No
3	New	0	70.39	0	71	3600	255600	255600	No
4	New	0	28.53	0	29	3600	104400	104400	No

TOTAL BOND AMOUNT NEEDED WITH THIS APPLICATION: 68400

TOTAL BOND AMOUNT: 781200

F-1: Prime Farmland Information

F-1. Did the applicant's reconnaissance inspection or soil survey indicate that all or any part of the proposed permit area is prime farmland? ○ Yes ◉ No

If Yes, submit a soil survey to confirm the exact location of such lands. *Identify* survey as *Attachment F-1* and delineate the area of prime farmland on the PROPOSAL MAP.

See Attachment F-5

If No, provide the basis for this response by checking the item(s) that apply:

- ☑ No land within the proposed permit area has been historically used for cropland.
- ☑ The slope of all land within the proposed permit area is ten percent (10%) or greater.
- ☑ Other factors *(i.e., rocky surface, frequent flooding)* disqualify the land as prime farmland.
- ☐ A qualified person other than the applicant has conducted a soil survey and determined in writing that no prime farmland is present. Identify this determination and provide results of the soil survey. *Identify as Attachment F-1*.

F-2: Existing Land Use Information

F-2. Indicate the existing land uses within the proposed permit area:

NOTE: If you selected "Previously Mined and Not Reclaimed", then delineate on PROPOSAL MAP those areas that were previously mined and not reclaimed.

Primary	Secondary	Land Use Name	Action
◉	○	Previously Mined and Not Reclaimed	New
○	◉	Forestland	New
○	◉	Hayland or Pasture	New

F-3: Land Use Change Information

F-3. Has there been a land use change during the five (5) years preceding the date of this application?

○ Yes ◉ No

If Yes, describe the historic land use:

F-4: Postmining Land Use Information

F-4. Indicate the postmining land uses below.

Primary	Secondary	Land Use Name	Action
◉	○	Hayland or Pasture	New

Describe the methodology for the determination, and the maintenance program for said postmining land use. *Identify as Attachment F-4.*

See Attachment F-4

If a postmining land use change is indicated, the premining land use and postmining land use must be included in the advertisement. The request for postmining land use change must meet the criteria described in the Surface Mining Reclamation Regulations.

F-5: Productivity of Land Prior to Mining Information

F-5. Provide, using the best information available, a description of the productivity of land prior to mining and the average yield of food, fiber, forage or wood products from such lands obtained under high levels of management. *Identify as Attachment F-5.*

See Attachment F-5

Information on productivity and yield was obtained from the National Resources Conservation Service National Cooperative Soil Survey.

F-6: Capability of Land Prior to Mining and After Reclamation

F-6. Provide, using the best information available, a description of the land's capability to support a variety of uses prior to mining AND after reclamation. *Identify as Attachment F-6.*

See Attachment F-5

G-1: Affected Publicly Owned Park Information

G-1. Will any publicly owned parks be affected by the proposed operation?

○ Yes ◉ No

If Yes, name and locate them on the PROPOSAL MAP and describe the measures to be taken to minimize or prevent adverse impacts from mining on these areas. *Identify as Attachment G-1.*

G-2: Historic Places and Archaeological Site Protection Information

G-2. Describe any cultural or historic resources listed, or eligible for listing on the National Register of Historic Places and any known archaeological sites within the proposed permit area and adjacent areas. Include a description of the measures to be taken to protect these resources. *Identify as Attachment G-2.* If None, check here: ☑

G-3: State Historic Preservation Officer Information

G-3. The applicant shall provide to DEP, as a separate package, the following information for the State Historic Preservation Officer (SHPO) review and subsequent response:

A. Two topographic maps of the proposed mining site and surrounding area;
   1. One at a scale of 1" to 500' color coded to show the boundaries and extent of the proposed surface mining operation; and
   2. One at a scale of 1" to 2000' to show boundaries of the proposed surface mining operation.

B. Photographs of any structures (excluding trailers and temporary buildings, any structure built within the past twenty-five years, and equipment) situated on the proposed mining operation and directly adjacent to the operation; and

C. A statement of the conditions of the proposed surface mining operation with particular attention given to any known historic, cultural, or archeological resources.

Identify as Attachment G-3.

SHPO clearance has been attached

H-1: Fish and Wildlife Information

H-1.	Provide fish and wildlife resources information for the proposed permit and adjacent area. Give a general overview for these areas including but not limited to habitat and forest cover types; physiographic region; common, unique, or important game and other indigenous plant and animal species. *Identify as Attachment H-1.* See Attachment H-1

H-2: West Virginia Division of Natural Resources Wildlife Resources Section

H-2	Attach the West Virginia Division of Natural Resources, Wildlife Resources Section, Wildlife Lands Inquiry Response application letter and corresponding response. *Identify as attachment H-2.* The Lands Inquiry Database Request and respoonse have been attached.

H-3: Site Specific Habitats or Species of Concern

H-3.	Provide site-specific resource information necessary to address the respective habitats or species of concern if any, identified on the Wildlife Lands Inquiry Response. *Identify as attachment H-3.* The Wildlife Resources Lands Inquiry Response from the West Virginia Division of Natural Resources has been included in Section H-2. All runoff from the proposed operation will be routed through sediment structures which will be monitored by the storm water requirements of the National Pollution Discharge Elimination System (NPDES) Water Pollution Control Permit which will diminish any adverse effect from occurring to the watershed as a result of this mining operation.

H-4: Endangered Species Act

H-4.	Provide information at the site-specific level regarding endangered species and their habitats. Attach the applicant's initial application/notification letter to the West Virginia Department of Environmental Protection pertaining to the site-specific endangered species consultation relative to the proposal. (See permit handbook, section 27-4 for guidelines and applicability.) Attach the corresponding West Virginia Department of Environmental Protection response. In chronological order, continue to provide any further related documentation, determinations, correspondence, or related studies (e.g. bat survey, if applicable) up to and including completion/closure of consultation with the West Virginia Department of Environmental Protection. *Identify as attachment H-4.* A site-specific endangered species consultation closure letter has been attached.

H-5: Disturbance and Adverse Impact Information

H-5.	Provide a description of how, to the extent possible using the best technology available, the operator will avoid and minimize disturbances and adverse impacts to fish and wildlife and related environmental values during the surface mining and reclamation operations. Include protective measures that will be used during active mining. Also include restoration and enhancement measures that will be used during reclamation, where practicable. Where the plan does not include these measures, a statement shall be given explaining why they are not practicable. *Identify as attachment H-5.* Only an area necessary to efficiently conduct refuse disposal activities will be permitted. Runoff will be directed into sediment control structures before discharging into local streams. Finished slopes will be seeded as soon as practical. Sedimentation control will be completed prior to any disturbance. Regular maintenance of the sediment control structures should minimize adverse impacts on fish and wildlife. Through the mining, reclamation and sediment control plans, adverse impacts to fish and wildlife, and related environmental values will be minimized. The Lands Inquiry Response was applied for by the applicant and has been provided. The Lands Inquiry Response identified Elk Creek as a high quality stream. The project is not anticipated to have any adverse impacts on Elk Creek due to proposed NPDES and SMCRA permit requirements.

H-6: Fish And Wildlife Habitat and Recreation Lands

H-6. Is the proposed postmining land use Fish & Wildlife Habitat and Recreation Lands?

○ Yes ◉ No

If Yes, provide documentation of approval by the West Virginia Division of Natural Resources Wildlife Resources Section. *Identify as attachment H-6.*

I-1: Coal Seam(s), Rider(s) and Refuse Information

I-1. Provide the following information for all coal seam(s), rider(s), and/or refuse to be mined, processed, stockpiled, or affected by the proposed operation.

Note: Indicate % Sulfur Forms for Organic, Pyritic, Sulfate, and Total below.

Coal, Rider Seam(s) And/Or Coal Refuse (USGS Name)	Thickness (Inches)	Organic	Pyritic	Sulfate	Total
Kittanning - Lwr	84	0.533	1.058	0.034	1.625

I-2: Anticipated Gravity Discharge Information

I-2. Is gravity discharge anticipated from a proposed underground mine or augering area?

○ Yes ○ No ◉ N/A

If Yes, and coal seams are defined as acid-producing, provide site-specific data demonstrating that the seams to be mined are not acid-producing or iron-producing in the location of the proposed mine. *Identify as Attachment I-2.*

I-3: Coal Fly Ash Usage Information

I-3. Is coal fly ash usage proposed?

○ Yes ◉ No

If Yes, complete Coal Ash Utilization Form (MR-36) for each source.

I-4: Coal Processing Refuse Disposal Information

I-4. Is coal processing refuse disposal proposed?

○ Yes ◉ No

If Yes, provide overburden analysis to show its chemical properties. *Use Attachment I-4.*

I-5: Durable Rockfill(s) Information

I-5. Are durable rockfills proposed?

○ Yes ◉ No

If Yes, provide slake durability analysis. *Use Attachment I-5.*

I-6: Geologic Information Waiver Request

I-6. Does the applicant request a waiver of the requirement to provide certain geologic information?

○ Yes ◉ No

If Yes, address A. and B. below:

A. Check the type of waiver(s) requested:

☐ Results of test borings as requested in I-11.

☐ Engineering properties of soft rock for underground mines as requested in I-12.

B. Provide the specific source of existing equivalent information available upon which the request for waiver is based. *Identify as Attachment I-6.*

I-7: Certified Geologic Cross Sections

I-7. Provide certified geologic cross-sections which include the following: *Identify as Attachment I-7*.

A. Nature and depth of the various strata or overburden including geologic formation names and/or geologic members as described by the U.S. Geological Survey or other published geologic reports;

B. Presence of any known structural features such as faults, fractures, anticlines, synclines, and monoclines;

C. Depth of weathering identified during exploration and drilling;

D. Nature and thickness, in inches, of all coal or rider seams above and immediately below the proposed coal seam(s) to be mined;

E. Nature and thickness of the stratum immediately beneath the lowest coal seam to be mined;

F. Vertical distribution of aquifers and the name(s) of the stratum (or strata) in which the water is found. For each aquifer system, show the seasonal fluctuations in head and general water quality information. Also, provide appropriate cross-references to the detailed water quality information under the baseline ground water information section; and

G. Denote any potentially acid-producing materials, topsoiling, and durable materials.

See Attachment I-7 and Geologic Cross Section A-A' (Drawing No. B12-608-M8)

I-8: Certified Geohydrologic Map

I-8. Provide a certified geohydrologic map identifying the following: *Identify as Attachment I-8*.
NOTE: Proposal map can be utilized only if this additional information does not make the map difficult to read.

A. Locations (latitude and longitude) and elevation of all bore holes and sampling sites;

B. All minerals croplines and the strike and dip of the coal to be mined;

C. Existing or previous surface mining limits with their permit numbers;

D. Location and extent of known workings of any underground mines and auger mined areas, including mine openings to the surface. Label these openings as to whether they are currently discharging water or are known to have discharged water in the past;

E. Areal extent of aquifers with the name(s) of the stratum (or strata) in which the water is found and show the anticipated direction of water movement;

F. Location and depth of all oil and gas wells, and their Office of Oil and Gas permit numbers, for all wells which are within the proposed mining limits (surface or underground) and/or within 1000 feet of the proposed permit boundary;

G. Presence and attitude of any known structural features such as faults; axial traces of synclines, anticlines, and monoclines; and any recognized fracture patterns of lineament traces;

H. Location of geologic cross-section(s).

See Attachment I-8 and Geohydrologic Map (Drawing No. B12-608-M5) and the Pittsburgh And Redstone Seam Mining Map (Drawing No. B12-608-M2)

I-9: Detailed Geologic Description

I-9. Provide a detailed geologic description of the permit and adjacent areas which include the following: *Identify as Attachment I-9*.

A. Stratigraphic and lithologic descriptions of the area to be affected by mining;

B. Hydrogeologic setting including the areal and vertical distribution of all aquifers; seasonal differences in head; the name(s) of the stratum (or strata) in which the water is found; and the availability, movement, quality of ground water flow in all aquifer units;

C. Structural geology of the coal seam and the strata to be affected by mining both in the permit and adjacent areas, including faults, folds, fracture and lineament traces, and regional and site specific strike and dip;

D. Geochemical character of all strata and coal to be disturbed by mining and the potential of this strata for generating acid, alkaline, or iron-laden drainage;

E. Depth and degree of weathering of area strata and the effects this weathering has on the physical and geochemical properties of the overburden proposed for disturbance;

F. Effects of fracturing and weathering on the extraction of coal and the hydrologic regime;

G. Anticipated impacts of all proposed and existing operations on the geology and hydrology of the area, including impacts resulting from multiple seam mining and subsidence;

H. For underground mining operations (including auger mining) indicate whether or not there is the potential for gravity discharge(s) and the anticipated quantity and quality of the discharge(s) from each potential discharge site. For non-gravity discharge situations, indicate the potential for seepage along the outcrop barrier and the potential hydraulic head which might result in the underground workings. Indicate if the potential discharge will require chemical treatment.

See Attachment I-9 and Geohydrologic Map (Drawing No. B12-608-M5) and the Geologic Cross Section A-A' (Drawing No. B12-608-M8).

I-10: Geologic Borehole Log

I-10. Provide complete Geologic Borehole Log for all test borings and coreholes in the proposed permit and adjacent area.

This data is to be provided in EQuIS (Environmental Quality Information System) MEDD (Multimedia Electronic Data Deliverable) format. Completed MEDDs should be attached to this page.

Multimedia Electronic Data Deliverables and their templates are available here:

When preparing an application for initial submission to DEP you should **not** attempt to register your site at this point in time with EQuIS. You need to obtain the template files and use them to report the analysis information, where you will leave the Site and Sub-Site columns empty. The EQuIS site registration process requires you provide your permit number, which DEP does not issue until your application has been submitted and fees paid. During the review of your application the DEP Reviewer will provide guidance as to when to do the EQuIS site registration.

To reference any **existing** Geologic Borehole Log Data in EQuIS system, provide the site number, sub-site number and location codes below.

Existing Geologic Borehole Log EQuIS Data					
Site:		Sub-site:		Location:	

I-11: Statement of Results Information

I-11. Provide a statement of results of the test borings or core samples for the proposed permit and adjacent areas.

See Attachment I-11

This data is to be provided in EQuIS (Environmental Quality Information System) MEDD (Multimedia Electronic Data Deliverable) format. Completed MEDDs should be attached to this page.

Multimedia Electronic Data Deliverables and their templates are available here:

When preparing an application for initial submission to DEP you should **not** attempt to register your site at this point in time with EQuIS. You need to obtain the template files and use them to report the analysis information, where you will leave the Site and Sub-Site columns empty. The EQuIS site registration process requires you provide your permit number, which DEP does not issue until your application has been submitted and fees paid. During the review of your application the DEP Reviewer will provide guidance as to when to do the EQuIS site registration.

To reference any **existing** data in EQuIS system, provide the site number, sub-site number and location codes below.

Existing Test Borings or Core Samples Data					
Site:		Sub-site:		Location:	

I-12: Coal Seam Stratum Clay and Soft Rock Information

I-12. Provide for room and pillar mining operations the thickness and analyzed engineering properties of clays or soft rock in the stratum immediately above and below each coal seam to be mined. *Identify as Attachment I-12.*

N/A

I-13: Topsoil Substitute Information

I-13. Will topsoil substitute be utilized?

○ Yes ◉ No

If Yes, include analysis of original topsoil, topsoil substitute, and appropriate certifications. Demonstrate that the proposed substitute material is of sufficient quantity and equally suitable for sustaining vegetation as the existing topsoil and the resulting soil medium is the best available in the permit area to support vegetation. *Identify as Attachment I-13.*

J-1: Proposal Map Surface and Ground Water

J-1. Identify on the PROPOSAL MAP all surface water and ground water bodies on the proposed permit area, adjacent and areas over the proposed mineral extraction.

J-2: Ground Water Inventory

J-2 Provide a Ground Water Inventory on the proposed permit area, adjacent areas and areas over the proposed mineral extraction.

See Attachment J-2 and the 1/2 Mile Groundwater Inventory Map (Drawing No. B12-608-M1)

Name:			
Mailing Address:			
Street Address:			
City:		Country:	United States of America
State:	West Virginia	Postal Code:	
Well:		Spring:	

J-3: Baseline Surface Water Sample Information

A. Baseline Sampling Site Description - Surface Water

- ○ N/A (Not an option for SMA application)
- ◉ Baseline Sampling Site Description - Surface Water table added. (See instructions)

B. Provide Baseline Water Quality and Quantity information for the proposed permit area, adjacent areas and areas over the proposed mineral extraction. (See instructions)

- ○ N/A (Not an option for SMA application)
- ◉ Baseline Surface Water Analysis added.

Parameters to be analyzed are:

Total Hot Acidity (mg/l or ppm)
Total Alkalinity (mg/l or ppm)
Total Dissolved Solids (mg/l or ppm)
Total Iron (mg/l or ppm)
pH (Std. Units)
Sulfates (mg/l or ppm)
Mineral Acidity (mg/l or ppm)
Aluminum (mg/l or ppm)
Flow (cfs or gpm)
Total Manganese (mg/l or ppm)
Specific Conductance (µmhos)
Total Suspended Solids (mg/l or ppm)

C. Provide one-time analyses for all Baseline Surface Water sites. (See instructions)

- ○ N/A (Not an option for SMA application)
- ◉ One-time Baseline Surface Water Analysis added.

Parameters to be analyzed are:

Total Acidity (mg/l or ppm)
Total Aluminum (mg/l or ppm)
Arsenic (mg/l or ppm)
Cadmium (mg/l or ppm)
Chromium (mg/l or ppm)
Cyanide (mg/l or ppm)
Field pH (Std. Units)
Total Iron (mg/l or ppm)
Total Manganese (mg/l or ppm)
Nickel (mg/l or ppm)
Phenols (mg/l or ppm)
Silver (mg/l or ppm)
Total Sulfates (mg/l or ppm)
Temperature (C)
Turbidity (mg/l or ppm)
Total Alkalinity (mg/l or ppm)
Antimony (mg/l or ppm)
Beryllium (mg/l or ppm)
Total Chlorides (mg/l or ppm)
Copper (mg/l or ppm)
Total Dissolved Solids (mg/l or ppm)
Flow (cfs or gpm)
Lead (mg/l or ppm)
Mercury (mg/l or ppm)
Nitrates (mg/l or ppm)
Selenium (mg/l or ppm)
Specific Conductance (µmhos)
Total Suspended Solids (mg/l or ppm)
Thallium (mg/l or ppm)
Zinc (mg/l or ppm)

J-4: Baseline Ground Water Sample Information

A. Baseline Sampling Site Description - Ground Water

- ○ N/A (Not an option for SMA application)
- ◉ Baseline Sampling Site Description - Ground Water table added. (See instructions)

B. Provide Baseline Water Quality and Quantity information for the proposed permit area, adjacent areas and areas over the proposed mineral extraction. (See instructions)

- ○ N/A (Not an option for SMA application)
- ◉ Baseline Ground Water Analysis added.

Parameters to be analyzed are:

Total Hot Acidity (mg/l or ppm)
Total Alkalinity (mg/l or ppm)
Total Dissolved Solids (mg/l or ppm)
Total Iron (mg/l or ppm)
pH (Std. Units)
Sulfates (mg/l or ppm)
Mineral Acidity (mg/l or ppm)
Aluminum (mg/l or ppm)
Flow (cfs or gpm) or Depth of Water (ft)
Total Manganese (mg/l or ppm)
Specific Conductance (µmhos)
Total Suspended Solids (mg/l or ppm)

J-5: Seasonal Discharge Rate/Usage and Water Depth Information

J-5. Are there significant Aquifers on the proposed permit area, adjacent areas and/or areas over the proposed mineral extraction?

(●) Yes ( ) No

If Yes, Provide a description to include discharge rates or usage and depth to water under seasonal conditions. *Identify as Attachment J-5.*

See Attachment J-5

J-6: Probable Hydrologic Consequences Information

J-6 Provide a statement describing the Probable Hydrologic Consequences (PHC) of the Proposed mining operation, with respect to the hydrologic balance, on the permit area, adjacent areas, and over the proposed mineral extraction. The statement must provide the following information:

Identify as attachment J-6.

WATER QUANTITY:

- Whether the proposed operation may result in water supply diminution or interruption for any ground or surface water source currently being used for domestic, agricultural, industrial or any other legitimate purpose;
- Potential Impact the Proposed operation will have on flooding or streamflow alteration, including channel scoring and dewatering of streams;
- Whether the proposed operation will disturb aquifers that significantly insure water use;
- Potential effects of the proposed operation on ground and surface water availability.

WATER QUALITY:

- Whether the proposed operation may result in water supply contamination for any underground or surface water source currently being used for domestic, agricultural, industrial, or any other legitimate purpose;
- Whether acid or toxic forming materials are present which could result in the contamination of surface or ground water
- Potential Impact the proposed operation will have on sediment yield;
- Potential impacts resulting from increases in total hot acidity, total suspended solids, dissolved solids, and other important water quality parameters.

GRAVITY DISCHARGE/OUTCROP SEEPAGE:

- Potential for gravity discharge from the underground workings during and after mining, the potential impacts resulting from the complete failure of the outcrop barrier, and the formation of outcrop seepage faces. (Provide calculations)

See Attachment J-6

J-7: PHC indications of Contaminated, Diminished, or Interrupted Ground Water

J-7. Does the PHC indicate that a currently used or significant ground water resource is likely to be contaminated, diminished, or interrupted?

( ) Yes (●) No

If Yes, provide the following information. *Identify as attachment J-7*

A. Identify the alternative water source(s) and provide a detailed description of any aquifer, developed or undeveloped, proposed as an alternative water source;

- If the alternative source(s) is developed, show the location on the proposal map using designation AW-1, AW-2, etc.
- If the alternative source(s) is undeveloped, provide proposed plans and specifications.

B. Provide water quality and quantity data demonstrating its suitability for the identified use(s).

J-8: PHC indications of Contaminated, Diminished, or Interrupted Surface Water

J-8. Does the PHC indicate that a currently used or significant surface water resource is likely to be contaminated, diminished, or interrupted?

○ Yes ◉ No

If Yes, provide the flood flows, base flows, and other characteristics to fully evaluate such probable hydrologic consequences as water availability and suitability for both the pre mining and postmining land use in order to plan remedial and reclamation activities. *Identify as Attachment J-8*

J-9: Request for Waiver of Ground Water Monitoring

J-9. Is a waiver of ground water monitoring requested?

○ Yes ◉ No

If Yes, identify each individual water-bearing stratum for which a waiver is requested and demonstrate by use of the PHC determination and other available baseline hydrologic and geologic information that the particular water-bearing stratum is not one which serves or may potentially serve as a significant aquifer or one which ensures the hydrologic balance within the cumulative impact area.

If No, provide letter(s) of permission to monitor domestic water supplies proposed as Monitoring sites. *Identify as Attachment J-9*

NOTE: The ground water and surface water monitoring plans are to be included in Section U of this application.

J-10: Surface and Ground Water Baseline Monitoring Site Laboratory Data

J-10. Provide copies of original laboratory data sheets for the surface water and ground water baseline monitoring site. *Identify as Attachment J-10*

See Attachments J-3B and J-4B

J-11: Hydrologic Reclamation Plan

J-11.

Provide a hydrologic reclamation plan in the form of maps and/or narrative which describes the steps to be taken to minimize disturbances to the hydrologic balance within the permit and adjacent areas; to prevent material damage outside the permit area; to met applicable federal and state water quality laws and regulations; and to protect the rights of present water users. *Identify as Attachment J-11*

The plan shall include:

A. Preventive and remedial measures to avoid acid or toxic mine drainage;

B. Measures to assure the protection of the quality and quantity of surface and ground water systems;

C. Measure to be taken to prevent, to the extent possible, contributions of suspended solids;

D. Measure to control drainage and, if needed, a description of the water treatment facilities;

E. Measure to be taken to restore, enhance, protect, or replace the approximate premining recharge capacity (under operations do not need to respond to this subpart);

F. Measure to be taken to prevent, control, or mitigate the adverse impacts of gravity, seepage, or pump discharges from underground mines and/or augering, if applicable; and

G. Restore, protect or replace the water supply of present water users in accordance with section 24 of the Act.

H. Preventive and remedial measures to prevent any other potential adverse hydrologic impacts identified in the PHC.

See Attachment J-11

Section K: NPDES Information

K-1. A National Pollutant Discharge Elimination System (Article 11/WVNPDES) application (NPD) or modification to an existing NPDES Permit (NPM) must be created as a seperate Electronic Applicaton.

☑ Acknowledged

Section L: Variance / Waivers

L.1. In the following table, identify by checking all variances and waivers contained in this application for which the applicant is requesting approval. Only those variances and waivers will be considered.

Action	Variance/Waiver Requested
New	Post mining land use change
New	Within 300 feet of an occupied dwelling
New	Within 100 feet of a stream
New	Stream Relocation
New	In-stream drainage control (perennial only)

M-1: Anticipated Coal Production Information

M-1. Provide the anticipated coal production for this proposed operation:

	Annual Production			Permit Life Production	
Auger:	0	(Tons)	Auger:	0	(Tons)
Highwall Miner:	0	(Tons)	Highwall Miner:	0	(Tons)
Surface:	0	(Tons)	Surface:	0	(Tons)
Underground:	0	(Tons)	Underground:	0	(Tons)
Total Annual:	0	(Tons)	Total Life:	0	(Tons)

M-2: Operation Types and Methods Information

M-2. Indicate the types and methods of operation:

- ☐ Surface
  - ☐ Area Mine
  - ☐ Mountaintop
  - ☐ Contour
  - ☐ Steep Slope (<20◆)
  - ☐ Steep Slope (>20◆)
  - ☐ Auger
  - ☐ Highwall Miner
- ☐ Underground
  - ☐ Longwall
  - ☐ Room and Pillar<80%
  - ☐ Room and Pillar>80%
- ☑ Other
  - ☑ Preparation Plant
  - ☐ Refuse Disposal
  - ☐ Haulroad
  - ☑ Impoundments(*Dams*)
  - ☐ Loadout
  - ☐ Other

If type and method of operations are both 'other', describe below:

M-3: Major Equipment Types Information

M-3. Indicate the major types of equipment that will be used:

- ☐ Draglines Cubic Yards:
- ☐ Hydraulic Excavators
- ☐ Shovels
- ☑ Backhoes
- ☑ Dozers
- ☑ Trucks
- ☐ Drills
- ☑ Loaders
- ☐ Pans
- ☐ Other Specify:

M-4: Constructed/Utilized Facilities Information

M-4. Indicate the facilities that will be constructed and/or utilized and indicate location of facilities on the PROPOSAL MAP.

A. Drainage Structures

- [x] Impoundments
  - [x] Dugout
  - [x] Embankment
- [ ] Sediment Channels
- [ ] Diversions
  - [ ] Permanent
  - [ ] Temporary
  - [ ] Stream

B. Excess Spoil Disposal

- [ ] Valley Fill
- [ ] Durable Rock Fill
- [x] Side Hill Fill
- [x] Existing Bench Fill
- [ ] Underground Mine Works
- [ ] N/A

C. Transportation

- [x] Haulageways
  - [x] Primary Road
  - [ ] Infrequently Used Access Road
- [ ] Chutes for Coal Transport
- [ ] Gravity Transport
- [x] Surface Conveyor
- [ ] N/A

D. Coal And Non-Coal Disposal

- [ ] Coal Refuse Disposal
- [ ] Slurry Impoundment
- [ ] Coal Stockpile Acres:
- [ ] Other (*specify*) :
- [ ] Coal Waste Disposal
- [ ] Non-Coal Waste Disposal
- [x] N/A

E. Other Facilities

- [x] Coal Preparation Tons Per Hour: 1400
- [ ] Underground Mine Entries
- [ ] Ventilation Shaft/Slope
- [ ] De-Gasification Wells
- [ ] Supply Yards
- [ ] Maintenance Shop
- [ ] Loading
- [ ] Bathhouse
- [ ] Substations and Power Poles/Lines
- [ ] Pumping and Water Treatment
- [ ] Silo Capacity in Tons:
- [ ] N/A

N-1: Estimated Timetable for Each Operation Phase

N-1. A. Indicate below the estimated timetable by month and year for each phase of the operation.

Phase	Mine Start (MM/YYYY)	Mine End (MM/YYYY)	Mine Acres	Reclaim Start (MM/YYYY)	Reclaim End (MM/YYYY)	Reclaim Acres	Unreclaimed Acres
1	09/2014	09/2015	136.52	NA	NA	0	136.52
2	12/2014	12/2016	29.75	NA	NA	0	29.75
3	09/2014	06/2017	48.73	NA	NA	0	48.73
4	10/2016	07/2017	0	NA	NA	0	0
5	09/2017	09/2037	0	NA	NA	0	0
6	09/2037	09/2039	0	09/2037	09/2039	215	215

B. Provide a detailed narrative to describe the major mining and reclamation activities of each phase of the Proposed operation. The narrative shall also address the following: *Identify as Attachment N-1.*

- Consideration which was given to maximize the utilization and conservation of the solid fuel resource being recovered so that re-affecting the land in the future will be minimized;
- Appropriate steps which will be taken to comply with applicable air and water quality laws and regulations and applicable health and safety standards;
- Fugitive dust control plan to be employed during site preparation, mining and reclamation. When required, provide an air quality monitoring program and locate monitoring station(s) on proposal map;
- How topsoiling materials will be removed, stored, stabilized, protected, and redistributed;
- Include Phase Map(s) drawn to scale which indicates the sequence for each phase.

See Attachment N-1B

N-2: Additional Mining Permits for Connected Operation(s)

N-2. Are other operations anticipated in connection with this proposed operation which will require additional surface coal mining permits? (●) Yes ( ) No

If Yes, Identify the lands subject to surface mining and the size, sequence and time of the operations. *Identify as Attachment N-2.*

A coal refuse impoundment and deep mine are proposed adjacent to the facilities proposed in this application. They are separate SMAs but will be in the review process concurrently with this application.

N-3: Surface Mining/Augering Within Underground Mine Boundary Information

N-3. Is surface mining and/or augering to occur within 500 feet of an underground mine?

( ) Yes (●) No

If Yes, Complete the following:

A. Indicate the status of the underground mine:

( ) Abandoned ( ) Active ( ) Temporarily Inactive ( ) Explain Below

B. Provide the following information. *Identify as Attachment N-3*

- Office of Miner's Health, Safety and Training approval and subsequent MSHA Approval;
- Approval of the underground operator and/or owner; and
- A description of impact of this proposed operation upon underground mining.

N-4: Temporary Storage and Final Disposal of Waste Information

N-4. Provide a description of the measures to be used for the temporary storage and final disposal of waste such as grease, lubricants, paints, flammable liquids, garbage, abandoned machinery, timber, brush, treatment chemicals (flocculents, pH adjusters, coal processing, etc.), and other combustibles generated during the mining activities. *Identify as Attachment N-4*

Waste generated by this operation, including grease, lubricants, paints, flammable liquids, garbage, abandoned machinery, mine timbers, timber brush, treatment chemicals, or other combustible materials, will not be buried or permanently disposed of on site. Oil products and by-products shall be stored in watertight containers until they can be picked up by an approved waste management company for disposal off site. Merchantable timber may be sold. Brush that is cleared from the site shall be burned in accordance with local laws and regulations.

Note: Identify all temporary and permanent storage and/or disposal sites on the PROPOSAL MAP or SITE PLAN MAP

N-5: Underground Mining Boundary Information

N-5. Has underground mining occurred within the boundaries of the proposed permit area?

(●) Yes ( ) No

If Yes, provide a description of the potential effects subsidence may have on structures such as dams, coal waste disposal areas, fills, and other such structures. *Identify as Attachment N-5*

Mining in the vicinity of the freshwater impoundment is addressed in the impoundment design contained in this application. No coal waste areas are included in this application.

O-1: Surface Configuration Cross Section Depiction

O-1. Provide cross-sections depicting the surface configuration prior to mining, during mining, and following reclamation. Cross-sections shall identify the following:

A. All materials requiring special handling;
B. Coal seams to be mined;
C. Topsoiling material; and
D. Permit Boundary.

Identify as Attachment O-1.

See Drawing Nos. B12-608-E7, B12-608-E10 and B12-608-E11 contained in Section Q-1

O-2: Spoil Information Calculations (Per Area)

Provide calculations for spoil generation, storage, backfilling and excess disposal.

Final AOC Guidance Document Policy (2000) AOC Plus
AOC Excess Spoil Guidelines (1999)
Determination of Mining

Mining Phase	Volume Generated (CU YD)	Swell Factor	Total Volume (CU YD)
1	3061658	.2	3673989.6

Reclamation Area	Reclamation Volume (CU YD)	Disposal Area	Disposal Volume (CU YD)
Fresh Water Impoundment Embankment	322394	Excess Spoil Disposal Area No. 1	1461410
Slope Reclamation	93512	Excess Spoil Disposal Area No. 2	1047694
		Topsoil Stockpile Area	215007
		Prep Plant Pad	431929

O-3: Backfilling and Regrading Requirements Compliance Information

O-3. Provide a description of how the operation will comply with backfilling and regrading requirements.

Identify as Attachment O-3.

GENERAL BACKFILLING AND GRADING PLAN

Final reclamation of the site will involve the removal the Freshwater Impoundment Dam, all structures at the plant site and backfilling the site to its approximate original contour. The material removed from the dam will be evenly spread over the borrow area. Topsoil from the temporary topsoil area will be placed on the material and seeded. No toxic and/or acid producing materials will be used for the backfilling operation. The post mining configuration will conform to a slope necessary to achieve the required minimum long-term static safety factor of 1.3. Refer to the enclosed cross-sections.

Revegetation will be kept current by establishing a permanent vegetative cover on regraded areas by the end of the second growing season. Operable regrading equipment will be kept on the permit area or adjacent permits until satisfactory completion of grading unless otherwise approved by the Director.
The operator shall establish on all regraded areas and all other disturbed areas a diverse, effective and permanent vegetative cover of the seasonal variety native to the area, or introduced species that are compatible with the approved postmining land use. This established vegetative cover shall be capable of stabilizing the soil from erosion, regeneration and plant succession. At a minimum, a temporary or permanent vegetative cover shall be established by the end of the first growing season and a permanent vegetative cover shall be established by the end of the second growing season.

If rills and gullies form that disrupt the post-mining landuse, they will be repaired. Temporary vegetative cover will be rapidly established around ponds, stockpiles, etc., where erosion is likely to occur.

TIME SCHEDULE FOR REGRADING AND BACKFILLING

Regrading and backfilling will be completed as contemporaneously as practicable with mining operations and as reflected on the approved mining and reclamation plan. Provided, however, that reclamation activities shall be initiated within thirty (30) days, and final backfilling and regrading shall be initiated within one hundred eighty (180) days of completion of underground operations. Should site conditions or weather make adherence to these guidelines impractical, the period of time required to be current may be reasonably extended by the director.

COMPLIANCE WITH BACKFILLING & GRADING TIME LIMITS

O-4: Delay of Contemporaneous Reclamation Variance Request

O-4. Is a variance for delay of contemporaneous reclamation requested?

○ Yes ◉ No

If Yes, provide the following information.
NOTE: If Yes and approved by DEP, bond rate is $5,000 per acre.

A. From which standard(s) is variance sought? (i.e., acreage, time and/or distance limits)

B. For each standard from which a variance is sought, state a specific alternative limit of the same type.

C. A narrative statement supported by documentation and sound scientific and/or engineering data that describes and demonstrates on the basis of site-specific conditions that compliance with the standard(s) is technologically and economically infeasible.

D. A sequential plan showing all phases of mining and reclamation, including specific time frames for completing each phase. The plan must describe at what point reclamation operations will commence and how such operations will advance in relation to mining operations throughout all proposed operations.

E. Describe any environmental impacts that may result from the delay in reclamation;

F. Identify on the PHASE MAP the specific surface areas for which a variance is requested

Identify as Attachment O-4.

O-5: Approximate Original Contour (AOC) Variance Request

O-5. Is a variance from approximate original contour (AOC) being requested for:

A. Remined Areas ○ Yes ◉ No

If Yes, provide the following information:

- A demonstration that the volume of reasonably available spoil is insufficient to completely backfill the reaffected or enlarged highwall;
- A demonstration that any highwall remnant left after mining will be stable and not pose a hazard to the public safety or the environment.

Identify as Attachment O-5 - Remined Areas.
NOTE: If Yes, attachment is required.

B. Steep Slope Areas ○ Yes ◉ No

If Yes, provide the following information:

- Alternate postmining land use request (Complete F-4 of this application);
- The proposed postmining land use of the affected land is limited to industrial, commercial forestry, cropland, residential or public (facility) use;
- All highwalls will be completely backfilled in a manner that results in a static safety factor of 1.3;
- Only spoil not necessary to achieve the postming land use may be removed from the mine bench;
- The watershed of the permitted and adjacent areas will be improved by reducing pollutants, environmental impacts or flood hazards; provided that, the watershed will be deemed improved only if:
    - The amount of total suspended solids or other pollutants discharged to ground or surface water from the permit area will be reduced, so as to improve the public or private uses or the ecology of such water, or flood hazards within the watershed containing the permit area will be lessened by reduction of the peak flow discharge from precipitation events or thaws; and
    - The total volume of flow from the proposed permit area, during every season of the year, will not vary in a way that adversely affects the ecology of any surface water or any existing or planned use of surface or ground water;
- Appropriate federal, state, and local government agencies were provided an opportunity to comment on the proposed postmining land use and deemed it to be an equal or better economic or public use;
- The plan is designed and certified by a registered professional engineer to assure stability, drainage, and configuration necessary for the intended use of the site;
- The surface landowner requested in writing that a variance be granted to achieve the approved alternative postmining land use;
- The alternative postmining land use requirements are met;
- All other applicable requirements of the Act and regulations, except for those relating to AOC, are met.

Identify as Attachment O-5 - Steep Slope Areas.
NOTE: If Yes, attachment is required.

C. Mountaintop Removal Areas ○ Yes ◉ No

If Yes, provide the following information:

- Alternate postmining land use request (Complete F-4 of this application);
- The proposed postmining land use of the affected land is limited to industrial, commercial forestry, cropland, residential or public (facility) use;
- The proposed use constitutes an equal or better use compared with the premining use;
- The proposed use will be compatible with adjacent land uses and existing state and local land use plans;
- County commissions and other state and federal agencies were provided an opportunity to review and comment on the proposed land use;
- The application contains a specific plan and assurances that the proposed postmining land use will be:
    - Compatible with adjacent land uses;
    - Practicable with respect to financing and completing the proposed use;
    - Supported by commitments from public agencies where appropriate;
    - Planned pursuant to a schedule attached to the reclamation plan so as to integrate the mining operation and reclamation with the postmining land use;
    - Designed by an approved person to assure the stability, drainage, and configuration necessary for the intended use of the site; and
    - Obtainable according to data regarding expected need and market.
    - All other requirements of the Act will be met.

Identify as Attachment O-5 - Mountaintop Removal Areas.
NOTE: If Yes, attachment is required.

D. Identify on the PROPOSAL MAP the specific surface areas for which a variance is requested.

O-6: Backfill Benches Minimum 1.3 Static Safety Factor Information

O-6. Provide a description of techniques to be utilized, including stability analyses to demonstrate that the backfilled benches will meet a minimum static safety factor of 1.3.
Identify as Attachment O-6.

Final reclamation of the site will involve backfilling the permit area to approximate original contour which included backfilling benches in the railroad loop area.

The backfill will be composed of a mixture of rock and soil but will be predominantly rock blasted form the site during construction. The angle of lateral friction for the size and type of rock encountered in this area should, at a minimum, be 35 degrees.

O-7: Seal and Management of Mine Openings Information

O-7. Provide a description of the measures to be used to seal or manage mine openings, exploration holes, auger holes, boreholes, wells encountered and other openings within the proposed permit areas. Include design specifications for ensuring stability under anticipated hydraulic heads for each permanent entry seal and downslope barrier. Include drawings, etc. required to adequately support the description of the proposed measures.
Identify as Attachment O-7.

There are no known unsealed mine openings, exploration holes, auger holes, boreholes or wells. Drawing No. B12-608-A7 is a typical seal detail for boreholes, drill holes/wells. Typical seal details for mine openings and auger holes are shown on Drawing Nos. B12-608-A7 and B12-608-A15.

O-8: Acid/Toxic Strata Burying, Blending, Segregating and Treating Plan

O-8. Provide a plan for burying, blending, segregating, and/or treating acid/toxic strata to avoid adversely affecting water quality and revegetation. Include drawings, etc. required to adequately support the plan.
Identify as Attachment O-8.

See Attachment O-8 and Drawing No. B12-608-A13 entitled "Typical Placement Detail For Acid Toxic and/or Elevated Selenium Material".

O-9: Planting Plan

O-9. Provide a planting plan which includes the following:

A. A prediction of the minesoil character based on overburden analysis, soil analysis, and other available information;

B. Proposed treatment to neutralize acidity;

C. Method of mechanical seed bed preparation;

D. Application rates and analysis of fertilization;

E. Application rates and types of mulch;

F. Application rates and species of perennial vegetation including herbaceous and woody plants;

G. Areas to be planted or seeded to trees and shrubs;

H. A maintenance schedule and procedures; and

I. A plan for temporary vegetation cover to include the following:
- Species
- Seeding rate; and
- Timing.

Identify as Attachment O-9.

See Attachment O-9

O-10: Postmining Land Uses

O-10. Postmining land uses indicated in F-4 of this application.

Primary	Secondary	Land Use Name
◉	○	Hayland or Pasture

P-1: Intermittent/Perennial Stream Disturbance Variance Request

P-1. Provide a map showing ephemeral/intermittent stream delineations in accordance with the WVDEP October 1999 Guidance Policy for all obvious channels within 100 feet of the proposal area.

Comment below or Attach P-1 Map.

See Drawing No. B12-608-M18 entitled "Stream Delineation Map"

Does this stream delineation indicate that a variance to disturb land within 100 feet of an intermittent or perennial stream is required?

◉ Yes ○ No

If Yes, provide a narrative to show that surface mining activities will not:

A. Adversely affect the water quantity of the stream;

B. Adversely affect the water quality of the stream;

C. Adversely affect other environmental resources of the stream (e.g. physical, biological, water uses, etc.);

D. Cause or contribute to violations of applicable state or federal water quality standards.

Describe below or Attach P-1 Narrative.

See Attachment P-1 and Request for Jurisdictional Determination

P-2: Perennial Stream Sediment Control Structure Variance Request

P-2. Is a variance requested to locate a sediment control structure in a perennial stream?

(●) Yes ( ) No

If Yes, provide justification and demonstrate that there is no other suitable location for such structure. *Identify as Attachment P-2.*

Pond B exists in an area currently considered non-jurisdictional open water area but will be considered perennial following mining activities.

P-3: Alteration/Relocation of Natural Stream Channel Variance Request

P-3. Is a variance requested for a stream channel diversion?

(●) Yes ( ) No

If Yes, indicate if the stream channel diversion is temporary or permanent and provide information required by the West Virginia Surface Mining and Reclamation Regulations for stream channel diversions. *Identify as Attachment P-3.*

See Attachment P-3

P-4: Use of Existing Drainage Structures

P-4. Are any existing drainage structures proposed to be used?

( ) Yes (●) No

If Yes, provide information in 'Existing Drainage Structures'.

P-5: Sediment Control Structures Capacity Information

P-5. Will all sediment control structures, including temporary sediment control, have the capacity to store 0.125 acre-ft. of sediment for each acre of disturbed area?

(●) Yes ( ) No

If No, provide a justification for alternate storage requirements which demonstrates that effluent limits will be met. *Identify as Attachment P-5.*

P-6: Constructed Drainage Structure Permanent Impoundment Information

P-6. Will any drainage structure be constructed in a manner which will create a permanent impoundment ?

( ) Yes (●) No

If Yes, identify permanent structures and provide documentation for the following:

A. Size and configuration will be adequate for its intended purpose;

B. Structure will not result in the diminution of the quality and quantity of water utilized by adjacent or surrounding landowners or agricultural, industrial, recreational, or domestic use, and

C. Structure will be suitable for the approved Postmining land use.

Identify as Attachment P-6.

P-7: Drainage/Sediment Control Structure(s) Information

P-7. Provide the following information for each drainage or sediment control structure:

A. Description, location map, plan view, profile, and cross sections of the structure;

B. Geotechnical investigation *(if applicable);*

C. Complete and accurate design and construction specifications;

D. Sequence or timetable for construction in relation to the disturbed area to be controlled;

E. Operation and maintenance procedures, including methods and location for disposal of the sediment and/or sludge;

F. Timetable and plans to remove each structure, including permanent structures;

G. Drainage control for all regraded areas;

H. Engineering techniques used in design of structures; and

I. Certification and periodic inspection procedures.

NOTE: Design plans, cross-sections, and profiles of engineered structures must be based on mapping or surveying data of adequate detail and accuracy. The registered professional engineer or licensed land surveyor certifying design of such facilities is responsible for insuring such adequacy.

Identify as Attachment P-7.

See Attachment P-7 and Drawing Nos. B12-608-E12, B12-608-E13, B12-608-E14, B12-608-E22, B12-608-E23 and B12-608-E30

P-8: Temporary Drainage Control Structure(s) Information

P-8. Provide the following information for each **temporary** drainage control structure:

A. Description, location map, plan view, profile, and cross sections of the structure;

B. Complete and accurate design and construction specifications;

C. Sequence or timetable for construction in relation to the disturbed area to be controlled;

D. Certification and periodic inspection procedures.

Identify as Attachment P-8.

See Attachment P-8 and Drawing Nos. Drawing No. B12-608-A18 and Drawing No. B12-608-A3

P-9: Component Drainage Table

P-9. Complete the following table:

Drainage Structure	Drainage Area(s)	Total Acres	Disturbed Acres	Required Volume Acre-Feet	Designed Volume Acre-Feet
Pond No. 5	P-5	28.1	28.1	3.51	3.90
Pond No. 6	P-6	6.7	6.7	0.84	1.0
Existing Pond B	P-B, SD-1, DD-4 & DD-5	148.1	73	9.13	9.44
Treatment Pond 1A/1B	TP-1	11.6	9.7	1.21	3.98
Treatment Pond 2A/2B	TP-2	4.3	2.0	0.25	3.98
Sediment Ditch No. 1	SD-1	26.9	19.9	2.49	2.50

P-10: Required Water Treatment Facilities Information

P-10. Will water treatment facilities, other than sediment control, be required?

○ Yes ◉ No

If Yes, include the following:

A. Design, plans and schedule for treatment during and after mining;

B. A description of the treatment unit and settling facilities;

C. Reagent;

D. Operation and maintenance procedures, including methods and location for disposal of sludge; and

E. Certification and periodic inspection procedures.

Identify as Attachment P-10.

P-11: WVDCA or MSHA Regulations for Water Retention Structures Information

P-11. Will any water retention structure be constructed in such a size or manner that it will be subject to the provisions of the West Virginia Dam Control Act and/or the MSHA regulations?

◉ Yes ○ No

If Yes, provide the design for each structure and include documentation required by the WV Dam Control Act and/or MSHA regulations. *Identify as Attachment P-11.*

See Attachment P-11 for the Application to Construct a Dam, being submitted simultaneously herewith.

Q-1: Primary Road(s) Plans and Specifications

Q-1. Provide plans and specification for each primary road to include the following;

A. Design drawings, plan view, map, construction specifications and cross sections;

B. Road width, gradient, and surfacing materials;

C. Fill embankment and road cut;

D. Culverts, bridges, and low-water crossing;

E. Drainage ditches and structures;

F. Operation and maintenance procedures;

G. Certification and periodic inspection procedures; and

H. Abandonment and/or removal plan.

Identify as Attachment Q-1.

See Attachment Q-1 and Drawing Nos. B12-608-A5, B12-608-M12, B12-608-E2, B12-608-E7, B12-608-E8, B12-608-E10, B12-608-E11 & B12-608-E25

Q-2: Infrequently Used Access Road Information

Q-2. Provide the following for each infrequently used access road:

A. Operation and maintenance procedures;

B. Drainage control measures; and

C. Abandonment and/or removal plan.

Identify as Attachment Q-2.

N/A

Q-3: Conveyor, Overland Conveyor and Rail System Plan(s) and Profile(s)

Q-3. Provide plans and profile of each conveyor, overland conveyor, or rail system.

Identify as Attachment Q-3.

See Drawing Nos. B12-608-E8, B12-608-E18 & B12-608-E19

Q-4: Existing Haulageways and Access Road Use Information

Q-4. Are any existing haulageways or access roads proposed to be used?

○ Yes ◉ No

If Yes, provide the following information:

A. Demonstrate that reconstruction to meet design requirements would result in greater environmental harm;

B. Demonstrate that drainage and sediment control requirements will be met;

C. Location;

D. As-built certifications, drawings, computation sheets and calculations; and

E. Plans of the structure which describe its current conditions.

Identify as Attachment Q-4.

R-1: Excess Spoil Disposal Structures?

R-1. Will excess spoil disposal structures be used?

(●) Yes ( ) No

If Yes, complete Excess Spoil Disposal Structures Information (items R-2 through R-5) for each structure..

R-2: Excess Spoil Disposal Structure Information

R-2. Complete the following for each structure and delineate each structure on the PROPOSAL and DRAINAGE MAPS:

Fill Name: Temporary Spoil Storage Area No. 1

Type Of Fill: ( ) Existing Bench ( ) Side Hill Fill

Valley Fill: ( ) Durable ( ) Conventional

Temporary: ( ) Durable (●) Conventional

Slope Natural Ground At Toe Of Fill:	10	Underdrain Type:	N/A
Volume Of Fill Cubic Yrds:	1373591	Drainage Area Pond toe:	26.9
Linear Feet Highwall Reclamation:	1000	Drainage Area Fill toe:	18
Length (Pond Toe to Fill Toe):	1300	Length (Fill Footprint):	830
Drainage Structure ID (*as identified on drainage map*):	Sed Ditch 1	Outlet No. (*as identified in NPDES application*):	004

Toe Of Fill :

Latitude: 39 ° 06 ' 05.99 " Longitude: 80 ° 09 ' 12.54 " Elevation: 1495

Top Of Fill : (*Where fill meets backstack at center line*)

Latitude: 39 ° 06 ' 07.51 " Longitude: 80 ° 09 ' 22.13 " Elevation: 1665

Geospatial Method: Digital/Manual Interpolation from a map Datum: NAD27

Ephemeral/Intermittent Stream Point:

Latitude: NA ° NA ' NA " Longitude: NA ° NA ' NA " Elevation: NA

Geospatial Method: Digital/Manual Interpolation from a map Datum: NAD27

Note :

Valley Fill and Temporary Fill	-	Complete all except " linear feet highwall reclamation"
Side Hill Fill and Existing Bench	-	Complete parts that are applicable to the fill.

R-3: Excess Spoil Disposal Structures Information Detail

R-3. Provide the following information for each excess spoil disposal structure.

A. Plan view, profiles and cross sections drawn to scale;

B. A detailed description of :

- Clearing, grubbing and topsoil handling;
- Construction of underdrains and source of underdrain rock;
- Type and source of materials to be placed in the fill;
- Construction sequence;
- Construction methods including transportation and compaction of materials;
- Surface protection and maintenance;
- Abandonment plan; and
- Certification and periodic inspection procedures.

C. Geotechnical investigation to include:

- Depth to bedrock and character of bedrock;
- If applicable, the number, location and depth of foundation borings or test pits, and the log of each. Indicate the location on the PROPOSAL MAP;
- A survey identifying all springs, seepage and ground water flow observed or anticipated during wet periods;
- A technical description of the rock materials to be utilized in durable rock fills, rock underdrains, rock chimney cores or rock drainage blanket, including durability tests;

D. Hydrologic and hydraulic designs to include:

- Calculations, specifications, and drawings for diversion ditches; and
- Calculations and engineering assumptions considered in the design of the underdrain.

E. Stability analyses addressing both static and dynamic loading conditions to include:

- Documentation and rationale used to determine cohesion (c), friction angle (□) and density of foundation material;
- Documentation and rationale used to determine cohesion (c), friction angle (□) and pore pressure ratio (phreatic surface) of fill material; and
- Results of stability analyses.

Identify as Attachment R-3.

See Attachment R-3

R-4: Rock-Toe Buttresses or Key-Way Cuts

R-4. Are rock-toe buttresses or key-way cuts included in any fill designs?

○ Yes ◉ No

If Yes, provide the following:

A. The number, location and depth of borings or test pits;

B. Engineering specifications used to design the rock-toe buttress or key-way cut;

C. Type of material and engineering properties of the material used for the key-way or rock-toe; and

D. Plan view, cross section and profiles.

Identify as Attachment R-4.

R-5: Durable Rock Fills

R-5. Are there any proposed durable rock fills?

○ Yes ◉ No

If Yes, provide calculations for each durable rock fill certified by a Registered Professional Engineer that at least 80% of the fill volume will be durable rock. *Identify as Attachment R-5.*

R-2: Excess Spoil Disposal Structure Information

R-2. Complete the following for each structure and delineate each structure on the PROPOSAL and DRAINAGE MAPS:

Fill Name: Temporary Spoil Storage Area No. 2

Type Of Fill: ○ Existing Bench ○ Side Hill Fill

Valley Fill: ○ Durable ○ Conventional

Temporary: ○ Durable ◉ Conventional

Slope Natural Ground At Toe Of Fill:	6	Underdrain Type:	N/A
Volume Of Fill Cubic Yrds:	925639	Drainage Area Pond toe:	148.1
Linear Feet Highwall Reclamation:	N/A	Drainage Area Fill toe:	22.8
Length (Pond Toe to Fill Toe):	-	Length (Fill Footprint):	800
Drainage Structure ID (*as identified on drainage map*):	Pond B	Outlet No. (*as identified in NPDES application*):	004

Toe Of Fill :

Latitude: 39 ◆ 06 ◆ 22.35 ◆ Longitude: 80 ◆ 08 ◆ 58.87 ◆ Elevation: 1520

Top Of Fill : (*Where fill meets backstack at center line*)

Latitude: 39 ◆ 06 ◆ 26.65 ◆ Longitude: 80 ◆ 09 ◆ 06.74 ◆ Elevation: 1678

Geospatial Method: Digital/Manual Interpolation from a map Datum: NAD27

Ephemeral/Intermittent Stream Point:

Latitude: 39 ◆ 06 ◆ 23.31 ◆ Longitude: 80 ◆ 09 ◆ 00.31 ◆ Elevation: 1520

Geospatial Method: Digital/Manual Interpolation from a map Datum: NAD27

Note :	Valley Fill and Temporary Fill	-	Complete all except " linear feet highwall reclamation"
	Side Hill Fill and Existing Bench	-	Complete parts that are applicable to the fill.

R-3: Excess Spoil Disposal Structures Information Detail

R-3. Provide the following information for each excess spoil disposal structure.

A. Plan view, profiles and cross sections drawn to scale;

B. A detailed description of :

- Clearing, grubbing and topsoil handling;
- Construction of underdrains and source of underdrain rock;
- Type and source of materials to be placed in the fill;
- Construction sequence;
- Construction methods including transportation and compaction of materials;
- Surface protection and maintenance;
- Abandonment plan; and
- Certification and periodic inspection procedures.

C. Geotechnical investigation to include:

- Depth to bedrock and character of bedrock;
- If applicable, the number, location and depth of foundation borings or test pits, and the log of each. Indicate the location on the PROPOSAL MAP;
- A survey identifying all springs, seepage and ground water flow observed or anticipated during wet periods;
- A technical description of the rock materials to be utilized in durable rock fills, rock underdrains, rock chimney cores or rock drainage blanket, including durability tests;

D. Hydrologic and hydraulic designs to include:

- Calculations, specifications, and drawings for diversion ditches; and
- Calculations and engineering assumptions considered in the design of the underdrain.

E. Stability analyses addressing both static and dynamic loading conditions to include:

- Documentation and rationale used to determine cohesion (c), friction angle (□) and density of foundation material;
- Documentation and rationale used to determine cohesion (c), friction angle (□) and pore pressure ratio (phreatic surface) of fill material; and
- Results of stability analyses.

Identify as Attachment R-3.

See Attachment R-3

R-4: Rock-Toe Buttresses or Key-Way Cuts

R-4. Are rock-toe buttresses or key-way cuts included in any fill designs?

○ Yes ◉ No

If Yes, provide the following:

A. The number, location and depth of borings or test pits;

B. Engineering specifications used to design the rock-toe buttress or key-way cut;

C. Type of material and engineering properties of the material used for the key-way or rock-toe; and

D. Plan view, cross section and profiles.

Identify as Attachment R-4.

R-5: Durable Rock Fills

R-5. Are there any proposed durable rock fills?

○ Yes ◉ No

If Yes, provide calculations for each durable rock fill certified by a Registered Professional Engineer that at least 80% of the fill volume will be durable rock. *Identify as Attachment R-5.*

S-1: Proposed Underground/Augering Operations?

Note: A Certificate of Approval for Mine Opening must be obtained from the Office of Miner's Health, Safety, and Training for underground mines.

S-1. Are underground or augering operations proposed?

○ Yes ◉ No

If Yes, provide the following and complete items S-2 through S-6:

A. Topographic Map of a scale 1"=1,000' (*Subsidence Survey Map*);

B. Mine Development Map; and

C. Supplemental Mine Maps.

T-1: Proposed Blasting

Is blasting proposed? ◉ Yes ○ No

If Yes, complete this entire section and attach a BLASTING MAP.

Once the application is approved, any changes to this map or plan must be approved by the Secretary.

T-2: Blasting Operations

Will blasting operations be conducted within 1,000 feet of any building used as a dwelling, public building, school, church, or community or institutional building?

◉ Yes ○ No

If "Yes", show a 1000 feet radius from from the structure(s) into the permit area, and complete the following:

A. Is a site specific blast design included? ○ Yes ◉ No

If "No", submit and obtain approval prior to blasting within 1000 feet of structure(s).

B. Will blasting operations be conducted within 300 feet of a protected structure?

○ Yes ◉ No

If "Yes", provide a waiver allowing blasting within 300 feet, signed by the owner and occupant (if applicable).

T-3: Blasting Near Underground Mine

Will blasting operations be conducted within 500 feet of an underground mine?

◉ Yes ○ No

If No, go to T-4. If Yes, complete the following:

A. Show underground workings on map.

B. Attach WV Office of Miner's Health, Safety and Training approval. *Identify as attachment T-3B.*

C. Are works Active? ○ Yes ◉ No

If Yes, provide MSHA approval, Underground Operator's Approval and Safety measures to protect underground miners and operations during blasting. *Identify as attachment T-3C*.

D. Is a Site-Specific Blast Design included to address protection of the underground mines and miners and environmental concerns?

○ Yes ◉ No

If "No", submit and obtain approval prior to blasting within 500 feet of underground mine.

T-4: Structure Owners and Occupants

A. Provide **names and complete addresses** for each owner **and** occupant, of protected structures or structures located within the pre-blast survey area as defined in WV Code (SCMRA) 22-3-13a(a)(1) and (2). *If the occupant is not the owner, list the name and address of **both** the owner and occupant.*

If **NONE**, check here ☐

B. Provide names and addresses of owners of all other manmade structures, located in the pre-blast area, not defined as protected structures as identified in 199CSR-1-2.2 (public utilities, underground mines, gas wells/lines, power lines, cemeteries, public roads, etc.), and not directly associated with a dwelling listed in "A".

If **NONE**, check here ☐

C. For an IBR, amendment or revision, include a copy of the most recently approved T-4A and B list then indicate by a new list the structures added by this application

If **N/A**, check here ☐ If **NONE**, check here ☐

Identify each and every structure shown on the Blasting Map.

Month and year list(s) complied (mm/yyyy): 11/2012

This date must be current to 1 year.

Structure Id:	-	Owner: ☑	Occupant: ☐
Name:	See Attachments T-4A and T-4B		
Street:	-		
City:	-		
Country:	United States of America	State:	West Virginia
Zip:	NA	Phone:	

T-5: Alternate Velocity or Airblast Limits

Are alternate peak particle velocity and/or airblast limits proposed for structures?

○ Yes ◉ No

If "Yes", provide as an attachment written permission from the owners of these structures.

T-6: Blasting Plan

General Blasting Plan

The following general blasting plan will be adhered to by the permittee. Any departures from this general plan must have approval of the Secretary prior to being implemented.

(If the permittee is proposing any departures from the general blasting plan, not already addressed in attachments T-1 through T-5, then identify below and provide attachment if applicable.)

No departures from the general blasting plan are proposed. The Applicant agrees to be subject to the Surface Coal Mining and Reclamation Act, Chapter 22, Article 3, Section 3A-5. At a minimum of 14 days prior to blasting, a site specific blast plan, prepared and signed by a certified blaster, shall be submitted to and approved by the Office of Explosives and Blasting.

A. For each shot, the blast record (log) will include information required by rule under 199CSR1-3.5 at a minimum. The approved blast record (log) form EB-37 will be used unless the Secretary approves an alternate blast log prior to use.

B. Prevent adverse effects with attention given to the geological and topographical conditions depicted in pre-mine core drilling and site-specific information of current drill operations in the blast area.

C. Consider weather effects such as wind speed and direction, temperature inversions, and cloud cover to minimize air blast and dust.

D. Will employ safety precautions in designing, loading, and detonating a blast and when handling, transporting, storing, and disposing of explosives.

E. Comply with limitations for ground vibration and air blasts (unless waived in item T-5) as prescribed by rule under 199CSR1-3.6c, h and i.

F. Prevent injury to persons and damage to public and private property outside the permit area and prevent changes in the course, channel or availability of ground or surface water outside the permit area.

G. At the blaster-in-charge discretion, traffic will be blocked when blasting in close proximity of public roads.

H. Comply with WV Code 22-3-22a (blasting restriction/site specific blast design) requirements addressed items of this section.

I. Comply with WV Code 22-3-13(b)(15) use of explosives and inventory.

J. Agree to be subjected to WV Code 22-3A-5 {Underground mining operations are not subject to this}.

K. Incorporate a blasting inspection and monitoring program, including specific provisions for monitoring ground vibrations and air blast if this operation is a surface coal extraction operation. The monitoring will occur on the calendar quarter at minimum. One blast of each type (binder, pre-split, production) on same occurrence (first, second, third...) will be maintained. The seismograph will be set up and maintained in accordance with ISEE standards and located at the nearest "protected" or "other" structure, whichever is closest to the blast. Full waveforms will be attached to the blast log.

L. Full wave forms will be attached to blast log within 24 hours if scaled distance is exceeded or any unusual circumstances occurs (fly rock, suspected air blast, etc.).

M. The legal advertisement (use form EB-38) will include all required information and will be submitted to OEB prior to blasting. The type of warning device must be specifically identified. Any changes to the type of audible warning signals must be re-advertised and re-notification to residents.

N. The letter of notification of the blasting schedule will be sent certified mail to local governments, public utilities, owners of other man-made structures and each resident within the pre-blast area and persons who regularly work in the pre-blast area to advise of the blasting schedule, warning signal and access control. The warning signal to be used must be consistently listed in form EB-38 and this notification.

O. Comply with WV Code 22-3-13a pre-blast survey requirements and use forms EB-39, EB-39A, EB-39B, EB-39C and EB-39D.

P. Any changes to the blast plan must be submitted to and approved by OEB.

U-1: Surface Water Monitoring Plan

U-1. Provide a surface water monitoring plan to include the following:

A. Monitoring site locations;

B. Quality and quantity parameters; and

C. Sampling and reporting frequency.

U-1: Surface Water Analysis

Sampling Station ID: PHC-2
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 40 ◆
Longitude: 80 ◆ 09 ◆ 39 ◆
Elevation: 1435
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-3
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 30 ◆
Longitude: 80 ◆ 09 ◆ 22 ◆
Elevation: 1435
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-4
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 30 ◆
Longitude: 80 ◆ 09 ◆ 19 ◆
Elevation: 1435
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-6
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ° 05 ' 17 "
Longitude: 80 ° 08 ' 54 "
Elevation: 1415
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(µmhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-7
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ° 04 ' 49 "
Longitude: 80 ° 08 ' 19 "
Elevation: 1395
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(µmhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-8
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ° 05 ' 14 "
Longitude: 80 ° 08 ' 07 "
Elevation: 1415
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(µmhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-9
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 06 ◆ 34 ◆
Longitude: 80 ◆ 07 ◆ 15 ◆
Elevation: 1415
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-10
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 07 ◆ 14 ◆
Longitude: 80 ◆ 07 ◆ 45 ◆
Elevation: 1246
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-11
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 07 ◆ 14 ◆
Longitude: 80 ◆ 08 ◆ 29 ◆
Elevation: 1340
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-20
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 51 ◆
Longitude: 80 ◆ 10 ◆ 05 ◆
Elevation: 1435
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-21
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 51 ◆
Longitude: 80 ◆ 10 ◆ 03 ◆
Elevation: 1435
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-22
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 39 ◆
Longitude: 80 ◆ 09 ◆ 40 ◆
Elevation: 1435
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-23
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 25 ◆
Longitude: 80 ◆ 09 ◆ 17 ◆
Elevation: 1420
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-24
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 17 ◆
Longitude: 80 ◆ 08 ◆ 57 ◆
Elevation: 1415
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-26
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 04 ◆ 23 ◆
Longitude: 80 ◆ 07 ◆ 14 ◆
Elevation: 1360
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-27
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 04 ◆ 20 ◆
Longitude: 80 ◆ 07 ◆ 04 ◆
Elevation: 1360
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-28
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 04 ◆ 40 ◆
Longitude: 80 ◆ 07 ◆ 08 ◆
Elevation: 1355
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: TMP-29
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 05 ◆ 49 ◆
Longitude: 80 ◆ 04 ◆ 36 ◆
Elevation: 1350
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-30
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 07 ◆ 17 ◆
Longitude: 80 ◆ 08 ◆ 33 ◆
Elevation: 1340
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-31
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 07 ◆ 13 ◆
Longitude: 80 ◆ 05 ◆ 51 ◆
Elevation: 1200
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-32
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 07 ◆ 11 ◆
Longitude: 80 ◆ 05 ◆ 48 ◆
Elevation: 1200
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Mineral Acidity(ppm)
- [x] Total Manganese(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Flow(cfs/gpm)
- [x] Total Alkalinity(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Sulfates(ppm)
- [x] Total Hot Acidity(ppm)
- [x] Total Iron(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-1: Surface Water Analysis

Sampling Station ID: PHC-43
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 07 ◆ 16 ◆
Longitude: 80 ◆ 07 ◆ 56 ◆
Elevation: 1239
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Flow(cfs/gpm)
- [x] Total Hot Acidity(ppm)
- [x] Mineral Acidity(ppm)
- [x] Total Alkalinity(ppm)
- [x] Total Iron(ppm)
- [x] Total Manganese(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Sulfates(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-2: Ground Water Monitoring Plan

U-2. Provide a ground water monitoring plan to include the following, if applicable:

A. Monitoring site locations;

B. Quality and quantity parameters; and

C. Sampling and reporting frequency.

U-2: Ground Water Analysis

Sampling Station ID: GW-4 (Ward)
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 06 ◆ 01 ◆
Longitude: 80 ◆ 09 ◆ 31 ◆
Elevation: 1470
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Flow(cfs/gpm)
- [x] Total Hot Acidity(ppm)
- [x] Mineral Acidity(ppm)
- [x] Total Alkalinity(ppm)
- [x] Total Iron(ppm)
- [x] Total Manganese(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Sulfates(ppm)
- [x] Aluminum(ppm)

Additional Parameters
Parameter: Units:

U-2: Ground Water Analysis

Sampling Station ID: MD-25
Sample Frequency: Quarterly
Reporting Frequency: Quarterly
Latitude: 39 ◆ 06 ◆ 23 ◆
Longitude: 80 ◆ 08 ◆ 57 ◆
Elevation: 1520
Geospatial: Digital/Manual Interpolation from a map
Datum: NAD27

- [x] pH
- [x] Flow(cfs/gpm)
- [x] Total Hot Acidity(ppm)
- [x] Mineral Acidity(ppm)
- [x] Total Alkalinity(ppm)
- [x] Total Iron(ppm)
- [x] Total Manganese(ppm)
- [x] Total Suspended Solids(ppm)
- [x] Total Dissolved Solids(ppm)
- [x] Specific Conductance(◆mhos)
- [x] Sulfates(ppm)
- [x] Aluminum(ppm)

Additional Parameters			
Parameter:		Units:	

U-3: Surface Water Runoff Monitoring Plan

U-3. Provide a surface water runoff monitoring plan to include the following:

A. Monitoring site locations;

B. Quantity parameters; and

C. Sampling and reporting frequency.

V-1: Coal Processing Refuse Disposal?

V-1. Is coal processing refuse disposal proposed?

○ Yes ◉ No

If Yes, complete items V-2 through V-4. .

Section W: Underground Disposal Plan

W-1. Is underground disposal of sludge, coal refuse, or slurry proposed?

○ Yes ◉ No

If Yes, provide a description of the following:

A. Method of disposal to include the source of transport medium;

B. Percent of mine void to be filled *(include mine maps);*

C. Location of active workings to include plans, specifications, and methods of constructing underground retaining walls;

D. Potential areas of breakout;

E. Effects of subsidence;

F. Location of permanent monitoring wells or monitoring stations;

G. Gradient of mine from the backfill area;

H. Stratum underlying the mined coal;

I. Source and quality of material being disposed;

J. Treatment of discharged water;

K. Contingency plan to address blowouts; and

L. If applicable, MSHA Approval.

Identify as Attachment W-1.

Applicant's Certification of Application

Certification of Application

NOTE: If signer is other than President or Vice President, provide a current certified copy of Power of Attorney or Resolution of Board of Directors which grants signer the legal authority to represent the Applicant.

I, **Kevin J. Bealko** (*type name*), having been duly sworn, depose and attest that all the representation contained in this application (and in the Centralized Ownership and Control File, where applicable) are true and correct to the best of my knowledge and belief , including ownership and control and violation history, and that I am a principal officer *(President, Vice President)* of the Applicant and that this application has been executed by the persons required by law. I further acknowledge that any information provided or omitted herein for the purpose of defrauding or misleading the West Virginia Department of Environmental Protection may result in the institution of criminal or civil charges and/or other enforcement actions pursuant to applicable state laws.

State _____

County _____

Sworn and Subscribed to Before Me This

_____ **Day of** _____ **20** _____

_____

Notary Public

_____

My Commission Expires

(SEAL)

_____

Signature of Principal Officer (President/Vice-President)

President and Attorney-in-Fact

Official Title

Date

NOTE: After the applicant has been notified that the application is approved, but before the permit is issued, the applicant shall provide an update of the information in Part 1, OR indicate in writing that no change in this information has occurred.

Any and all certifications pertaining to this application can be viewed at the WVDEP Regional Office.

Certifications

The lab analysis, maps, cross sections and plans as required in this application shall be prepared by or under the direction of and certified by a qualified person approved by the Secretary of the Department of Environmental Protection. Indicate the applicable "Approved Person" below and complete this section. A separate certification page shall be completed for each individual.

(●) *Registered Professional Engineer* ( ) *Licensed Land Surveyor* ( ) *Laboratory*

I, *(typed name)* *Claudio E. Yon* do hereby certify to the best of my knowledge, information and belief, that the information contained in the certification list below, and the accompanying plans, specifications and reports have been prepared in accordance with accepted practice of engineering, are true, complete and accurate, and are in accordance with the West Virginia Surface Mining Control and Reclamation Act and the West Virginia Surface Mining Reclamation Regulations. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Section (Item No.)	Name of Document
A-Z	Surface Mine Application, associated narratives and drawings

Signature:		Professional Seal
Mailing Address:	Alliance Consulting, Inc.	
Street Address:	124 Philpott Lane	
City:	Beaver	
Country:	United States of America	
State:	West Virginia	
Zip:	25813	Date:

Any and all certifications pertaining to this application can be viewed at the WVDEP Regional Office.

Z1: Individual Article 3 / SMA Application Advertisement

INSTRUCTIONS	
This advertisement is for a single application for a Chapter 22, Article 3 permit.	Ad will be published once a week for four successive weeks with six full days between publication.
Initial Date of Publication:	Final Date of Publication:

ADVERTISEMENT

Notice is hereby given that NORTH CENTRAL RESOURCES, LLC

200 CHAPEL BROOK DR, BRIDGEPORT, WV 26330

(Business Street Address)

has submitted an application to the Department of Environmental Protection (DEP), Division of Mining and Reclamation (DMR) located at 47 School Street, Suite 301, Philippi, WV 26416-1600 for an Article 3 permit for the surface disturbance of approximately 215.00 acres in order to

construct and operate a preparation plant, freshwater impoundment and ancillary facilities. A post-mining land use change from (1) Previously Mined and Not Reclaimed, (2) Forestland (3) Hayland/Pasture and (4) Rangeland to (1) Hayland/Pasture is also being requested.

(Surface/Tipple/Preparation Plant/Haulroad/Shop Area /Face up Deep Mine)

in the Kittanning - Lwr---Allegheny seam of coal. The proposed operation is discharging into Unnamed tributary of/and Wash Run of Big Run of the Buckhannon River of the Tygart Valley River and unnamed tributary of/and Indian Fork of Elk Creek of West Fork River (Receiving Stream) of MONONGAHELA RV (Major Subbasin) and is located 1.8 (Distance) miles, northwest (Direction) of Volga (Nearest Post Office) in Union District of Barbour County, Longitude 80 08 57 Latitude 39 06 06

Surface of the area associated herewith and the mineral associated herewith is owned by:

Surface or Mineral	Name and Address
Surface and Mineral	North Central Resources, LLC, 200 Chapel Brook Drive, Bridgeport, WV 26330

Surface of the area associated within 100 feet of the permit area herewith and the mineral associated herewith is owned by:

Surface or Mineral	Name and Address
Surface	CSX Transportation Inc. A & O Railroad, 1500 Kentucky Avenue, Paducah, KY 42003
Surface	Mr. & Mrs. Ernest L. Payne, Rt. 1 Box 22, Volga, WV 26238
Surface	United Mine Workers #4172, 149 West View Acres Road, Buckhannon, WV 26201
Surface	Mr. & Mrs. Denis C. Whitaker, RR 1 Box 19A, Volga, WV 26238
Surface	Mr. & Mrs. John S. Winslow and Mr. Charles D. Winslow, RR 1 Box 19B, Volga, WV 26238
Surface	Mr. & Mrs. John R. Ward, III, RR 1 Box 29D, Volga, WV 26238
Mineral	North Central Resources, LLC, 200 Chapel Brook Drive, Bridgeport, WV 26330

Written comments and/or requests for an informal conference of the surface mining application shall identify the applicant and application number and will be received by the Permit Supervisor at the DEP address above until _____ , or thirty (30) days from date of final publication. A copy of the application will be available for review until _____ ,or thirty (30) days from date of final publication in the DEP Regional Office located at the address above AND in the Barbour County Clerk's Office during normal business hours.

DEP Telephone Number Permit Number

*These items are to be completed only for operations involving mineral removal.

Include location map in accordance with regulations.

Z2: Blasting Advertisement

PUBLIC NOTICE OF BLASTING OPERATIONS
ADVERTISEMENT

Notice is hereby given that NORTH CENTRAL RESOURCES, LLC, , 200 CHAPEL BROOK DR, BRIDGEPORT, WV 26330, situated in Union District of Barbour County, approximately 1.8 miles northwest (Direction) of Volga (Nearest Post Office) will be conducting blasting activities in accordance with all State and Federal Laws and as approved by the Department of Environmental Protection.

Blasting activities will occur Monday through Saturday from sunrise to sunset. No blasting shall be conducted on Sunday. Blasting is to commence on NA and continue through NA.

Ten minutes prior to and immediately after each blast, all access to the specific area will be safeguarded from unauthorized entry. The warning signal prior to each blast shall be from a(n) airhorn (air horn, siren or other specific device) audible to at least one half (1/2) mile from the blast. The warning will be given three (3) minutes prior to detonation and will consist of three (3) short blasts of five (5) seconds duration with five (5) seconds between each blast. The all clear signal shall be one long blast from a(n) airhorn (air horn, siren or other specific device) of twenty (20) seconds duration.

Blasting shall be conducted in such a way so as to prevent adverse impacts to the public or the environment. Blasting activities will not be conducted at times other than those announced in the blasting schedule except in the event of an emergency situation where rain, lightening, or other atmospheric conditions, or operator or public safety requires unscheduled detonations.

eMaps: Maps and eMap Data Section

This section is to attach, where appropriate, the proposal, drainage, and subsidence control maps along with the eMap. Click the 'Attachments' button at the top right.

The eMap file is used by WVDEP to update the GIS database. It will prevent errors in representing the applicant's permit features that arise from manually georeferencing and digitizing scanned images of permit maps. It also will reduce misrepresentation due to data being out of date.

1. This file should contain a subset of features found on proposal/drainage and subsidence control plan maps.
2. A file is only required for actions that also require a proposal/drainage map, renewal/progress map, final map, or subsidence control plan map.
3. Applicants should use the available CAD templates for DWG files, or follow instructions for creating shapefiles or a personal geodatabase.

The eMap file for this application should conform to the WVDEP eMap standards as defined at the following location:

eMap Standards Requirements

WVDEP eMap AutoCAD Templates are available at the following locations:

Template files for North Zone
Template files for South Zone

A free dwg file viewer can be downloaded from the following location: (Click the "Download Now" button)

Free Autodesk DWG viewer

For any questions about the eMap file or standards, please contact:

Nick Schaer (Email: Nick.A.Schaer@wv.gov (mailto:Nick.A.Schaer@wv.gov) Phone: 304-926-0499 ext 1510)
Mike Shank (Email: Michael.C.Shank@wv.gov (mailto:Michael.C.Shank@wv.gov) Phone: 304-926-0499 ext 1620)