MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT

DOCKET #13-22

COMPANY: Ritchie Trucking & Excavating, Inc.

LOCATION: Sandbank Rd., Frostburg, MD 21532

APPLICATION: One (1) 150 ton per hour crusher and screener powered by one (1) 275 horsepower diesel engine and one (1) 110 horsepower diesel engine to replace existing crushing and screening equipment.

ITEM	DESCRIPTION
1	Notice of Application and Opportunity to Request an Informational Meeting
2	Permit to Construct Application Forms
3	Zoning Approval from Allegany County

DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION

NOTICE OF APPLICATION AND
OPPORTUNITY TO REQUEST AN INFORMATIONAL MEETING

The Maryland Department of the Environment, Air and Radiation Administration (ARA) received a permit-to-construct application from Ritchie Trucking & Excavating, Inc. on June 17, 2022 for the installation of one (1) 150 ton per hour crusher and screener powered by one (1) 275 horsepower diesel engine and one (1) 110 horsepower diesel engine to replace existing crushing and screening equipment. The proposed installation will be located at Sandbank Rd., Frostburg, MD 21532.

Copies of the application and other supporting documents are available for public inspection. Ask for Docket #13-22 at the following link.

https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx

Pursuant to the Environment Article, Section 1-603, Annotated Code of Maryland, the Department will hold an informational meeting to discuss the application and the permit review process if the Department receives a written request for a meeting within 10 working days from the date of the second publication of this notice. All requests for an informational meeting should be directed to the attention of Ms. Shannon Heafey, Air Quality Permits Program, Air and Radiation Administration, 1800 Washington Boulevard, Baltimore, Maryland 21230.

Further information may be obtained by calling Ms. Shannon Heafey at (410) 537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration

Musser Engineering
an EARTHRES company
7785 Lincoln Highway, Central City, PA 15926-7500
Engineers • Surveyors • Geologists
814-754-8477
Fax 814-754-5599
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May 2, 2022

Maryland Department of the Environment
Air and Radiation Administration
1800 Washington Blvd.
Baltimore, MD 21230
Attn: Jonathan Crooks, Regulatory and Compliance Engineer

RE: Ritchie Trucking & Excavating, Inc.
Borden Tract Quarry, Facility No. 001-00308
Air Quality Permit – Equipment Update

Dear Mr. Crooks,

Enclosed please find an Air Quality Permit to Construct application for the above referenced site. Ritchie Trucking & Excavating, Inc., is updating equipment at their Borden Tract Sandstone Quarry. The facility is a sandstone mining and processing operation located off of Route 40 along Sandbank Road west of Frostburg in Allegany County. This application is being made to amend the existing Air Quality Permit (001-00308) for the replacement of one Primary Jaw Crusher and one Double-Deck Screen equipped with a wet suppression system. We are awaiting a response from the Allegany County Planning Commission regarding land-use and zoning approval at the project site for the new equipment. Attached please find a copy of the notice mailed to their office along with proof of receipt. Their response will be forwarded to your office when it is received.

If you have any questions or concerns, please call me at the number listed above.

Sincerely,

Nita Williams
Engineering Technician

Enclosures

Cc: Ritchie Trucking & Excavating, Inc.
File

AIR QUALITY PERMIT TO CONSTRUCT APPLICATION CHECKLIST

OWNER OF EQUIPMENT/PROCESS	
COMPANY NAME:	Ritchie Trucking & Excavating, Inc.
COMPANY ADDRESS:	19709 Winner View Terrace, Frostburg MD 21532
LOCATION OF EQUIPMENT/PROCESS	
PREMISES NAME:	Borden Tract #1
PREMISES ADDRESS:	Sand Bank Road, Frostburg MD 21532
CONTACT INFORMATION FOR THIS PERMIT APPLICATION	
CONTACT NAME:	Jody Ritchie
JOB TITLE:	President
PHONE NUMBER:	301-689-0488
EMAIL ADDRESS:	fritchie@ritchietrucking.net
DESCRIPTION OF EQUIPMENT OR PROCESS	
Sandstone crushing and screening plant	

Application is hereby made to the Department of the Environment for a Permit to Construct for the following equipment or process as required by the State of Maryland Air Quality Regulation, COMAR 26.11.02.09.

Check each item that you have submitted as part of your application package.

☒ Application package cover letter describing the proposed project

☒ Complete application forms (Note the number of forms included or NA if not applicable.)

No. 1 Form 5
No. 1 Form 5T
No. 2 Form 5EP
No. _____ Form 6
No. _____ Form 10
No. _____ Form 11
No. _____ Form 41
No. _____ Form 42
No. 2 Form 44

☒ Vendor/manufacturer specifications/guarantees

☒ Evidence of Workman's Compensation Insurance

☒ Process flow diagrams with emission points

☒ Site plan including the location of the proposed source and property boundary

☒ Material balance data and all emissions calculations

☐ Material Safety Data Sheets (MSDS) or equivalent information for materials processed and manufactured.

☐ Certificate of Public Convenience and Necessity (CPCN) waiver documentation from the Public Service Commission (1)

☒ Documentation that the proposed installation complies with local zoning and land use requirements (2)

(1) Required for emergency and non-emergency generators installed on or after October 1, 2001 and rated at 2001 kW or more.

(2) Required for applications subject to Expanded Public Participation Requirements.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
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1800 Washington Blvd ▪ Baltimore, Maryland 21230
(410) 537-3230 ▪ 1-800-633-6101 ▪ www.mde.state.md.us

APPLICATION FOR FUEL BURNING EQUIPMENT

Information Regarding Public Outreach

For Air Quality Permit to Construct applications subject to public review, applicants should consider the following information in the initial stages of preparing a permit application.

If you are not sure at the time you are applying for a permit whether public review of your application is required or for information on steps you can take to engage the surrounding community where your planned project will be located, please contact the Air Quality Permits Program at 410-537-3225 and seek their advice.

Communicating and engaging the local community as early as possible in your planning and development process is an important aspect of your project and should be considered a priority. Environmental Justice or "EJ" is a movement to inform, involve, and engage communities impacted by potential and planned environmental projects by affording citizens opportunities to learn about projects and discuss any concerns regarding impacts.

Although some permit applications are subject to a formal public review process prescribed by statute, the Department strongly encourages you to engage neighboring communities separate from and well ahead of the formal permitting process. Sharing your plans by way of community meetings, informational outreach at local gatherings or through local faith-based organizations can initiate a rewarding and productive dialogue that will reduce anxiety and establish a permanent link with your neighbors in the community.

All parties benefit when there is good communication. The Department can assist applicants in developing an outreach plan that fits the needs of both the company and the public.

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Air and Radiation Management Administration ▪ Air Quality Permits Program

APPLICATION FOR PROCESSING/MANUFACTURING EQUIPMENT

Permit to Construct ☒ Registration Update ☐ Initial Registration ☐

1A. Owner of Equipment/Company Name

Ritchie Trucking and Excavating, Inc.

Mailing Address

19709 Winner View Terrace
Street Address

Frostburg | MD | 21532
City | State | Zip

Telephone Number

(301) 689-0488

Signature

Jody Ritchie, President | 4/29/22
Print Name and Title | Date

DO NOT WRITE IN THIS BLOCK
2. REGISTRATION NUMBER

County No. (1-2) | Premises No. (3-6)
Registration Class (7) | Equipment No. (8-11)
Data Year (12-13) | Application Date

1B. Equipment Location and Telephone Number (if different from above)

Sandbank Road
Street Number and Street Name

Frostburg | MD | 21532 | (301) 689-0488
City/Town | State | Zip | Telephone Number

Borden Tract #1
Premises Name (if different from above)

3. Status (A= New, B= Modification to Existing Equipment, C= Existing Equipment)

Status	New Construction Begun (MM/YY)	New Construction Completed (MM/YY)	Existing Initial Operation (MM/YY)
B	0 5 2 2		0 4 9 2
15	16-19	20-23	20-23

4. Describe this Equipment: Make, Model, Features, Manufacturer (include Maximum Hourly Input Rate, etc.)

Power Screen Jaw Crusher and Screening Plant operating at 150 TPH

5. Workmen's Compensation Coverage 0697333 (Binder/Policy Number) 9/2022 (Expiration Date)

Company Ritchie Trucking and Excavating, Inc.

NOTE: Before a Permit to Construct may be issued by the Department, the applicant must provide the Department with proof of worker's compensation coverage as required under Section 1-202 of the Worker's Compensation Act.

6A. Number of Pieces of Identical Equipment Units to be Registered/Permitted at this Time N/A

6B. Number of Stack/Emission Points Associated with this Equipment 2

7. Person Installing this Equipment (if different from Number 1 on Page 1)

Name _____ Title _____

Company _____

Mailing Address/Street _____

City/Town _____ State _____ Telephone (_____) _____

8. Major Activity, Product or Service of Company at this Location

Sandstone mining and processing operation

9. Control Devices Associated with this Equipment

None [ ] 24-0

Simple/Multiple Cyclone	Spray/Adsorb Tower	Venturi Scrubber	Carbon Adsorber	Electrostatic Precipitator	Baghouse	Thermal/Catalytic Afterburner	Dry Scrubber
[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
24-1	24-2	24-3	24-4	24-5	24-6	24-7	24-8

Other

[X] Describe Incorporated wet dust-suppresion system

24-9

10. Annual Fuel Consumption for this Equipment

OIL-1000 GALLONS	SULFUR %	GRADE	NATURAL GAS-1000 FT^3	LP GAS-100 GALLONS	GRADE
26-31	32-33	34	35-41	42-45	

COAL- TONS	SULFUR %	ASH%	WOOD-TONS	MOISTURE %
46-52	53-55	56-58	59-63	64-65

OTHER FUELS		ANNUAL AMOUNT CONSUMED	OTHER FUEL		ANNUAL AMOUNT CONSUMED
Diesel	[X]	6,200 gal / year		[ ]	
(Specify Type)	66-1	(Specify Units of Measure)	(Specify Type)	66-2	(Specify Units of Measure)

1= Coke 2= COG 3=BFG 4=Other

11. Operating Schedule (for this Equipment)

Continuous Operation	Batch Process	Hours per Batch	Batch per Week	Hours per Day	Days Per Week	Days per Year
[X]	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
67-1	67-2	68-69		70-71	72	73-75

Seasonal Variation in Operation:

No Variation	Winter Percent	Spring Percent	Summer Percent	Fall Percent	(Total Seasons= 100%)
[ ]	0	26	37	37	Inactive November-March
76	77-78	79-80	81-82	83-84	

12. Equivalent Stack Innformation- is Exhaust through Doors, Windows, etc. Only? (Y/N) [ ] 85

If not, then

Height Above Ground (FT)	Inside Diameter at Top	Exit Temperature (°F)	Exit Velocity (FT/SEC)
[ ][ ][ ]	[ ][ ][ ]	[ ][ ][ ][ ]	[ ][ ][ ]
86-88	89-91	92-95	96-98

NOTE:
Attach a block diagram of process/process line, indicating new equipment as reported on this form and all existing equipment, including control devices and emission points.

13. Input Materials (for this equipment only)
Is any of this data to be considered confidential? [N] (Y or N)

NAME	CAS NO. (IF APPLICABLE)	INPUT RATE PER HOUR	UNITS	PER YEAR	UNITS
1. Unprocecsed Sandstone		150	Tons	186,000	Tons
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
TOTAL					

14. Output Materials (for this equipment)
Process/Product Stream

NAME	CAS NO. (IF APPLICABLE)	OUTPUT RATE PER HOUR	UNITS	PER YEAR	UNITS
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
TOTAL					

15. Waste Streams- Solid and Liquid

NAME	CAS NO. (IF APPLICABLE)	OUTPUT RATE PER HOUR	UNITS	PER YEAR	UNITS
1.					
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
TOTAL					

16. Total Stack Emissions (for this equipment only) in Pounds Per Operating Day

Particulate Matter	Oxides of Sulfur	Oxides of Nitrogen
99-104	105-110	111-116

Carbon Monoxide	Volatile Organic Compounds	PM-10
177-122	123-128	129-134

17. Total Fugitive Emissions (for this equipment only) in Pounds Per Operating Day

Particulate Matter	Oxides of Sulfur	Oxides of Nitrogen
0.075	0.000	2.004
135-139	140-144	145-149

Carbon Monoxide	Volatile Organic Compounds	PM-10
0.000	0.952	1.678
150-154	155-159	160-164

Method Used to Determine Emissions **(1= Estimate 2= Emission Factor 3= Stack Test 4= Other)**

TSP	SOX	NOX	CO	VOC	PM10
2	2	2	2	2	2
165	166	167	168	169	170

AIR AND RADIATION MANAGEMENT ADMINISTRATION USE ONLY

18. Date Rec'd. Local _____ **Date Rec'd. State** _____ **Return to Local Jurisdiction** Date_____ By_____

Reviewed by Local Jurisdiction Date_____ By_____ **Reviewed by State** Date_____ By_____

19. Inventory Date **Month/Year** (171-174) **Equipment Code** (175-177) **SCC Code** (178-185)

20. **Annual Operating Rate** (186-192) **Maximum Design Hourly Rate** (193-199) **Permit to Operate Month** (200-201) **Transaction Date (MM/DD/YR)** (202-207)

Staff Code (208-210) **VOC Code** (211 212) **SIP Code** (213 214) **Regulation Code** (215-218) **Confidentiality** (219)

Point Description (220-238) **Action** (239) A: Add C: Change

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Ritchie Trucking & Excavating, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
CR-01

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
One Jaw Crusher equipped with wet suppression system

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	C	**Seasonal Variation** Check box if none: ☐ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	0
Hours per day:	8	Spring Percent	26
Days per week:	5	Summer Percent	37
Weeks per year:	50	Fall Percent	37

4. Emission Point Information

Height above ground (ft):	11.5	Length and width dimensions at top of rectangular stack (ft):	Length: -	Width: -	
Height above structures (ft):	11.5				
Exit temperature (°F):	-	Inside diameter at top of round stack (ft):		-	
Exit velocity (ft/min):	-	Distance from emission point to nearest property line (ft):		>400ft	
Exhaust gas volumetric flow rate (acfm):	-	Building dimensions if emission point is located on building (ft)	Height -	Length -	Width -

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

☐ None

☐ Baghouse No. _____

☐ Cyclone No. _____

☐ Elec. Precipitator (ESP) No. _____

☒ Dust Suppression System No. --- Integrated

☐ Venturi Scrubber No. _____

☐ Spray Tower/Packed Bed No. _____

☐ Carbon Adsorber No. _____

- ☐ Cartridge/Canister
- ☐ Regenerative

☐ Thermal Oxidizer No. _____

- ☐ Regenerative

☐ Catalytic Oxidizer No. _____

☐ Nitrogen Oxides Reduction No. _____

- ☐ Selective ☐ Non-Selective
- ☐ Catalytic ☐ Non-Catalytic

☐ Other No. _____
Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.0828	0.0828	0.6622	0.0502
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)	0.0067	0.0067	0.0536	0.0041
Volatile Organic Compounds (VOC)	0.0846	0.0846	0.6768	0.0524
Oxides of Sulfur (SOx)				
Oxides of Nitrogen (NOx)	0.1781	0.1781	1.424	0.1104
Carbon Monoxide (CO)	1.558	1.558	12.48	0.9664
Lead (Pb)				

Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)				
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)				

List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Crystalline Silica	0.0149	0.0149	0.1190	0.0090

(Attach additional sheets as necessary.)

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FORM 5EP: Emission Point Data

Complete one (1) Form 5EP for EACH emission point (stack or fugitive emissions) related to the proposed installation.

Applicant Name: Ritchie Trucking & Excavating, Inc.

1. Emission Point Identification Name/Number

List the applicant assigned name/number for this emission point and use this value on the attached required plot plan:
SC-01

2. Emission Point Description

Describe the emission point including all associated equipment and control devices:
One inclined power screen with incorporated dust suppression system

3. Emissions Schedule for the Emission Point

Continuous or Intermittent (C/I)?	C	**Seasonal Variation** Check box if none: ☐ Otherwise estimate seasonal variation:	
Minutes per hour:	60	Winter Percent	0
Hours per day:	8	Spring Percent	26
Days per week:	5	Summer Percent	37
Weeks per year:	50	Fall Percent	37

4. Emission Point Information

Height above ground (ft):	16.25	Length and width dimensions at top of rectangular stack (ft):	Length:	Width:	
Height above structures (ft):	16.25		-	-	
Exit temperature (°F):	-	Inside diameter at top of round stack (ft):		-	
Exit velocity (ft/min):	-	Distance from emission point to nearest property line (ft):		> 400 ft	
Exhaust gas volumetric flow rate (acfm):	-	Building dimensions if emission point is located on building (ft)	Height -	Length -	Width -

5. Control Devices Associated with the Emission Point

Identify each control device associated with the emission point and indicate the number of devices. ***A Form 6 is also required for each control device***. If none check none:

- ☐ None
- ☐ Baghouse No. _____
- ☐ Cyclone No. _____
- ☐ Elec. Precipitator (ESP) No. _____
- ☒ Dust Suppression System No. --- Integrated
- ☐ Venturi Scrubber No. _____
- ☐ Spray Tower/Packed Bed No. _____
- ☐ Carbon Adsorber No. _____
  - ☐ Cartridge/Canister
  - ☐ Regenerative
- ☐ Thermal Oxidizer No. _____
  - ☐ Regenerative
- ☐ Catalytic Oxidizer No. _____
- ☐ Nitrogen Oxides Reduction No. _____
  - ☐ Selective ☐ Non-Selective
  - ☐ Catalytic ☐ Non-Catalytic
- ☐ Other No. _____
  Specify:

FORM 5EP: Emission Point Data

6. Estimated Emissions from the Emission Point

Criteria Pollutants	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Particulate Matter (filterable as PM10)	0.1134	0.1134	0.9075	0.0688
Particulate Matter (filterable as PM2.5)				
Particulate Matter (condensables)	0.0027	0.0027	0.0216	0.0017
Volatile Organic Compounds (VOC)	0.0344	0.0344	0.2752	0.0213
Oxides of Sulfur (SOx)				
Oxides of Nitrogen (NOx)	0.0723	0.0723	0.5784	0.0448
Carbon Monoxide (CO)	0.6327	0.6327	5.062	0.3923
Lead (Pb)				

Greenhouse Gases (GHG)	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Carbon Dioxide (CO_2)				
Methane (CH_4)				
Nitrous Oxide (N_2O)				
Hydrofluorocarbons (HFCs)				
Perfluorocarbons (PFCs)				
Sulfur Hexafluoride (SF6)				
Total GHG (as CO_2e)				

List individual federal Hazardous Air Pollutants (HAP) below:	At Design Capacity (lb/hr)	At Projected Operations		
		(lb/hr)	(lb/day)	(ton/yr)
Crystalline Silica	0.0068	0.0068	0.0540	0.0041

(Attach additional sheets as necessary.)

Site: Borden Tract Crushing & Screening Plant Permit No.: 001-00308
Company: Ritchie Trucking and Excavating, Inc. Year: 2022

Production: 186,000 **ton/year for** 7 **months/year** 40 **hours/week**
5 **days/week**

* AP-42, Table 11.19.2-2, moisture <1.5%, considered wet controlled.

Primary Crushing: (PM-10)
0.00054 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.6622 lb/day x 151.67 day/year x ton/2,000lb = 0.050 TPY

Secondary Crushing: (PM-10) N/A
0.00054 lb/ton x _____ ton/year x yr/ _____ day =
_____ lb/day x _____ day/year x ton/2,000lb = _____ TPY

Tertiary Crushing: (PM-10) N/A
0.00054 lb/ton x _____ ton/year x yr/ _____ day =
_____ lb/day x _____ day/year x ton/2,000lb = _____ TPY

Screening: (PM-10)
0.00074 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.9075 lb/day x 151.67 day/year x ton/2,000lb = 0.0688 TPY

Conveyor Transfer Point: (PM-10)
0.000046 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.0564 lb/day x 151.67 day/year x ton/2,000lb = 0.0043 TPY

Truck Unloading: (PM-10)
0.000016 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.0196 lb/day x 151.67 day/year x ton/2,000lb = 0.0015 TPY

Truck Loading: (PM-10)
0.0001 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.1226 lb/day x 151.67 day/year x ton/2,000lb = 0.0093 TPY

TOTAL PM-10 EMISSIONS = 1.768 lb/day & 0.134 TPY

Site: Borden Tract Crushing & Screening Plant Permit No.: 001-00308
Company: Ritchie Trucking and Excavating, Inc. Year: 2022

Production: 186,000 **ton/year for** 7 **months/year** 40 **hours/week**
5 **days/week**

The following calculations are in accordance with U.S. EPA & CARB Tier 4 Final Emissions Standards for an NRE rated at 202 kW.

Primary Jaw Crusher:

NO_x
0.178 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.11 TPY

CO
1.56 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.97 TPY

VOC(HC)
0.08 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.05 TPY

Particulate Matter (PM)
0.0067 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.004 TPY

The following calculations are in accordance with U.S. EPA & CARB Tier 4 Final Emissions Standards for an NRE rated at 82 kW.

Double Deck Screen:

NO_x
0.072 lbs/hr x 1,240 hours/yr ÷ 2000 lbs/Ton = 0.04 TPY

CO
0.63 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.39 TPY

VOC(HC)
0.03 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.02 TPY

Particulate Matter (PM)
0.0027 lbs/hr x 1,240 hours ÷ 2000 lbs/Ton = 0.002 TPY

Site: Borden Tract Crushing & Screening Plant
Company: Ritchie Trucking and Excavating, Inc.

Permit No.: 001-00308
Year: 2022

Production: 186,000 **ton/year for** 7 **months/year**
5 **days/week**
40 **hours/week**

PM_4 Crystalline Silica Emissions Factors taken from a study in the Journal of the Air & Waste Management Association on Ambient Concentrations in Aggregate-Producing Sources.

Primary Crushing: (PM_4)

0.000097 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.1190 lb/day x 151.67 day/year x ton/2,000lb = 0.009 TPY

Screening: (PM_4)

0.000044 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.0540 lb/day x 151.67 day/year x ton/2,000lb = 0.0041 TPY

Conveyor Transfer Point: (PM_4)

0.000048 lb/ton x 186,000 ton/year x yr/ 151.67 day =
0.0589 lb/day x 151.67 day/year x ton/2,000lb = 0.0045 TPY

TOTAL PM_4 EMISSIONS = 0.232 lb/day & 0.018 TPY

PREMIERTRAK 400X/R400X POST-SCREEN

The Powerscreen® Premiertrak 400X range of high performance primary jaw crushing plants are designed for medium scale operators in quarrying, demolition, recycling and mining applications. The range includes the Premiertrak 400X with hydraulic adjust and the Premiertrak R400X with hydraulic release. The Premiertrak 400X post-screen allows users to generate a type one product at high volume from one machine. It has been designed so that it has a quick release system, to ensure maximum uptime and easy service and maintenance.

Features & Benefits

- High output and excellent reduction capability
- Wear resistant hydraulic folding feed hopper with hydraulic wedge fixing system
- Excellent under crusher access for removal of wire with hydraulic raise lower product conveyor
- Stepped self-cleaning grizzly feeder with under feeder screen option
- Deep fines chute to reduce material blockages
- Improved bypass chute to increase material flow
- Aggressive crushing action with high swing jaw encouraging material entry into crushing chamber
- Hydraulic crusher setting adjustment
- Improved manganese liner retention, protects jaw supports on both swing & fixed jaws
- Economical to operate with low fuel consumption due to highly efficient direct drive system
- Angle adjustable product conveyor
- Easy access power unit canopy
- PLC control system with auto start facility
- Remote control via umbilical
- Dust suppression system
- Easily set up
- Fitted with Powerscreen Pulse Telematics system
- 650mm wide bypass conveyor
- Fully inclined catwalks
- Single deck post-screen

Options

- Patented hydraulic deflector plate under crusher
- Side conveyor /extended side conveyor
- Single pole/twin pole magnet
- Radio remote control
- Belt weigher
- Electric refuelling pump
- Hydraulically driven water pump
- Wire mesh for underscreen
- Super tooth or multi tooth jaw plates
- Extended hopper
- Unblock motor
- Extended main conveyor
- Over crusher level sensor
- Patented hydraulic crusher overload system, ideal for applications with un-crushable material in feed. 200mm²
- Pre-screen

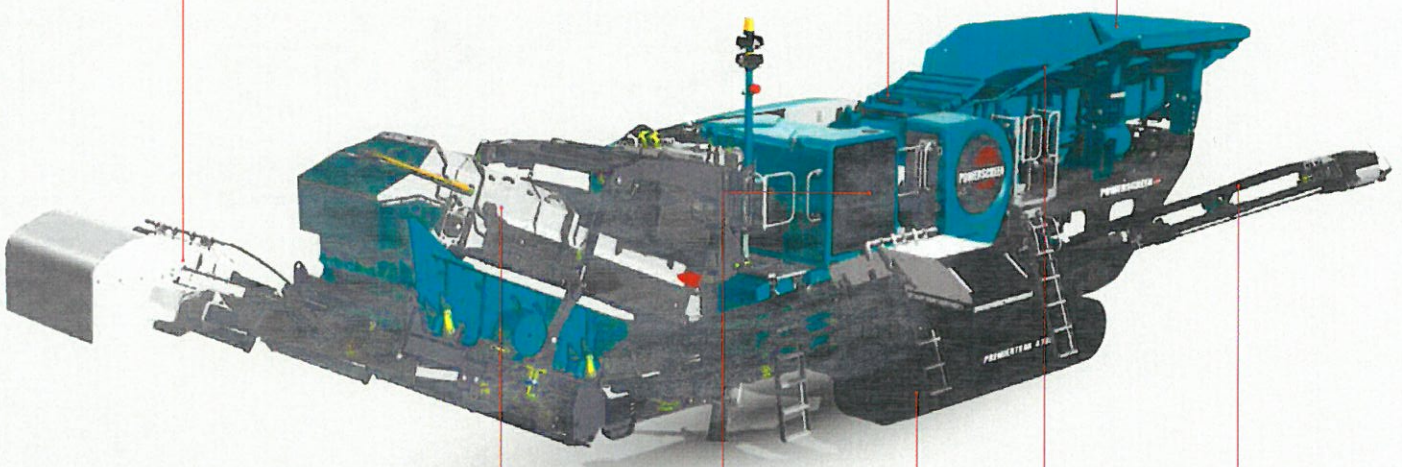
Applications

- Sand & gravel
- Blasted rock
- River rock
- C & D waste
- Overburden
- Foundry waste
- Processed ores
- Processed minerals

PREMIERTRAK	400/400X Post-Screen
Weight (Est) (Tier 3) Weight (Est) (Tier 4F)	52,300kg (115,301lbs) 52,500kg (115,742lbs)
Transport width	2.8m (9'2")
Transport length	15.52m (50'11")
Transport height	3.4m (11'2")
Working width with side conveyor	4.33m (14'2")
Working length	16.64m (54'7")
Working height	4.13m (13'6")

*Depends on application

Engines are available that are certified to US EPA and EU off road diesel emission standards. Talk to your dealer about possible certification options (i.e. Tier 3/Stage 3A; Tier 4F / Stage 4, Constant speed).



Output Potential
Up to 400 tph (441 US tph)*

Product Conveyor
Width: 1000mm (39")
Discharge height: 3.5m (11'5")

Crusher
High capacity single toggle jaw
Chamber size: 1100mm x 700mm (44" x 28")
Min CSS: 50mm (2")*
Max CSS: 150mm (6")*

Hopper
Wear resistant feed hopper
Length: 4.9m (16'1")
Width: 2.49m (8'2")
Capacity: 10m³ (13yds³)

Single deck post-screen
Screen area: 2.44m x 1.52m (8' x 5')
Discharge height: 2.8m (9'2")

Power Unit
Tier 3/Stage 3A:
CAT C9 ACERT 194kW (260hp)
Tier 4F/Stage 4:
Scania DC9 84A 202kW (275hp)
Fuel tank capacity: 450 L (119 US Gal)
Constant speed option

Tracks
Width: 500mm (19.7")

Feeder
Vibrating pan and grizzly feeder
Feeder length: 4.20m (13'9")
Feeder width: 1.06m (3'6")
Grizzly length: 2.12m (7')

Side Conveyor (option)
Width: 650mm (25.6")
Discharge height: 2.2m (7'2")

POWERSCREEN®
A TEREX BRAND

CHIEFTAIN 2100X

The Powerscreen® Chieftain 2100X is designed for medium to large scale operators who require large volumes of high specification products. The Chieftain 2100X is the largest model to feature a high capacity hopper, belt feeder and radio controlled tipping grid.

A key feature is the patented hydraulically folding recirculating conveyor on the 3 deck version, eliminating the need for a crane on site and a 2 bearing screen with adjustable screen speed and amplitude with hydraulic screen angle adjustment.

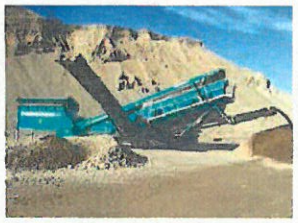
User benefits include a quick set-up time (typically under 30 minutes) with hydraulically folding conveyors and track mobility, class leading stockpile discharge heights and a drop down tail conveyor and hydraulically raising min conveyor to aid screen media changes.

Features & Benefits

- 2 or 3 deck
- Radio controlled tipping grid
- Integrated high capacity variable speed belt feeder
- Oil bath lubricated 2 bearing screenbox
- Heavy duty single shaft screenboxes with adjustable stroke, angle and speed
- Screen walkway and access ladder
- Hydraulic folding conveyors with excellent stockpiling capacity

Options

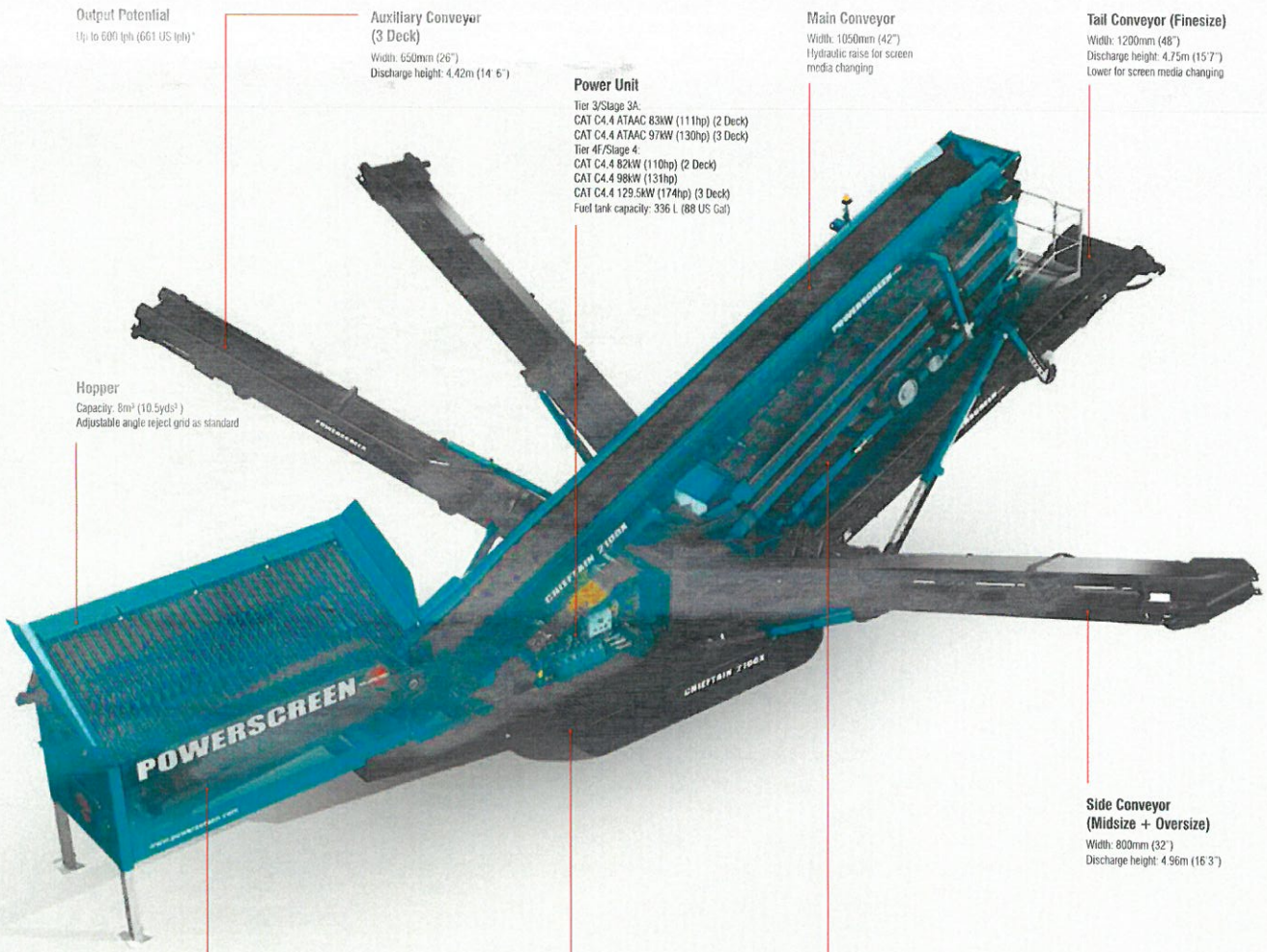
- Double deck vibrating grizzly
- Radio controlled tracking
- Anti roll-back
- Dual Power (additional electric hydraulic drive)
- Roll-in bogie prepared
- Roll-in bogie equipped
- Auto lubrication system
- Dust suppression
- Quick release wedge tensioning (top/middle decks)
- Oversize transfer conveyor for Biomass and recycling (3 deck model)
- Extended recirculating conveyor attached for transport (3 deck model)
- Hydraulic screen tensioning (Bottom Deck)



CHIEFTAIN 2100X	TRACK (2 DECK)	TRACK (3 DECK)
Weight (Est)	34,700kg (76,500lbs)	37,400kg (82,453lbs)
Transport width	3m (9'10)	3m (9'10")
Transport length	19.01m (62'4")	19.06m (62'7")
Transport height	3.47m (11'5")	3.47m (11'5")
Working width	18.3m (60')	18.3m (60')
Working length	19.8m (64'11")	19.47m (63'11")
Working height	5.89m (19'4")	6.29m (20'8")

*Output potential depends on application

Engines are available that are certified to US EPA and EU off road diesel emission standards. Talk to your dealer about possible certification options (i.e. Tier 3/Stage 3A, Tier 4i/Stage 3B, Tier 4f/Stage 4).



Output Potential
Up to 600 tph (661 US tph)*

Auxiliary Conveyor (3 Deck)
Width: 650mm (26")
Discharge height: 4.42m (14'6")

Power Unit
Tier 3/Stage 3A:
CAT C4.4 ATAAC 83kW (111hp) (2 Deck)
CAT C4.4 ATAAC 97kW (130hp) (3 Deck)
Tier 4F/Stage 4:
CAT C4.4 82kW (110hp) (2 Deck)
CAT C4.4 98kW (131hp)
CAT C4.4 129.5kW (174hp) (3 Deck)
Fuel tank capacity: 336 L (88 US Gal)

Main Conveyor
Width: 1050mm (42")
Hydraulic raise for screen media changing

Tail Conveyor (Finesize)
Width: 1200mm (48")
Discharge height: 4.75m (15'7")
Lower for screen media changing

Hopper
Capacity: 8m³ (10.5yds³)
Adjustable angle reject grid as standard

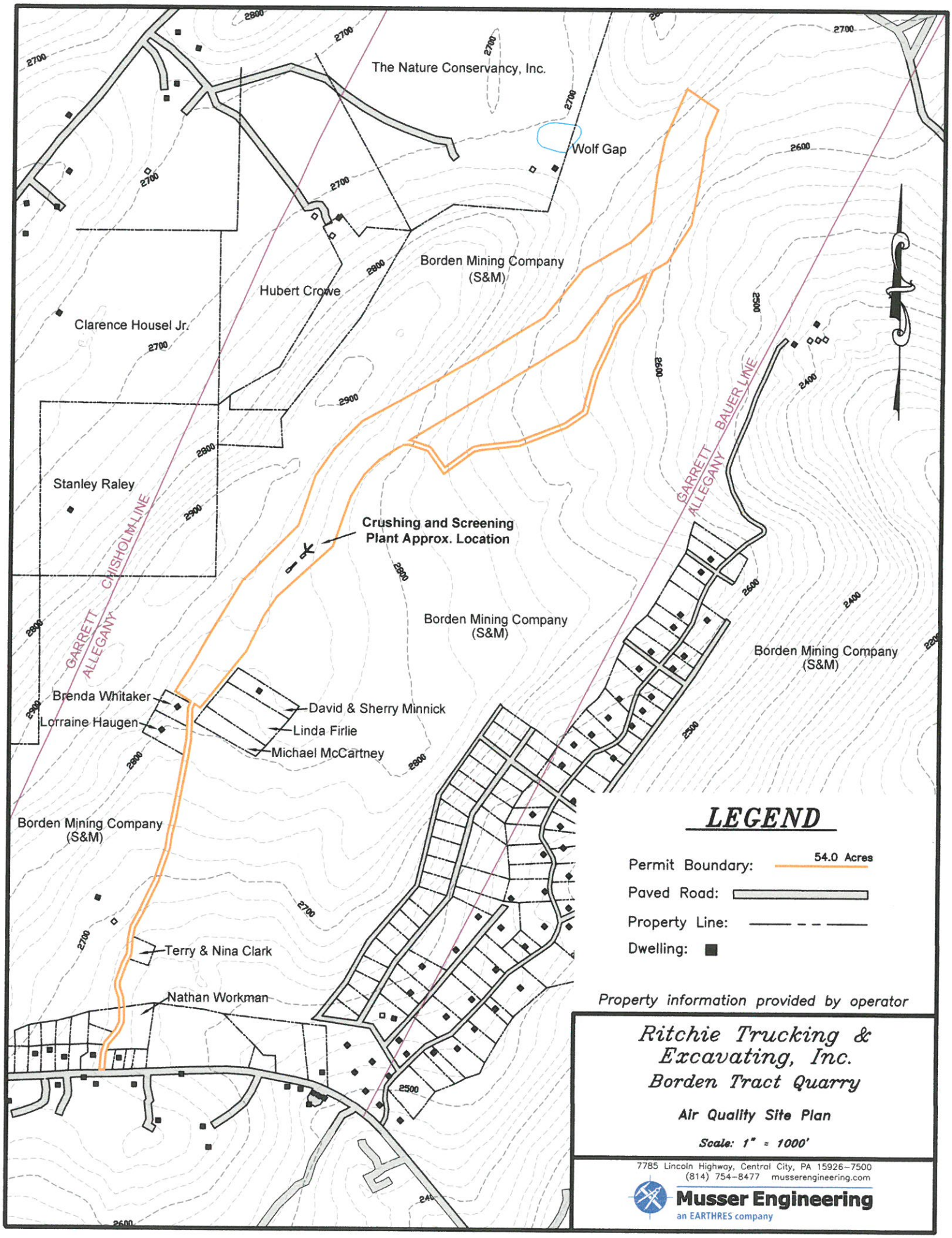
Side Conveyor (Midsize + Oversize)
Width: 800mm (32")
Discharge height: 4.96m (16'3")

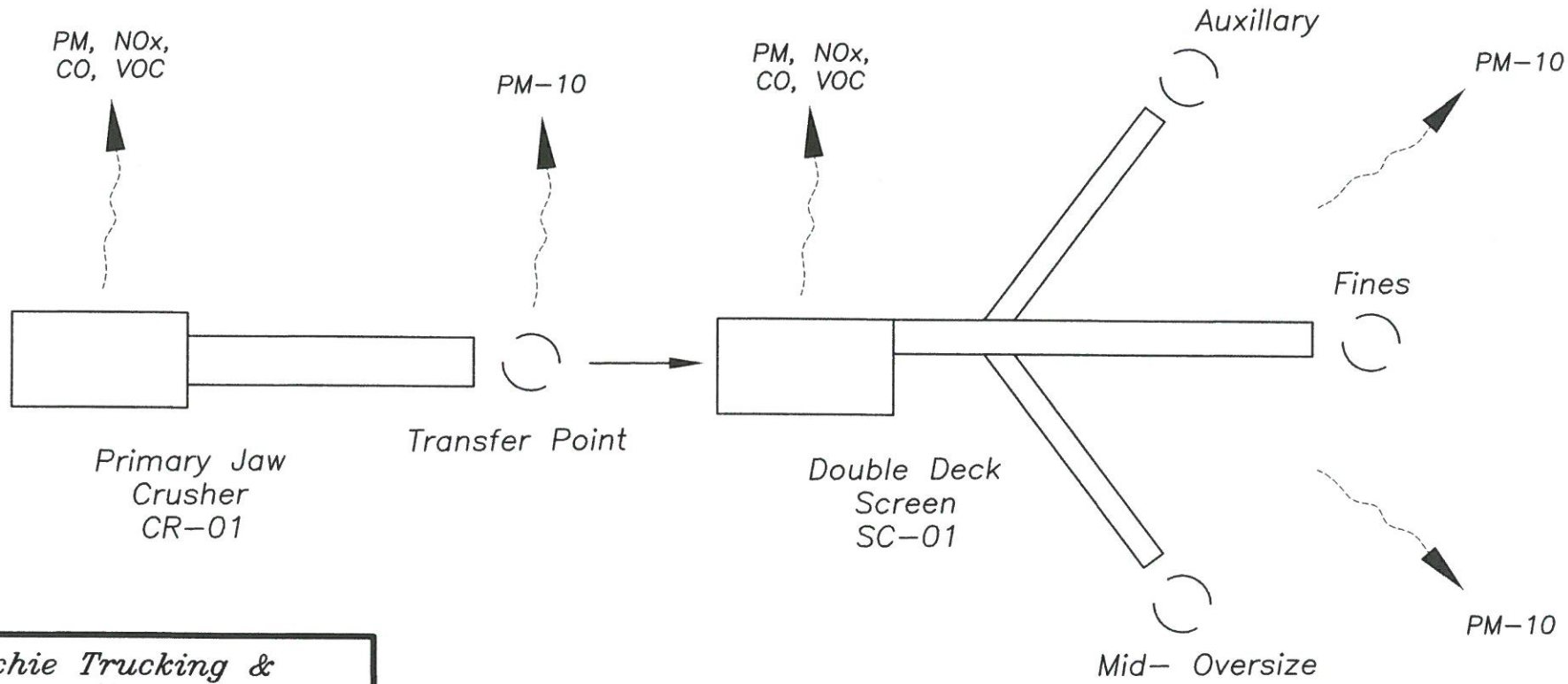
Feeder Conveyor
Width: 1200mm (47")
Variable speed control

Tracks
Width: 500mm (19.7")

Screenbox
2 Bearing, 2 & 3 deck screenbox
Size: 6.1m x 1.53m (20' x 5')

POWERSCREEN®
A TEREX BRAND


The Nature Conservancy, Inc.
Wolf Gap
Borden Mining Company (S&M)
Hubert Crowe
Clarence Housel Jr.
Stanley Raley
GARRETT ALLEGANY CHISHOLM LINE
GARRETT ALLEGANY BAUER LINE
Crushing and Screening Plant Approx. Location
Borden Mining Company (S&M)
Borden Mining Company (S&M)
Borden Mining Company (S&M)
Brenda Whitaker
Lorraine Haugen
David & Sherry Minnick
Linda Firlie
Michael McCartney
Terry & Nina Clark
Nathan Workman
LEGEND
Permit Boundary: 54.0 Acres
Paved Road:
Property Line:
Dwelling:
Property information provided by operator
Ritchie Trucking & Excavating, Inc.
Borden Tract Quarry
Air Quality Site Plan
Scale: 1" = 1000'
7785 Lincoln Highway, Central City, PA 15926-7500
(814) 754-8477 musserengineering.com
Musser Engineering
an EARTHRES company



Ritchie Trucking & Excavating, Inc.

Borden Tract Quarry

Process Flow Diagram

Not to Scale

7785 Lincoln Highway, Central City, PA 15926–7500
(814) 754–8477 musserengineering.com
Musser Engineering
an EARTHRES company

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Management Administration / Air Quality Permits Program
1800 Washington Boulevard, STE 720 Baltimore, MD 21230-1720
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Mail application to
MDE/ARMA
1800 Washington Blvd, Suite 720
Baltimore, MD 21230-1720

Don't forget to:
✓ *Sign the application*
✓ *Include vendor literature*

Air Quality Permit to Construct & Registration Application for

INTERNAL COMBUSTION ENGINES

(Electrical Power Generators, Power Equipment, Fire Protection Pumps)

1) Applicability

You must check off one the following items to use this application form

☐ Electrical power generation (off grid, base load, peak, load shaving,, etc)
- Use MDE Form 42 for emergency use only generators

☒ Power equipment (hydraulic, mechanical, etc)
☐ Fire protection pump

***For electrical power generators only**, you must check off one the following items to use this application form*

☐ I have a CPCN Exemption from the Public Service Commission for this generator (contact the Public Service Commision at 410.767.8131)
☐ This generator was installed before October 1, 2001 and I do not need a CPCN Exemption

2) Business/Institution/Facility where the engine will be located ☐ Check if this is a federal facility

Name: Borden Tract #1 Phone: (301)689-0488

Street Address: Sandbank Road

City: Frostburg State: MD Zip Code: 21532 County: Allegany

3) Owner/Operator of the engine (if different than above)

Name: _____ Phone: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

4) Installer ☐ Check if installer is applying for permit. If checked, complete the following:

Name: _____ Phone: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

5) Engine Information

May 2022	Scania DC9 84A	275		Diesel
Installation Date	Engine Manufacturer & Model	Horsepower	Manufacture Date	Fuel Type

6) Operating Information

Intended use description: (Examples, "a portable generator at a construction site" or "peak shaving with the emergency generator", etc)

A mobile primary jaw-crushing plant.

8	1240
Hours per day	Hours per year

7) Required Attachments

(Check that they are attached)

☒ Vendor literature

☐ CPCN Exemption from the Public Service Commission

- Electrical generators only
- Not needed for generators installed before October 1, 2001

8) Workers Compensation (Environmental article §1-202)

Workers insurance policy or binder number: 0697333

☐ Check if self employed or otherwise exempt from this requirement

"I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION SUBMITTED IN THIS REQUEST FOR COVERAGE IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

Owners Signature	Jolly Ritchie / President	4/29/22
	Printed Name & Title	Date

LEAVE BLANK, MDE use only

☐ Permit

☐ Registration (Less than 1,000 brake horsepower & installed prior to 11/24/03)

Permit/Registration Number: _____ - ___ - _____ - _____

AI: _____

Emissions Stack						
Fugitive						
	SOx	Nox	CO	VOC	PM	PM-10

MARYLAND DEPARTMENT OF THE ENVIRONMENT

Air and Radiation Management Administration / Air Quality Permits Program
1800 Washington Boulevard, STE 720 Baltimore, MD 21230-1720
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Mail application to
MDE/ARMA
1800 Washington Blvd, Suite 720
Baltimore, MD 21230-1720

Don't forget to:
✓Sign the application
✓Include vendor literature

Air Quality Permit to Construct & Registration Application for

INTERNAL COMBUSTION ENGINES

(Electrical Power Generators, Power Equipment, Fire Protection Pumps)

1) Applicability

You must check off one the following items to use this application form

- ☐ Electrical power generation (off grid, base load, peak, load shaving,, etc)
  - Use MDE Form 42 for emergency use only generators
- ☒ Power equipment (hydraulic, mechanical, etc)
- ☐ Fire protection pump

***For electrical power generators only**, you must check off one the following items to use this application form*

- ☐ I have a CPCN Exemption from the Public Service Commission for this generator (contact the Public Service Commision at 410.767.8131)
- ☐ This generator was installed before October 1, 2001 and I do not need a CPCN Exemption

2) Business/Institution/Facility where the engine will be located ☐ Check if this is a federal facility

Name: Borden Tract #1 Phone: _____

Street Address: Sandbank Road

City: Frostburg State: MD Zip Code: 21532 County: Allegany

3) Owner/Operator of the engine (if different than above)

Name: _____ Phone: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

4) Installer ☐ Check if installer is applying for permit. If checked, complete the following:

Name: _____ Phone: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

5) Engine Information

May 2022	CAT 4.4	110		Diesel
Installation Date	Engine Manufacturer & Model	Horsepower	Manufacture Date	Fuel Type

6) Operating Information

Intended use description: (Examples, "a portable generator at a construction site" or "peak shaving with the emergency generator", etc)

A mobile double-deck screening plant.

8	1240
Hours per day	Hours per year

7) Required Attachments

(Check that they are attached)

☒ Vendor literature

☐ CPCN Exemption from the Public Service Commission

- Electrical generators only
- Not needed for generators installed before October 1, 2001

8) Workers Compensation (Environmental article §1-202)

Workers insurance policy or binder number: 0697333

☐ Check if self employed or otherwise exempt from this requirement

"I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION SUBMITTED IN THIS REQUEST FOR COVERAGE IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

	Jody Notaro, President	4/29/22
Owners Signature	Printed Name & Title	Date

LEAVE BLANK, MDE use only

☐ Permit

☐ Registration (Less than 1,000 brake horsepower & installed prior to 11/24/03)

Permit/Registration Number: _____ - ____ - _____ - _____

AI: _____

Emissions Stack						
Fugitive						
	SOx	Nox	CO	VOC	PM	PM-10

Musser Engineering
an EARTHRES company
7785 Lincoln Highway, Central City, PA 15926-7500
Engineers • Surveyors • Geologists
814-754-8477
Fax 814-754-5599
musserengineering.com

April 22, 2022

CERTIFIED MAIL # 7014 1200 0001 8602 7911

Allegany County Planning Commission
701 Kelly Road
Cumberland, MD 21502
Attn: James A. Squires Jr., Director

RE: Ritchie Trucking & Excavating, Inc.
Borden Tract Quarry, Facility No. 001-00308
Air Quality Permit

Dear Mr. Squires,

The purpose of this notice is to inform you that Ritchie Trucking & Excavating, Inc., is submitting an Air Quality Control Permit to the Maryland Department of the Environment, Air Quality Program, for their Borden Tract Sandstone Quarry. The site is located off of Route 40 along Sandbank Road west of Frostburg in Allegany County, as depicted on the attached USGS map. The facility is a sandstone mining and processing operation that has been permitted for operation since 1992 (91-SP-0400). This application is being made to amend the existing Air Quality Permit (001-00308) for the replacement of one Jaw Crusher and one Screen being used at the facility.

It is my understanding that Allegany County does not have any zoning or land-use restrictions at the project site in opposition to the quarry's operation that would impede the approval of this permit. Your confirmation or contest to that along with any comments that may arise is requested in response to this letter for the purpose of application completion. If you have any questions or concerns, please call me at the number listed above.

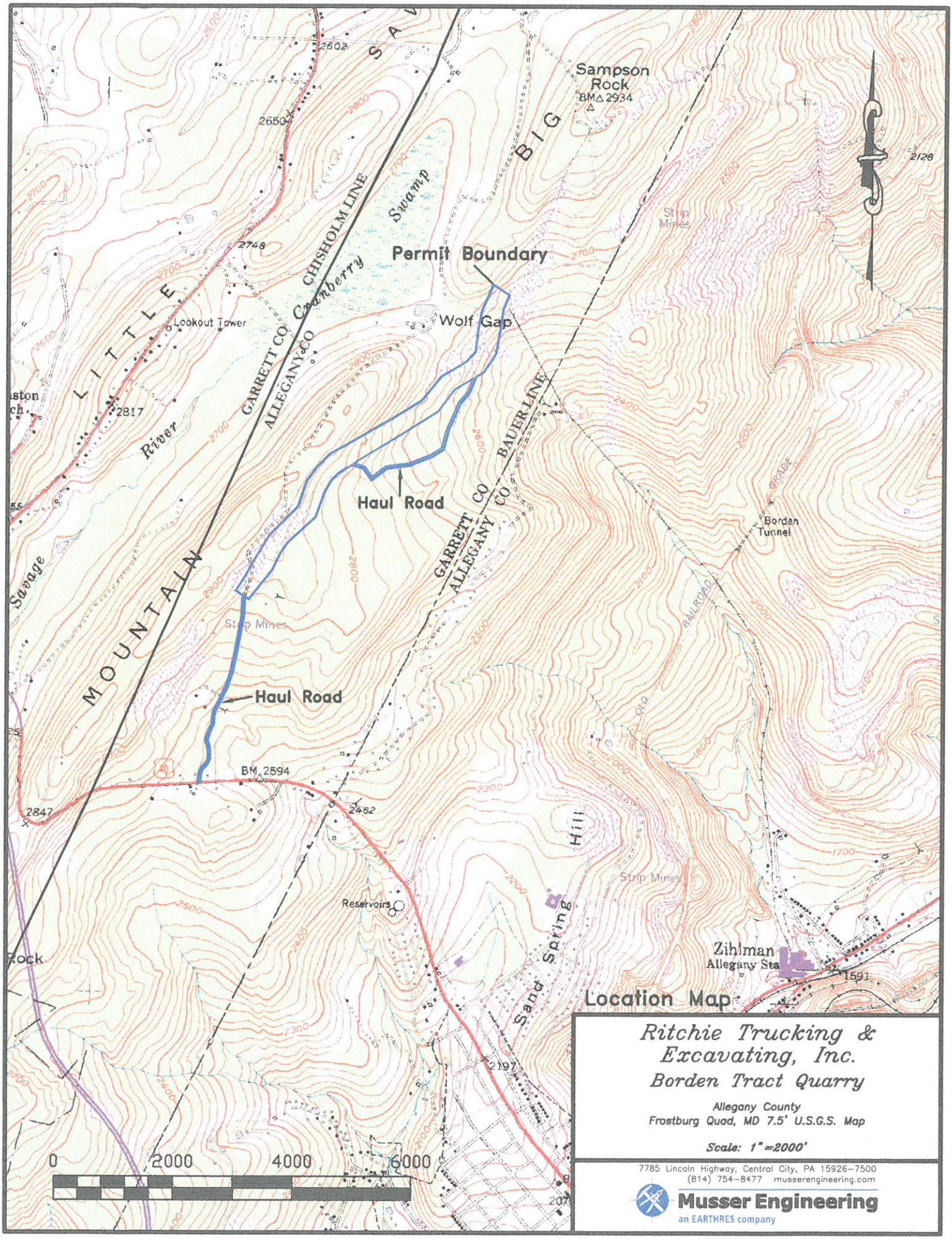
Sincerely,

Nita Williams
Engineering Technician

Enclosures

Cc: Ritchie Trucking & Excavating, Inc.
File

M:\RITCHIE TRUCKING & EXCAVATING INC\BORDEN TRACT QUARRY - SM-91-SP-0400\Air Quality Management Amendment (5119)\Air Quality Permit to Construct\Notice Letter 4-8-22.docx



Ritchie Trucking & Excavating, Inc.

Borden Tract Quarry

Allegany County
Frostburg Quad, MD 7.5' U.S.G.S. Map

Scale: 1"=2000'

7785 Lincoln Highway, Central City, PA 15926-7500
(814) 754-8477 musserengineering.com
Musser Engineering
an EARTHRES company

RITCHIE-MD

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	$ 0.53
Certified Fee	3.75
Return Receipt Fee (Endorsement Required)	3.05
Restricted Delivery Fee (Endorsement Required)	—
Total Postage & Fees	$ 7.33

Postmark Here
APR 22 2022

7014 1200 0001 8602 7911

Sent To: Allegany County Planning Commission
Street, Apt. No., or PO Box No.: 701 Kelly Road
City, State, ZIP+4: Cumberland MD 21502

PS Form 3800, August 2006 — See Reverse for Instructions

RITCHIE-MD

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Allegany County Planning Commission
701 Kelly Road
Cumberland MD 21502

9590 9402 6717 1060 1016 24

2. Article Number *(Transfer from service label)*
7014 1200 0001 8602 7911

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x Cynthia M. O'Donnell ☐ Agent ☒ Addressee

B. Received by *(Printed Name)*: Cynthia O'Donnell
C. Date of Delivery:

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
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- ☐ Registered Mail Restricted Delivery
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2020 PSN 7530-02-000-9053 — Domestic Return Receipt

Musser Engineering
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7785 Lincoln Highway, Central City, PA 15926-7500
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814-754-8477
Fax 814-754-5599
musserengineering.com

May 9, 2022

Maryland Department of the Environment
Air Quality Permits Program
Air and Radiation Administration
1800 Washington Blvd.
Baltimore, MD 21230
Attn: Matt Haffner - Chief, Chemical & Mineral Division

RE: Ritchie Trucking & Excavating, Inc.
Borden Tract #1 Quarry
Facility No. 001-00308
Allegany County

Dear Mr. Haffner,

I would like to thank you in advance for you time and cooperation in this matter. We trust that this will end discussions regarding acceptance of a revision to an existing permit for an air quality plan and the need for any future correspondence from the Allegany Department of Planning and Zoning. Attached to this email, please find the response from the Planning & Zoning that the above referenced permit was granted authorization as a Special Permit in August 14, 1991. Mining at this site has continued on and off since this time without dispute as to its validity.

At this time, we ask that you accept the Air Quality Permit submitted on May 2nd, 2022, for modification to certain equipment based upon (1) the longevity of this operation, and (2) the reply from Planning & Zoning that the sandstone crushing and screening plant is an allowed use as provided by the "special exemption."

Again, I want to thank you for the time you have dedicated to this. We look forward to getting the Air Quality Permit approval in a timely manner to facilitate future operations at this site. If you have any questions or concerns, please call me at the number listed above.

Sincerely,

Ronald L. Musser, P.G.
Vice President

Enclosures

Cc: Ritchie Trucking & Excavating, Inc.
File

M:\RITCHIE TRUCKING & EXCAVATING INC\BORDEN TRACT QUARRY - SM-91-SP-0400\Air Quality Management Amendment (5119)\Air Quality Permit to Construct\RE Land Use Approval.docx

Gmail

Nita Williams <nwilliams.musser@gmail.com>

Borden quarry boza 679

1 message

Jerrod Cook <jcook@alleganygov.org> Thu, Jun 2, 2022 at 12:30 PM
To: nwilliams.musser@gmail.com, Faith Ritchie <fritchie@ritchietrucking.net>
Cc: Jerrod Cook <jcook@alleganygov.org>, James Squires <jsquires@alleganygov.org>

Nita,

Regarding your recent inquiries regarding the authorization of the sand quarry operation located on the Sand Bank Road, west of the city of Frostburg. I have recovered the Minutes of BOZA Case #697. The use of this quarry was granted as a 'Special Permit' by the Board of Zoning Appeals on August 14,1991. Reference attachments.

Thanks,

Jerrod

Jerrod Cook
Planner
Department of Planning and Zoning - Zoning Office
Allegany County Government

t: 301-777-5951
w: http://www.alleganygov.org
a: Allegany County Complex
701 Kelly Road
Cumberland, Maryland 21502

Inquiry 220525_Sand Bank Road quarry.pdf
406K

ation & Date: County Office Building, 3 Pershing Street, Cumberland, Maryland, 7:30 p.m., Wednesday, August 14, 1991

sent: Members of the Board: William S. O'Donnell
Leslie R. Miles

Staff Members: David A. Dorsey Terry Bennett
James Squires Frank Montana

e #697: Filed by Patriot Mining Co., Inc., requesting a "Special" permit for an extractive Type Industry (clay and sandstone quarry) on property owned by Borden Mining Company. The proposed site is located 1 mile Northeast of U.S. Rt. 40 at the intersection of Sand Bank Road, near Sampson Rock, in Election District 30.

arances for the Applicant:
John Carey

arances for the Opposition:

Leonard Twigg
Bruce May
Robert Farrell
David Brode

n of the Board:
Approved, 2-0

Allegany County Board of Zoning Appeals

William S. O'Donnell

William S. O'Donnell, Chairman

For further information concerning this case, reference is made to testimony recorded, filed with the Allegany County Planning and Zoning Commission, and is therefore a part of this hearing.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION
APPLICATION FOR A PERMIT TO CONSTRUCT

SUPPLEMENT TO
DOCKET #13-22

COMPANY: Ritchie Trucking & Excavating, Inc.

LOCATION: Sandbank Rd, Frostburg, MD 21532

APPLICATION: One (1) 150 ton per hour sandstone crushing and screening plant equipped with wet suppression and two (2) diesel engines.

ITEM	DESCRIPTION
1	Notice of Tentative Determination, Opportunity to Request a Public Hearing, and Opportunity to Submit Written Comments
2	Fact Sheet and Tentative Determination
3	Draft Permit to Construct and Conditions
4	Supplemental Information
5	Privilege Log – Not Applicable

MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION

NOTICE OF TENTATIVE DETERMINATION, OPPORTUNITY TO REQUEST A PUBLIC HEARING, AND OPPORTUNITY TO SUBMIT WRITTEN COMMENTS

FIRST NOTICE

The Department of the Environment, Air and Radiation Administration (ARA) has completed its review of an application for a Permit to Construct submitted by Ritchie Trucking & Excavating, Inc. on June 17, 2022 for the installation of one (1) 150 ton per hour sandstone crushing and screening plant equipped with wet suppression and two (2) diesel engines. The proposed installation will be located at Sandbank Rd., Frostburg, MD 21532.

Pursuant to Section 1-604, of the Environment Article, Annotated Code of Maryland, the Department has made a tentative determination that the Permit to Construct can be issued and is now ready to receive public comment on the application. Copies of the Department's tentative determination, the application, the draft permit to construct with conditions, and other supporting documents are available for public inspection on the Department's website. Look for Docket #13-22 at the following link:

https://mde.maryland.gov/programs/Permits/AirManagementPermits/Pages/index.aspx

Interested persons may request a public hearing and/or submit written comments on the tentative determination. Requests for a public hearing must be submitted in writing and must be received by the Department no later than 20 days from the date of this notice. Written comments must be received by the Department no later than 30 days from the date of this notice.

Interested persons may request an extension to the public comment period. The extension request must be submitted in writing and must be received by the Department no later than 30 days from the date of this notice or within 5 days after the hearing (if a hearing is requested), whichever is later. The public comment period may only be extended one time for a 60-day period.

All requests for a public hearing, requests for an extension to the public comment period, and all written comments should be emailed to Ms. Shannon Heafey at shannon.heafey@maryland.gov.

Further information may be obtained by calling Ms. Shannon Heafey by email at shannon.heafey@maryland.gov or by phone at (410) 537-4433.

Christopher R. Hoagland, Director
Air and Radiation Administration

MARYLAND DEPARTMENT OF ENVIRONMENT
AIR AND RADIATION ADMINISTRATION

FACT SHEET AND TENTATIVE DETERMINATION
RITCHIE TRUCKING & EXCAVATING, INC.

PROPOSED INSTALLATION OF 150 TON PER HOUR SANDSTONE CRUSHING AND SCREENING PLANT POWERED BY TWO (2) DIESEL ENGINES

I. INTRODUCTION

The Maryland Department of the Environment (the "Department") received an application from Ritchie Trucking & Excavating, Inc. on June 17, 2022 for a Permit to Construct for a 150 ton per hour sandstone crushing and screening plant powered by two (2) diesel engines. The proposed installation will be located at Sand Bank Rd, Frostburg, MD 21532.

A notice was placed in Cumberland Times-News on September 14, 2022 and September 21, 2022 announcing an opportunity to request an informational meeting to discuss the application for a Permit to Construct. An informational meeting was not requested.

As required by law, all public notices were also provided to elected officials in all State, county, and municipality legislative districts located within a one mile radius of the facility's property boundary.

The Department has reviewed the application and has made a tentative determination that the proposed installation is expected to comply with all applicable air quality regulations. A notice will be published to provide the public with opportunities to request a public hearing and to comment on the application, the Department's tentative determination, the draft permit conditions, and other supporting documents. The Department will not schedule a public hearing unless a legitimate request is received.

If the Department does not receive any comments that are adverse to the tentative determination, the tentative determination will automatically become a final determination. If adverse comments are received, the Department will review the comments, and will then make a final determination with regard to issuance or denial of the permit. A notice of final determination will be published in a newspaper of general circulation in the affected area. The final determination may be subject to judicial review pursuant to Section 1-601 of the Environment Article, Annotated Code of Maryland.

II. CURRENT STATUS AND PROPOSED INSTALLATION

A. Current Status

The facility has a current State Permit to Operate for a 150 ton per hour sandstone crushing and screening plant, which includes one (1) diesel-powered crusher, two (2) diesel-powered screens, and is equipped with wet suppression. The plant was originally installed in 2007 but has not been operational since 2008. The facility also received a general permit for the installation and operation of one (1) concrete batch plant in May of 2022.

B. Proposed Installation

Ritchie Trucking & Excavating, Inc. is proposing to install one (1) sandstone crushing and screening plant with a throughput of 150 tons per hour, equipped with wet suppression systems, and consisting of one (1) Powerscreen Premiertrak 400X crusher powered by one (1) Tier 4 275 horsepower diesel engine, and one (1) Powerscreen Chieftain 2100X double-deck screen powered by one (1) Tier 4 110 horsepower diesel engine. This equipment is being installed to replace the existing sandstone crushing equipment at the facility.

III. APPLICABLE REGULATIONS

The proposed installation is subject to all applicable Federal and State air quality control regulations, including, but not limited to the following:

(a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subpart A (General Provisions) and Subpart OOO for Nonmetallic Mineral Processing Plants.

(b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in the submittals.

(c) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.

(d) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

(e) COMAR 26.11.09.05E, which limits visible emissions from the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:

(i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system;

(ii) The 10% opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:

(A) engines that are idling continuously when not in service: 30 minutes; and

(B) all other engines: 15 minutes.

(f) COMAR 26.11.09.07A(1), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.

(g) COMAR 26.11.15.05, which requires that the Permittee implement "Best Available Control Technology for Toxics" (T – BACT) to control emissions of toxic air pollutants.

(h) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions will unreasonably endanger human health.

IV. GENERAL AIR QUALITY

The U.S. Environmental Protection Agency (EPA) has established primary and secondary National Ambient Air Quality Standards (NAAQS) for six (6) criteria pollutants, i.e., sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, ozone, and lead. The primary standards were established to protect public health, and the secondary standards were developed to protect against non-health effects such as damage to property and vegetation.

The Department utilizes a statewide air monitoring network, operated in accordance with EPA guidelines, to measure the concentrations of criteria pollutants in Maryland's ambient air. The measurements are used to project statewide ambient air quality, and currently indicate that Allegany County complies with the NAAQS for sulfur dioxide, particulate matter, carbon monoxide, nitrogen dioxide, ozone, and lead.

With regard to toxic air pollutants (TAPs), screening levels (i.e., acceptable ambient concentrations for toxic air pollutants) are generally established at 1/100 of allowed worker exposure levels (TLVs)[1]. The Department has also developed additional screening levels for carcinogenic compounds. The additional screening levels are established such that continuous exposure to the subject TAP at the screening level for a period of 70 years is expected to cause an increase in lifetime cancer risk of no more than 1 in 100,000.

V. COMPLIANCE DEMONSTRATION AND ANALYSIS

The proposed installation must comply with all State imposed emissions limitations and screening levels, as well as the NAAQS. The Department has conducted an engineering and air quality review of the application. The emissions were projected based on U.S. EPA emission factors for crushing and screening plants and U.S. EPA engine tier emissions limits for diesel engines. The conservative U.S. EPA's SCREEN3 model was used to project the maximum ground level concentrations from the proposed facility, which were then compared to the screening levels and the NAAQS.

A. Estimated Emissions - The maximum emissions of air pollutants of concern from the proposed installation are listed in Table I.

B. Compliance with National Ambient Air Quality Standards - The maximum ground level concentrations for nitrogen dioxide, sulfur dioxide, carbon monoxide, and particulate matter based on the emissions from the proposed installation are listed in column 2 of Table II. The combined impact of the projected contribution from the proposed installation and the ambient background concentration for each pollutant shown in column 3 of Table II is less than the NAAQS for each pollutant shown in column 4.

C. Compliance with Air Toxics Regulations – The toxic air pollutant of concern that would be emitted from this installation is listed in column 1 of Table III. The predicted maximum off-site ambient concentration of crystalline silica is shown in column 4 of Table III, and is less than the corresponding existing facility screening level for the toxic air pollutant shown in column 2.

VI. TENTATIVE DETERMINATION

Based on the above information, the Department has concluded that the proposed installation will comply with all applicable Federal and State air quality control requirements. In accordance with the Administrative Procedure Act, Department has made a tentative determination to issue the Permit to Construct. Enclosed with the tentative determination is a copy of the draft Permit to Construct.

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[1] TLVs are threshold limit values (exposure limits) established for toxic materials by the American Conference of Governmental Industrial Hygienists (ACGIH). Some TLVs are established for short-term exposure (TLV – STEL), and some are established for longer-term exposure (TLV – TWA), where TWA is an acronym for time-weight average.

TABLE I
PROJECTED MAXIMUM EMISSIONS FROM THE PROPOSED INSTALLATION

POLLUTANT	PROJECTED MAXIMUM EMISSIONS FROM PROPOSED INSTALLATION	
	(lbs/day)	(tons/year)
Nitrogen Dioxide (NO_2)	2.0	1.0
Sulfur Dioxide (SO_2)	6.5	3.1
Carbon Monoxide (CO)	26.9	10.1
Volatile Organic Compounds (VOC)	0.9	0.5
Particulate Matter (PM_{10})	3.8	1.1

TABLE II
PROJECTED IMPACT OF EMISSIONS OF CRITERIA POLLUTANTS FROM THE PROPOSED INSTALLATION ON AMBIENT AIR QUALITY

POLLUTANTS	**MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS CAUSED BY EMISSIONS FROM PROPOSED PROCESS ($\mu g/m^3$)**	**BACKGROUND AMBIENT AIR CONCENTRATIONS ($\mu g/m^3$)***	**NATIONAL AMBIENT AIR QUALITY STANDARDS (NAAQS) ($\mu g/m^3$)**
Nitrogen Dioxide (NO_2)	annual avg.→ 1.36	annual avg.→ 3.56	annual avg.→ 100
Carbon Monoxide (CO)	8-hour max→ 115.76 1-hour max → 165.36	8-hr max.→ 343.6 1-hr max.→ 343.6	8-hr max.→ 10,000 1-hr max.→ 40,000
Sulfur Dioxide (SO_2)	24-hour max. → 21.64 annual avg. →4.33	24-hour max.→ 3.93 annual avg.→ 0.92	24-hour max.→ 366 annual avg.→ 78.5
Particulate Matter (PM_{10})	24-hr max → 32.88	24-hr max.→ 40	24-hr max.→ 150

*Background concentrations were obtained from Maryland air monitoring stations as follows:

NO_2, CO and SO_2 → Piney Run, Frostburg Reservoir in Garrett County
PM_{10} → Oldtown Fire Station in Baltimore City

TABLE III
PREDICTED MAXIMUM OFF-SITE AMBIENT CONCENTRATIONS FOR TOXIC AIR POLLUTANTS EMITTED FROM THE PROPOSED INSTALLATION

TOXIC AIR POLLUTANTS	SCREENING LEVELS ($\mu g/m^3$)	PROJECTED WORST-CASE FACILITY-WIDE EMISSIONS (lbs/hr)	PREDICTED MAXIMUM OFF-SITE GROUND LEVEL CONCENTRATIONS ($\mu g/m^3$)
Crystalline Silica	1-hour→ None 8-hour→ 1 Annual→ None	0.0033	1-hour→ None 8-hour→ 0.514 Annual→ None

The values represent maximum facility-wide emissions of toxic air pollutants during any 1-hour period of facility operation.

The values are based on worst-case emissions from the proposed facility and were predicted by EPA's SCREEN3 model, which provides conservative estimations concerning the impact of pollutants on ambient air quality.

DRAFT PERMIT

Larry Hogan Horacio Tablada

Air and Radiation Administration

1800 Washington Boulevard, Suite 720
Baltimore, MD 21230

☒ Construction Permit ☐ Operating Permit

PERMIT NO.:
001-0308-6-0304

DATE ISSUED:
[Date Issued]

PERMIT FEE:
$1500

EXPIRATION DATE:
In accordance with COMAR 26.11.02.04B

LEGAL OWNER & ADDRESS
Ritchie Trucking & Excavating, Inc.
19709 Winner View Terrace
Frostburg, MD 21532
Attention: Ms. Jody Ritchie, President

SITE
Ritchie Trucking & Excavating, Inc.
Sand Bank Rd
Frostburg, MD 21532
AI # 20927

SOURCE DESCRIPTION

This permit authorizes the installation of a 150 ton per hour sandstone crushing and screening plant equipped with wet suppression and two (2) diesel engines to replace existing crushing and screening equipment.

This permit supersedes all previous permits to construct issued to ARA Premises No. 001-0308.

This permit to construct also serves as a temporary permit to operate for a period of up to 180 days after initiating operation of the plant authorized by this permit.

This source is subject to the conditions described on the attached pages.

Program Manager

Director, Air and Radiation Administration

RITCHIE TRUCKING & EXCAVATING, INC.
BORDEN TRACT #1
PERMIT-TO-CONSTRUCT CONDITIONS
PERMIT No. 001-0308-6-0304

INDEX

This permit-to-construct is issued to cover the following registered installations:

ARA Registration Number	Description	Date of Installation
001-0308-6-0304	One (1) sandstone crushing and screening plant with a throughput of 150 tons per hour, equipped with wet suppression systems and consisting of one (1) Powerscreen Premiertrak 400X crusher powered by one (1) Tier 4 275 horsepower diesel engine, and one (1) Powerscreen Chieftain 2100X double-deck screen powered by one (1) Tier 4 110 horsepower diesel engine.	May 2022

Part A – General Provisions

(1) The following Air and Radiation Administration (ARA) permit-to-construct applications and supplemental information are incorporated into this permit by reference:

(a) Application for Processing or Manufacturing Equipment (Form 5) received at the Department on June 17, 2022.

(b) Toxic Air Pollutant (TAP) Emissions Summary and Compliance Demonstration (Form 5T) received at the Department on June 17, 2022.

(c) Two (2) Emission Point Data (Form 5EP) received at the Department on June 17, 2022.

(d) Two (2) Applications for Internal Combustion Engines (Form 44) received at the Department on June 17, 2022.

(e) Supplemental Information including vendor specifications, a site plan, emissions calculations, and zoning approval received at the Department on June 17, 2022.

If there are any conflicts between representations in this permit and representations in the applications, the representations in the permit shall govern. Estimates of dimensions, volumes, emissions rates, operating rates, feed rates and hours of operation included in the applications do not constitute enforceable numeric limits beyond the extent necessary for compliance with applicable requirements.

(2) Upon presentation of credentials, representatives of the Maryland Department of the Environment ("MDE" or the "Department") and the Allegany County Health Department shall at any reasonable time be granted, without delay and without prior notification, access to the Permittee's property and permitted to:

(a) inspect any construction authorized by this permit;

(b) sample, as necessary to determine compliance with requirements of this permit, any materials stored or processed on-site, any waste materials, and any discharge into the environment;

(c) inspect any monitoring equipment required by this permit;

(d) review and copy any records, including all documents required to be maintained by this permit, relevant to a determination of compliance with requirements of this permit; and

(e) obtain any photographic documentation or evidence necessary to determine compliance with the requirements of this permit.

(3) The Permittee shall notify the Department prior to increasing quantities and/or changing the types of any materials referenced in the application or limited by this permit. If the Department determines that such increases or changes constitute a modification, the Permittee shall obtain a permit-to-construct prior to implementing the modification.

(4) Nothing in this permit authorizes the violation of any rule or regulation or the creation of a nuisance or air pollution.

(5) If any provision of this permit is declared by proper authority to be invalid, the remaining provisions of the permit shall remain in effect.

(6) This permit supersedes all previous permits-to-construct issued under permit number 001-0308.

(7) Subsequent to issuance of this permit, the Department may impose additional and modified requirements that are incorporated into a State permit-to-operate issued pursuant to COMAR 26.11.02.13.

Part B – Applicable Regulations

(1) This source is subject to all applicable federal air pollution control requirements, including, but not limited to, the following:

(a) All applicable terms, provisions, emissions standards, testing, monitoring, record keeping, and reporting requirements included in federal New Source Performance Standards (NSPS) promulgated under 40 CFR 60, Subparts A and OOO for Nonmetallic Mineral Processing Plants.

(b) All notifications required under 40 CFR 60, Subparts A and OOO shall be submitted to both of the following:

The Administrator
Compliance Program
Maryland Department of the Environment
Air and Radiation Administration
1800 Washington Boulevard, STE 715
Baltimore, MD 21230

and

United States Environmental Protection Agency
Region III, Enforcement & Compliance Assurance Division
Air, RCRA and Toxics Branch (3ED21)
Four Penn Center
1600 John F. Kennedy Boulevard
Philadelphia, PA 19103-2852

(2) This source is subject to all applicable federally enforceable State air pollution control requirements including, but not limited to, the following regulations:

(a) COMAR 26.11.01.07C, which requires that the Permittee report to the Department occurrences of excess emissions.

(b) COMAR 26.11.02.04B, which states that a permit to construct or an approval expires if, as determined by the Department:

(i) Substantial construction or modification is not commenced within 18 months after the date of issuance of the permit or approval, unless the Department specifies a longer period in the permit or approval;

(ii) Construction or modification is substantially discontinued for a period of 18 months after the construction or modification has commenced; or

(iii) The source for which the permit or approval was issued is not completed within a reasonable period after the date of issuance of the permit or approval.

(c) COMAR 26.11.02.09A, which requires that the Permittee obtain a permit-to-construct if an installation is to be modified in a manner that would cause changes in the quantity, nature, or characteristics of emissions from the installation as referenced in this permit.

(d) COMAR 26.11.06.03C and D, which requires that the Permittee take reasonable precautions to prevent particulate matter from unconfined sources and materials handling and construction operations from becoming airborne.

(e) COMAR 26.11.06.12, which states that a person may not construct, modify, or operate, or cause to be constructed, modified, or operated, a New Source Performance Standard (NSPS) source in a manner which results or will result in violation of the provisions of 40 CFR, Part 60.

(f) COMAR 26.11.09.05E, which limits visible emissions from the diesel engines to 10% and 40% opacity during idle and operating modes, respectively. Exceptions to these opacity limits are as follows:

(i) The 10% opacity limit during idle mode does not apply for a period of 2 consecutive minutes after a period of idling of 15 minutes for the purpose of clearing the exhaust system;

(ii) The 10% opacity limit during idle mode does not apply to emissions resulting directly from a cold engine start-up and warm-up for the following maximum periods:

(A) engines that are idling continuously when not in service: 30 minutes; and

(B) all other engines: 15 minutes.

(iii) The 10% and 40% opacity limits do not apply while maintenance, repair, or testing is being performed by qualified mechanics.

(g) COMAR 26.11.09.07A(2), which limits the sulfur content of distillate fuel oils to not more than 0.3 percent by weight.

(3) This source is subject to all applicable State-only enforceable air pollution control requirements including, but not limited to, the following regulations:

(a) COMAR 26.11.02.013A(16), which requires that the Permittee obtain from the Department, and maintain and renew as required, a valid State Permit-to-Operate.

(b) COMAR 26.11.02.19C & D, which require that the Permittee submit to the Department annual certifications of emissions, and that the Permittee maintain sufficient records to support the emissions information presented in such submittals.

(c) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.

(d) COMAR 26.11.15.05, which requires that the Permittee implement “Best Available Control Technology for Toxics” (T – BACT) to control emissions of toxic air pollutants.

(e) COMAR 26.11.15.06, which prohibits the discharge of toxic air pollutants to the extent that such emissions would unreasonably endanger human health.

Part C – Construction Conditions

(1) Except as otherwise provided in this part, the crushing and screening plant shall be constructed in accordance with specifications included in the incorporated applications.

(2) The Permittee shall equip the crushing and screening plant with wet suppression systems to comply with the particulate matter handling requirements of COMAR 26.11.06.03C and D and 40 CFR 60, Subpart OOO.

Part D – Operating Conditions

(1) Except as otherwise provided in this part, all equipment associated with the crushing and screening plant covered by this permit shall be operated in accordance with specifications included in the application and any operating procedures recommended by equipment vendors unless the Permittee obtains from the Department written authorization for alternative operating procedures.

(2) The Permittee shall only process sandstone in the crushing and screening plant unless the Permittee obtains an approval from the Department to process other materials.

(3) Wet suppression systems shall be used as needed to comply with the fugitive particulate matter requirements of COMAR 26.11.06.03C and D, and the following opacity limits specified in 40 CFR, Part 60, Subpart OOO for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008:

(a) No more than 12 percent opacity from each crusher; and

(b) No more than 7 percent opacity from all other fugitive sources.

(4) The Permittee shall perform monthly periodic inspections to check that water is flowing to discharge spray nozzles in the wet suppression systems for affected facilities at nonmetallic mineral processing plants constructed, modified, or reconstructed on or after April 22, 2008. The Permittee must initiate corrective action within 24 hours and complete corrective action as expediently as practical if the Permittee finds that water is not flowing properly during an inspection of the water spray nozzles. **[Reference: 40 CFR §60.674(b)]**

(5) The engines associated with the crushing and screening plant shall be nonroad engines, as defined in 40 CFR §1068.3, unless the Permittee complies with the stationary engine requirements of 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ, as applicable, for each engine.

(6) The engines associated with the crushing and screening plant shall only burn diesel fuel with a maximum sulfur content of 0.3 percent by weight.

(7) Soils contaminated with petroleum-based fuels, other volatile organic compounds, or metals shall not be processed at the facility.

(8) The Permittee shall control fugitive dust on site, including from plant roads and stockpiles, by using water, approved chemical dust suppressants, or combination of both.

Part E – Notifications and Testing

(1) The Permittee shall submit written or electronic notification to the Department of the initial startup date of the crushing and screening plant within 15 days after such date. **[Reference: 40 CFR §60.7(a)(3) and §60.676(i)]**

(2) Not later than 180 days after the initial startup of the crushing and screening plant the Permittee shall demonstrate compliance with all applicable opacity standards. **[Reference: 40 CFR §60.11(b) and §60.672(b)]**

(3) The Permittee shall use Method 9 of Appendix A-4 to 40 CFR, Part 60 and the procedures in 40 CFR §60.11, with the following additions:

(a) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).

(b) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9 of Appendix A-3 of this part, Section 2.1) must be followed.

(c) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

[Reference: 40 CFR §60.675(c)(1)]

(4) The duration of the Method 9 (40 CFR, Part 60, Appendix A-4) observations must be 30 minutes (five 6-minute averages). Compliance with the applicable opacity standards must be based on the average of the five 6-minute averages. **[Reference: 40 CFR §60.675(c)(3)]**

(5) The Permittee shall submit notification of the intended date of the required Method 9 observations to the Department at least 30 days prior to that date.

(6) Within 45 days following the required Method 9 observations, the Permittee shall submit the results to the Department.

Part F – Record Keeping and Reporting

(1) The Permittee shall maintain for at least five (5) years, and shall make available to the Department upon request, records of the following information:

(a) The amount of materials processed in the crushing and screening plant in tons per month;

(b) The hours of operation of each engine for each operating day;

(c) The amount of diesel fuel burned in the diesel engines each month;

(d) All opacity observation test results;

(e) A copy of the notification of the initial start-up of the crushing and screening plant;

(f) Equipment information or vendor literature for the crushing and screening plant;

(g) A log of each periodic inspection of the wet suppression systems associated with the crushing and screening plant including the dates and any corrective actions taken. **[Reference: 40 CFR §60.674(b) and §60.674(b) and §60.676(b)(1)]**

(2) The Permittee shall maintain at the facility for at least five (5) years, and shall make available to the Department upon request, records necessary to support annual certifications of emissions and demonstrations of compliance for toxic air pollutants. Such records shall include, if applicable, the following:

(a) Mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each registered source of emissions;

(b) Accounts of the methods and assumptions used to quantify emissions;

(c) All operating data, including operating schedules and production data, that were used in determinations of emissions;

(d) Amounts, types, and analyses of all fuels used;

(e) Any records, the maintenance of which is required by this permit or by State or federal regulations, that pertain to the operation and maintenance of continuous emissions monitors, including:

(i) all emissions data generated by such monitors;

(ii) all monitor calibration data;

(iii) information regarding the percentage of time each monitor was available for service; and

(iv) information concerning any equipment malfunctions.

(f) Information concerning operation, maintenance, and performance of air pollution control equipment and compliance monitoring equipment, including:

(i) identifications and descriptions of all such equipment;

(ii) operating schedules for each item of such equipment;

(iii) accounts of any significant maintenance performed;

(iv) accounts of all malfunctions and outages; and

(v) accounts of any episodes of reduced efficiency.

(g) Limitations on source operation or any work practice standards that significantly affect emissions; and

(h) Other relevant information as required by the Department.

(3) The Permittee shall submit to the Department by April 1 of each year a certification of emissions for the previous calendar year. The certifications shall be prepared in accordance with requirements, as applicable, adopted under COMAR 26.11.01.05 – 1 and COMAR 26.11.02.19D.

(a) Certifications of emissions shall be submitted on forms obtained from the Department.

(b) A certification of emissions shall include mass emissions rates for each regulated pollutant, and the total mass emissions rate for all regulated pollutants for each of the facility's registered sources of emissions.

(c) The person responsible for a certification of emissions shall certify the submittal to the Department in the following manner:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

(4) The Permittee shall submit to the Department by April 1 of each year a written certification of the results of an analysis of emissions of toxic air pollutants from the Permittee's facility during the previous calendar year. Such analysis shall include either:

(a) A statement that previously submitted compliance demonstrations for emissions of toxic air pollutants remain valid; or

(b) A revised compliance demonstration, developed in accordance with requirements included under COMAR 26.11.15 & 16, that accounts for changes in operations, analytical methods, emissions determinations, or other factors that have invalidated previous demonstrations.

(5) The Permittee shall report, in accordance with requirements under COMAR 26.11.01.07, occurrences of excess emissions to the Compliance Program of the Air and Radiation Administration.

Part G – Temporary Permit-to-Operate Conditions

(1) This permit-to-construct shall also serve as a temporary permit-to-operate that confers upon the Permittee authorization to operate the crushing and screening plant for a period of up to 180 days after initiating operation.

(2) The Permittee shall provide the Department with written or electronic notification of the date on which operation of the crushing and screening plant is initiated. Such notification shall be provided within 15 business days of the date to be reported.

(3) During the effective period of the temporary permit-to-operate the Permittee shall operate the new installation as required by the applicable terms and conditions of this permit-to-construct, and in accordance with operating procedures and recommendations provided by equipment vendors.

(4) The Permittee shall submit to the Department an application for a State permit-to-operate no later than 60 days prior to expiration of the effective period of the temporary permit-to-operate.

MARYLAND DEPARTMENT OF THE ENVIRONMENT

AIR AND RADIATION ADMINISTRATION

SUPPLEMENTAL INFORMATION REFERENCES

The Code of Maryland Regulations (COMAR) is searchable by COMAR citation at the following Division of State Documents website:
http://www.dsd.state.md.us/COMAR/ComarHome.html

The Code of Federal Regulations (CFR), including New Source Performance Standards (NSPS) at 40 CFR, Part 60 and National Emission Standards for Hazardous Air Pollutants (NESHAP) at 40 CFR, Parts 61 and 63, is searchable by CFR citation at the following U.S. Government Publishing Office website:
http://www.ecfr.gov

Information on National Ambient Air Quality Standards (NAAQS) is located at the following U.S. Environmental Protection Agency (EPA) website:
https://www.epa.gov/criteria-air-pollutants/naaqs-table

Information on Maryland's Ambient Air Monitoring Program is located at the following Maryland Department of the Environment website:
http://mde.maryland.gov/programs/Air/AirQualityMonitoring/Pages/index.aspx

Information on the U.S. EPA's Screen3 computer model and other EPA-approved air dispersion models is located at the following U.S. EPA website:
http://www.epa.gov/scram001/dispersion_screening.htm

Information on the U.S. EPA TANKS Emission Estimation Software is located at the following U.S. EPA website:
http://www.epa.gov/ttn/chief/software/tanks/index.html

Information on the U.S. EPA Emission Factors and AP-42 is located at the following U.S. EPA website:
https://www.epa.gov/air-emissions-factors-and-quantification/ap-42-compilation-air-emission-factors