Edit: Application Tracking

Air Case ID: 13266 Permit Id: 3890

FIN No.: A0394

Company Name: ROUND MOUNTAIN GOLD CORPORATION

HA Basin No: 137B **Increment Tracked** ☐

Permit No: AP10413955.01 * Select a Permit No

Date App. Received: 10/19/2026 *

Permit Writer: Not Assigned (NA) *

Case Type: Class 2 Revision w/o Public Notice *

Default ODS Date: 11/02/2026 *

Actual ODS Date:

Date App. to be Closed: 01/01/2027 *

Stop Days: **Actual Date App. to be Closed:** 1/1/2027

App. Incomplete? ☐

Date App. Closed:

Fee Paid ($): 7500 *

Case Description:

Comments:

Flag (For Class 4) : None

Update Cancel

RECEIVED
OCT 19 2026
ENVIRONMENTAL PROTECTION

KINROSS Round Mountain

Round Mountain Gold Corporation
A Kinross company
1 Smoky Valley Mine Road, PO Box 480
Round Mountain, Nevada, USA 89045
phone: (775) 377-2366
fax: (775) 377-3240

October 13, 2026

RECEIVED
OCT 19 2026
BAPC/BAQP

Ms. Tanya Soleta
Supervisor, Minor Source Permitting
Bureau of Air Pollution Control
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, NV 89701

Subject: **Revision Application**
Round Mountain Gold Corporation – Smoky Valley Common Operations
Class II Air Quality Operating Permit AP1041-3955.01 (FIN A0394)

Dear Ms. Soleta:

Round Mountain Gold Corporation (RMGC) is pleased to submit the attached application to revise Class II Air Quality Operating Permit No. AP1041-3955.01. With this revision, RMGC is proposing to add a Cemented Batch Plant, a Metal Removal System, and an emergency diesel-fired generator to the permit, as well as add categorically insignificant sources to the non-permit equipment list. The details of the proposed changes are provided in the application forms and appendices.

An electronic payment was made on October 13, 2026, in the amount of $7,500 to cover the required processing fee. The confirmation number for the electronic payment is 791911410353691370308O.

If you have any questions or require any additional information, please contact Alex Thatcher at (775) 377-3365 or Alex.Hinshaw@Kinross.com.

Sincerely,
Round Mountain Gold Corporation

Ben Scholz
Interim General Manager
Round Mountain Gold Corporation – Smoky Valley Common Operations

Enc: Class II AQ Operating Permit No. AP1041-3955.01 Revision Application

CC: Jacquelyn Nutt (Jacquelyn.Nutt@Kinross.com)
Nina Astillero (Nina.Astillero@Kinross.com)
Ashlee Zelek (Ashlee.Zelek@Kinross.com)
Matthew McCarty (Matthew.McCarty@Kinross.com)
Holly Saucier (Holly.Saucier@airsci.com)

\\rmo-fs-03\Environmental\AirQuality\3-Class 2 Permit AP1041-3955\3-Correspondence\2026\2026-1013 Class II AQOP AP1041-3955.01 Revision Application - CAP, MRS, and Generator

Alex Thatcher

From: Alex Thatcher
Sent: Tuesday, October 13, 2026 10:27 AM
To: Alex Thatcher
Subject: FW: <External> Application Fee payment confirmation

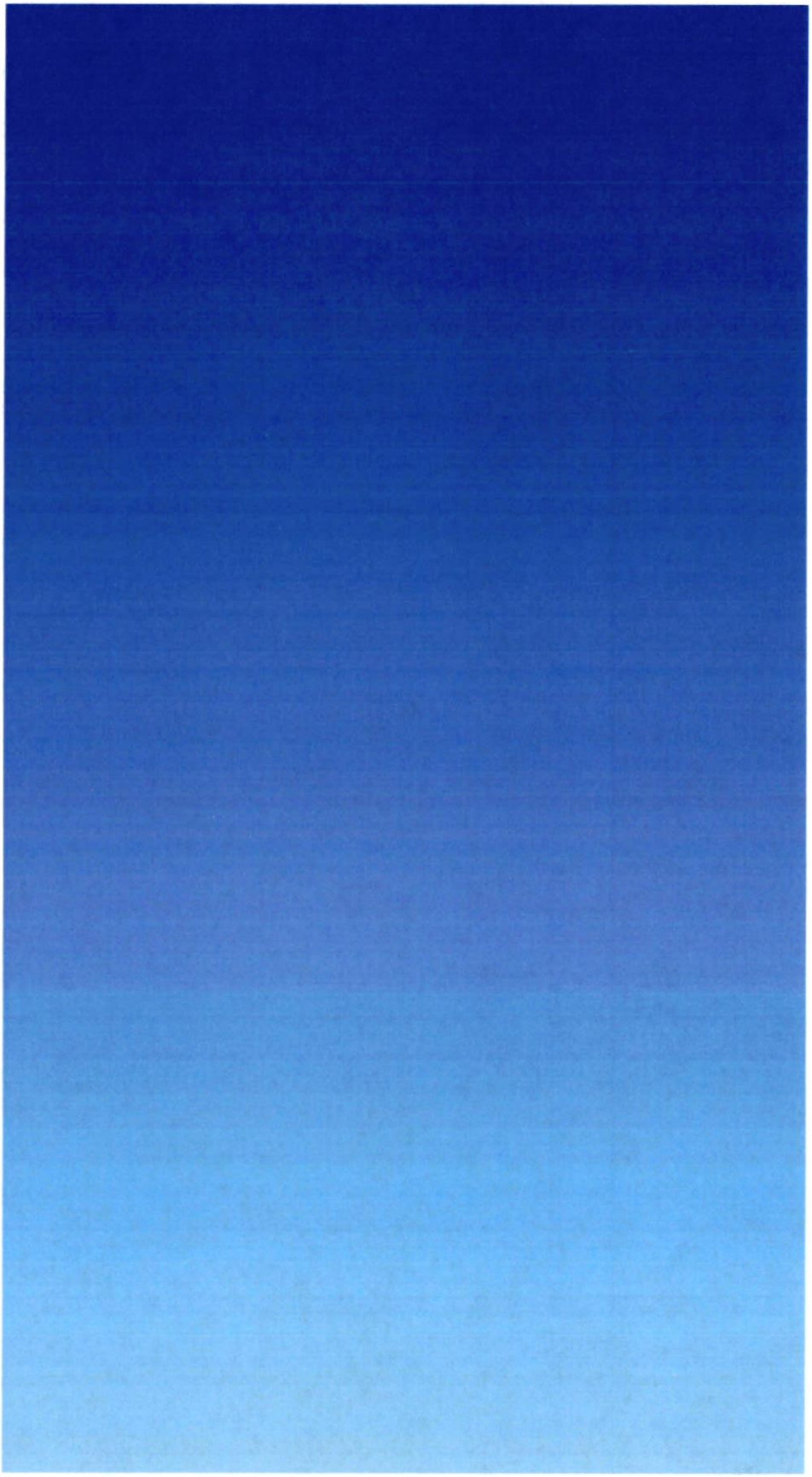
From: ePayments@ndep.nv.gov <ePayments@ndep.nv.gov>
Sent: Tuesday, October 13, 2026 10:10 AM
To: Stephanie Naegle <Stephanie.Naegle@Kinross.com>
Subject: <External> Application Fee payment confirmation

Thank you for using the NDEP ePayment System.

Your Application Fee payment has been successfully processed!

PLEASE PRINT AND RETAIN THIS CONFIRMATION FOR YOUR RECORDS!

Company Name:	Rmgc
Company Address:	Round Mountain Gold Corp/Smoky Vlly Common Op
	Round Mountain NV 89045
Contact First Name:	Stephanie
Contact Last Name:	Naegle
Telephone:	(775) 377-3327
Payment Type:	Application Fee
Bureau:	Air Pollution Control
Application Type:	Class Ii Operating Permit Minor Stationary Source, Renewal Or Revision (21-50 Emission Units and Insignificant Activities)
Fixed Fee Amount:	$7,500.00
Notes:	AP1041-3955 Permit Mod Fee Add cemented batch plant, metal removal system, & generator for UG
Confirmation E-mail:	stephanie.naegle@kinross.com
Payment Amount:	$7,500.00
Today's Date:	10/13/2026
Confirmation Number:	7919114103536913703080
Settlement Date:	10/13/2026
Total Amount:	$7,500.00



AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Class II Air Quality Operating Permit No. AP1041-3955.01 Revision Application

PREPARED FOR:
ROUND MOUNTAIN GOLD CORPORATION

PROJECT NO. 99-217-1
OCTOBER 2026

Class II Air Quality Operating Permit Application Form

Facility Name: Round Mountain Gold Corporation – Smoky Valley Common Operations

Existing Facility ID: A0394

Existing Class II AQOP: AP1041-3955.01

Type of Facility: Gold Mine

Number of Units (including IA's) in Facility: 258

If a Revision, Number of Units (including IA's) Affected in Action: 27

Application Type:

☐ **New AQOP**

☒ **Revision of Existing AQOP**

☐ **Renewal of Existing AQOP**

NDEP

Please Submit Application to:

Nevada Division of Environmental Protection
Bureau of Air Pollution Control, Class II Permitting Branch
901 South Stewart Street, Suite 4001
Carson City, Nevada 89701-5249
Phone (775) 687-9349

August 2026
(Ver. 7)

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Appendix 1: Process Narrative, Process Flow Diagrams, and Maps
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IMPORTANT INFORMATION

- The Application packet contains:
  - General Company Information Form
  - Industrial Process Form
  - Combustion Equipment Form
  - Storage Silo Form
  - Liquid Storage Tanks Form
  - Insignificant Activities Form
  - Facility-Wide Potential to Emit Table
  - Surface Area Disturbance Form
  - Plant Boundary Coordinates Form
  - Plant Building Parameters Form
  - Application Certification Document with Required Attachments

- Please see the Guidance Document for additional instructions on how to complete the application.
- A printed copy of the application must be submitted (mailed or hand delivered), along with an electronic version.
- The application filing fee required by Nevada Administrative Code (NAC) 445B.327 must be submitted with the completed application. Checks must be made payable to the "Nevada State Treasurer, Environmental Protection" with "BAPC" noted in the memo line. Fees may also be submitted electronically at https://epayments.ndep.nv.gov/.
- This application shall be used for new Class II sources, revisions to existing Class II Air Quality Operating Permits, and the renewal of Class II Air Quality Operating Permits. This application packet is not for use for an Administrative Renewal, Administrative Amendment, a general permit, a stand-alone Surface Area Disturbance (SAD) permit, nor for a Request for Change of Location Approval permit for a temporary source.
- An application for a Class II Air Quality Operating Permit must be signed by the Responsible Official, as defined in NAC 445B.156. The certification/signature page is the last page of the application and the original "wet" signature must be provided.
- All items in the application must be addressed. If an item does not apply "N/A" or similar notation must be entered in the appropriate blank. All other information must be provided. Incomplete applications will be returned to the Responsible Official within 10 working days of receipt of the application.
- For the renewal of a Class II Operating Permit, a complete application and corresponding processing fee must be submitted in accordance with NAC 445B.3473, prior to the expiration date of the current permit. The BAPC suggests that the application be submitted well in advance of the timeline outlined in NAC 445B.3473 to ensure the application is deemed complete.
- If the facility applies for a permit that has not previously held a Class I of Class II operating permit, is located within 1,000 feet of a school, hospital, or residential area, or the Director determines that the change to the stationary source results in an increase in allowable emissions that exceeds the thresholds in NAC 445B.3457, the BAPC shall establish a 30-day period for public participation.

GENERAL COMPANY INFORMATION FORM

1. **Briefly describe the permitted facility's process and include the Standard Industrial Classification (SIC) number and North American Industry Classification System (NAICS). Add details in the attached Process Narrative.**

   The Round Mountain facility is an open pit gold mine, milling, and processing facility classified by SIC code 1041, NAICS 212220.

2. **Company Name and Address that are to appear on the operating permit [NAC 445B.295(1)]:**

   Name: **Round Mountain Gold Corporation – Smoky Valley Common Operations**
   Address: **P.O. Box 480**
   City: **Round Mountain**
   State: **NV** Zip Code: **89045**

3. **Owner's Name and Address [NAC 445B.295(1)]:**

   Name: **Round Mountain Gold Corporation – Smoky Valley Common Operations**
   Address: **P.O. Box 480**
   City: **Round Mountain**
   State: **NV** Zip Code: **89045**

4. **Facility Name and Address, if different from #2 [NAC 445B.295(1)]:**

   Name: **Same as #2**
   Address:
   City:
   State: Zip Code:

5. **If records are required under the operating permit will be kept at a location other than the facility, specify that location [NAC 445B.295(7)]:**

   Name: **N/A. Records will be kept on site.**
   Address:
   City:
   State: Zip Code:

GENERAL COMPANY INFORMATION FORM (continued)

6. Responsible Official Name, Title and Mailing Address [NAC 445B.295(1)]:

Name:	**Ben Scholz**
Title:	**Interim General Manager**
Address:	**P.O. Box 480**
City:	**Round Mountain**
State:	**Nevada** Zip Code: **89045**
Phone Number:	**(303) 260-8938**
Fax Number:	**N/A**
E-mail Address:	**ben.scholz@kinross.com**

Is this a new Responsible Official? ☐ Yes ☒ No

If yes, and the Responsible Official (RO) does not meet the definition under NAC 445B.156 then please fill out the "Responsible Official Identification/Designation/Change Request Form" and mail it in. (https://ndep.nv.gov/air/permitting/download-permit-forms)

7. Plant Manager or other appropriate Contact Name, Title and Address [NAC 445B.295(1)]:

Name:	**Alex Thatcher**
Title:	**Environmental Engineer**
Address:	**P.O. Box 480**
City:	**Round Mountain**
State:	**Nevada** Zip Code: **89045**
Phone Number:	**(775) 377-3365**
Fax Number:	**N/A**
E-mail Address:	**Alex.Hinshaw@kinross.com**

8. Location and Driving Directions to the Facility (For Example: From Elko, Nevada, 4 miles south of I-80 at xx Interchange) [NAC 445B.295(8)]:

Hydrographic Basin (HA) Number: **137B and 137A**

HA Basin Name: **Smoky Valley/Northern Part and Tonopah Flat**

Township(s):		Range(s):		Section(s):
9	N;	**43**	E;	**1-3, 10-12, 14, and 15**
9	N	**44**	E	**6**
10	N	**43**	E	**11-14, 23-26, 34-36**
10	N	**44**	E	**4-8, 17-20, 29-31**
11	N	**43**	E	**25-26**
11	N	**44**	E	**28-33**

UTM Coordinates for the Front Gate of the Facility (NAD 83, Zone 11):

4,284,343 m North; **491,174** m East;

Nearest City: **Tonopah, Nevada**

County: **Nye**

Driving Directions from nearest city to the Facility: **From Tonopah, Nevada, go east 5.4 miles on U.S. 6, then north on NV-376 for 47.16 miles, then east on Smoky Valley Mine Road for 0.9 miles.**

GENERAL COMPANY INFORMATION FORM (continued)

9. **Emission Cap Requested [NAC 445B.070 and NAC 445B.296(2)]:**

☐ Yes ☒ No (If yes, provide details in the attached Process Narrative)

10. **Important note** for completing the Industrial Process, Combustion Equipment, Storage Silo, and Liquid Storage Tank Application forms: forms need to be included for permitted emission units and insignificant activities. Provide additional forms as needed. All items in the application must be addressed. If an item does not apply then "N/A" or similar notation must be entered in the appropriate blank (TBD, unknown, etc.).

11. **Is the Facility located within 1,000 feet of a school, hospital, or residential area?**
☐ Yes ☒ No

12. **Does the Facility require controls or other limit restrictions to remain a Class II source?**
☒ Yes ☐ No

13. **Has the facility provided modeling for each non-combustion baghouse individually? (See Testing Determination System for Baghouses Guidance Document)**
☐ Yes ☒ No

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **44: Cemented Batch Plant - Hopper Loading**

Emission Unit Description: **Loader Feed to Feed Chute**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.038**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-011-08**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**4.0**
	Drop Height *if applicable*	feet	**10.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**6.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,986**
	UTM Easting (NAD 83, Zone 11)	m	**491,199**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **45: Cemented Batch Plant - Screen Feed Transfers**

Emission Unit Description: **Feed Chute to Alluvium Feeder**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.039**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**3.0**
	Drop Height *if applicable*	feet	**6.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**4.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,986**
	UTM Easting (NAD 83, Zone 11)	m	**491,199**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **45: Cemented Batch Plant - Screen Feed Transfers**

Emission Unit Description: **Alluvium Feeder to Screen Feed Incline Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.040**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**3.0**
	Drop Height *if applicable*	feet	**15.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,994**
	UTM Easting (NAD 83, Zone 11)	m	**491,205**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **46: Cemented Batch Plant - Screening System**

Emission Unit Description: **Screen (IN: Screen Feed Incline Conveyor; OUT: Undersize Incline Conveyor, Midsize Incline Conveyor, and Oversize Stacker Conveyor)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.041**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-02**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**3.0**
	Drop Height *if applicable*	feet	**15.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**6.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,971**
	UTM Easting (NAD 83, Zone 11)	m	**491,240**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Midsize Incline Conveyor to Midsize Radial Stacker**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.042**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**25.0**
	Drop Height *if applicable*	feet	**50.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,963**
	UTM Easting (NAD 83, Zone 11)	m	**491,249**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Undersize Incline Conveyor to Undersize Radial Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.043**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**3.0**
	Drop Height *if applicable*	feet	**12.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,012**
	UTM Easting (NAD 83, Zone 11)	m	**491,277**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Undersize Radial Conveyor to Screened Alluvium Chute**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.044a**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**3.0**
	Drop Height *if applicable*	feet	**12.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,046**
	UTM Easting (NAD 83, Zone 11)	m	**491,302**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Undersize Radial Conveyor to Stockpile**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.044b**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**15.0**
	Drop Height *if applicable*	feet	**30.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,038**
	UTM Easting (NAD 83, Zone 11)	m	**491,252**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Oversize Stacker Conveyor to Stockpile**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.045**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**25.0**
	Drop Height *if applicable*	feet	**50.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,927**
	UTM Easting (NAD 83, Zone 11)	m	**491,206**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Midsize Radial Stacker to Stockpile**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.046**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**15.0**
	Drop Height *if applicable*	feet	**30.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,284,927**
	UTM Easting (NAD 83, Zone 11)	m	**491,265**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Screened Alluvium Chute to Surge Bin Feed Incline Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.047**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**1.0**
	Drop Height *if applicable*	feet	**8.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,046**
	UTM Easting (NAD 83, Zone 11)	m	**491,302**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Surge Bin Feed Incline Conveyor to Screened Alluvium Surge Bin**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.048**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**2.0**
	Drop Height *if applicable*	feet	**10.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,114**
	UTM Easting (NAD 83, Zone 11)	m	**491,327**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Screened Alluvium Surge Bin to Screened Alluvium Feeder**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.049**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**1.0**
	Drop Height *if applicable*	feet	**6.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,114**
	UTM Easting (NAD 83, Zone 11)	m	**491,327**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Screened Alluvium Feeder to HPGR Feed Incline Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.050**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**1.0**
	Drop Height *if applicable*	feet	**6.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,117**
	UTM Easting (NAD 83, Zone 11)	m	**491,328**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **47: Cemented Batch Plant - Screened Material Transfers**

Emission Unit Description: **Loader Feed to HPGR Feed Incline Conveyor (via Hopper)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.051**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**4.0**
	Drop Height *if applicable*	feet	**10.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**6.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,123**
	UTM Easting (NAD 83, Zone 11)	m	**491,321**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **48: Cemented Batch Plant - Crusher**

Emission Unit Description: **HPGR Crusher (IN: HPGR Feed Incline Conveyor; OUT: Ground Alluvium Conveyor)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.071**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-03**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**N/A**
	Drop Height *if applicable*	feet	**N/A**
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**N/A**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,073**
	UTM Easting (NAD 83, Zone 11)	m	**491,355**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**30.0**
	Stack Inside Diameter	feet	**1.0**
	Stack Temperature	°F	**Ambient**
	Stack Exit Velocity	feet/second	**223**
	Actual Gas Volume Flow Rate	acfm	**10,500**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**10,500**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **49: Cemented Batch Plant - Crushed Material Transfers**

Emission Unit Description: **Ground Alluvium Conveyor to Stockpile**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.052**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**10.0**
	Drop Height *if applicable*	feet	**20.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,085**
	UTM Easting (NAD 83, Zone 11)	m	**491,378**
Operating Parameters	Material Type Processed		**Aggregate**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **50: Cemented Batch Plant Mixing**

Emission Unit Description: **Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.072**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-011-09**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**N/A**
	Drop Height *if applicable*	feet	**N/A**
	The drop height is measured from the ☐ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**N/A**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,057**
	UTM Easting (NAD 83, Zone 11)	m	**491,367**
Operating Parameters	Material Type Processed		**Aggregate/Cement**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**30.0**
	Stack Inside Diameter	feet	**1.0**
	Stack Temperature	°F	**Ambient**
	Stack Exit Velocity	feet/second	**23.3**
	Actual Gas Volume Flow Rate	acfm	**1,100**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**1,100**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

STORAGE SILO APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **51: Cemented Batch Plant Cement Storage Silo**

Emission Unit Description: **Cement Silo Loading (Unloading to Mixer via Fully Enclosed Loss-in-Weight Feeder and Cement Screw Feeder)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐**Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data	
			Silo Loading	**Silo Unloading**
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.073**	**N/A (Unloading through fully enclosed transfer)**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-011-07**	
	Manufacturer		**Not Specified**	
	Date Manufactured		**Not Specified**	
	Model Number		**Not Specified**	
	Equipment Dimensions (LxWxH)	feet	**Not Specified**	
	Drop Dimensions (LxWxH) *if applicable*	feet	**Not Specified**	
	Emissions Released Inside building?	yes/no	**No**	
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,050**	
	UTM Easting (NAD 83, Zone 11)	m	**491,363**	
Operating Parameters	Material Type Processed		**Cement**	
	Batch Process *if applicable*	*unit*/batch	**N/A**	
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**	
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**	
Control Equipment	Manufacturer		**Not Specified**	
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**	
Stack Parameters	Stack Height	feet	**50.0**	
	Stack Inside Diameter	feet	**1.0**	
	Stack Temperature	°F	**Ambient**	
	Stack Exit Velocity	feet/second	**21.2**	
	Actual Gas Volume Flow Rate	acfm	**1,000**	
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**1,000**	
	Stack Release Type	Vertical/Capped/ Horizontal	**Vertical**	

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **52: Cemented Batch Plant Emergency Generator**

Emission Unit Description: **Cemented Batch Plant Diesel-Fired Emergency Generator (≤2,898 kW, mfd. 2006 or newer)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ **Yes** ☐ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	**S2.074**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**2-02-001-02**
	Manufacturer		**Not Specified**
	Date Manufactured		**2006 or newer**
	Model and Serial Number		**Not Specified**
	Emissions Released Inside building?	yes/no	**No**
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		**ECI**
	Date Constructed	month/day/yr	**Not Specified**
	Cylinder Displacement	liter/cylinder	**4.9**
	EPA Tier #		**2**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,077**
	UTM Easting (NAD 83, Zone 11)	m	**491,387**
Operating Parameters /Fuel Usage	Fuel Type		**Diesel**
	Fuel Flow Meter Installed?	yes/no/NA	**No**
	Sulfur Content	%	**0.0015**
	Heat Content	Btu/gal	**140,000**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**11.0**
	Stack Inside Diameter	feet	**0.67**
	Stack Temperature	°F	**897**
	Stack Exit Velocity	feet/second	**1,037**
	Actual Gas Volume Flow Rate	acfm	**21,725**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**6,744**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **Cemented Batch Plant Diesel-Fired Emergency Generator (≤2,898 kW, mfd. 2006 or newer)**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Fuel consumption will be measured by multiplying maximum fuel consumption by hours of operation.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **53: Metal Removal System Loading**

Emission Unit Description: **Loader to Apron Feeder (via Static Grizzly)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ **Yes** ☐ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.053**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**4.0**
	Drop Height *if applicable*	feet	**20.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**6.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,283,169**
	UTM Easting (NAD 83, Zone 11)	m	**491,973**
Operating Parameters	Material Type Processed		**Ore**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **53: Metal Removal System Material Transfers**

Emission Unit Description: **Apron Feeder Discharge to Belt Conveyor #1**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ **Yes** ☐ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.054**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**2.0**
	Drop Height *if applicable*	feet	**12.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**4.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,283,146**
	UTM Easting (NAD 83, Zone 11)	m	**491,953**
Operating Parameters	Material Type Processed		**Ore**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **53: Metal Removal System Material Transfers**

Emission Unit Description: **Belt Conveyor #1 Discharge to Belt Conveyor #2**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ **Yes** ☐ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.055**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**2.0**
	Drop Height *if applicable*	feet	**12.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,283,166**
	UTM Easting (NAD 83, Zone 11)	m	**491,924**
Operating Parameters	Material Type Processed		**Ore**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **53: Metal Removal System Material Transfers**

Emission Unit Description: **Belt Conveyor #2 Discharge to Stacker Conveyor**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☒ **Yes** ☐ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.056**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**2.0**
	Drop Height *if applicable*	feet	**12.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,283,144**
	UTM Easting (NAD 83, Zone 11)	m	**491,903**
Operating Parameters	Material Type Processed		**Ore**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours/day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours/day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**Not Specified**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **53: Metal Removal System Stacking**

Emission Unit Description: **Stacker Conveyor Discharge to Stockpile**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity ☐ **Yes** ☒ **No** If yes, identify exemption regulation: **N/A**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in attached Process Narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**PF1.057**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-05-020-06**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model Number		**Not Specified**
	Equipment Dimensions (LxWxH)	feet	**Not Specified**
	Drop Length *if applicable*	feet	**15.0**
	Drop Height *if applicable*	feet	**30.0**
	The drop height is measured from the ☒ top of the drop length ☐ middle of the drop length ☐ bottom of the drop length, in reference to the ground. *Choose one, if applicable*		
	Drop Horizontal Dimension 1 *if applicable*	feet	**3.0**
	Drop Horizontal Dimension 2 *if applicable*	feet	**N/A**
	Emissions Released Inside building?	yes/no	**No**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,283,179**
	UTM Easting (NAD 83, Zone 11)	m	**491,825**
Operating Parameters	Material Type Processed		**Ore**
	Batch Process *if applicable*	*unit* /batch	**N/A**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

1. How will throughput be monitored for this emission unit? Identify if the throughput will be monitored at this emission unit or at another emission unit and the method (e.g. weigh belt).
   Throughput will be measured using a weightometer.

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **IA: Insignificant Activities**

Emission Unit Description: **CBP MUA Unit**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**

Insignificant Activity: ☒ **Yes** ☐ **No** If yes, identify exemption regulation: **NAC 445B.288.2(e)**

Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	**IA1.131**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**1-02-010-02**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model and Serial Number		**Not Specified**
	Emissions Released Inside building?	yes/no	**No**
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		**N/A**
	Date Constructed	month/day/yr	**N/A**
	Cylinder Displacement	liter/cylinder	**N/A**
	EPA Tier #		**N/A**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,067**
	UTM Easting (NAD 83, Zone 11)	m	**491,367**
Operating Parameters /Fuel Usage	Fuel Type		**Propane**
	Fuel Flow Meter Installed?	yes/no/NA	**No**
	Sulfur Content	%	**0.0185**
	Heat Content	Btu/gal	**91,500**
	Start Time *if operating less than 24 hours day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **CBP MUA Unit**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Fuel consumption will be measured by multiplying maximum fuel consumption by hours of operation.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT

System Number and Name: **IA: Insignificant Activities**
Emission Unit Description: **CBP Building Heaters (8)**

Alternative Operating Scenario: ☐ **Yes** ☒ **No**
Insignificant Activity: ☒ **Yes** ☐ **No** If yes, identify exemption regulation: **NAC 445B.288.2(e)**
Subject to a Federal Regulation (40 CFR Part 60, 61, or 63): ☐ **Yes** ☒ **No** If yes, identify in process narrative.

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001	**IA1.132**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**1-02-010-02**
	Manufacturer		**Not Specified**
	Date Manufactured		**Not Specified**
	Model and Serial Number		**Not Specified**
	Emissions Released Inside building?	yes/no	**No**
For Reciprocating Internal Combustion Engines (RICE) Only	Type of Engine Code (See Notes*)		**N/A**
	Date Constructed	month/day/yr	**N/A**
	Cylinder Displacement	liter/cylinder	**N/A**
	EPA Tier #		**N/A**
Location of Emission Source	UTM Northing (NAD 83, Zone 11)	m	**4,285,067**
	UTM Easting (NAD 83, Zone 11)	m	**491,367**
Operating Parameters /Fuel Usage	Fuel Type		**Propane**
	Fuel Flow Meter Installed?	yes/no/NA	**No**
	Sulfur Content	%	**0.0185**
	Heat Content	Btu/gal	**91,500**
	Start Time *if operating less than 24 hours/day*	hour:minute	**N/A**
	End Time *if operating less than 24 hours/day*	hour:minute	**N/A**
Control Equipment	Manufacturer		**N/A**
	Manufacturer's Guarantee Included? *If "yes", attach manufacturer's sheets immediately after these forms.*	yes/N/A	**N/A**
Stack Parameters	Stack Height	feet	**N/A**
	Stack Inside Diameter	feet	**N/A**
	Stack Temperature	°F	**N/A**
	Stack Exit Velocity	feet/second	**N/A**
	Actual Gas Volume Flow Rate	acfm	**N/A**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**N/A**
	Stack Release Type		☐ vertical ☐ capped ☐ horizontal

Notes*

Code	Description	Code	Description
LU	Limited Use	E-SI	Emergency Spark Ignition
LDG	Landfill/Digester Gas	SI4SRB	Spark Ignition 4-Stroke Rich Burn
NECI	Non-Emergency Compression Ignition	SI4SLB	Spark Ignition 4-Stroke Lean Burn
ECI	Emergency Compression Ignition	SI2SLB	Spark Ignition 2-Stroke Lean Burn

COMBUSTION EQUIPMENT APPLICATION FORM
CLASS II OPERATING PERMIT (continued)

Emission Unit Description: **CBP Building Heaters (8)**

1. How will fuel consumption be monitored for this emission unit? (e.g. maximum fuel consumption rate supplied by manufacturer, fuel flow meter).
   Fuel consumption will be measured by multiplying maximum fuel consumption by hours of operation.

2. Does this unit have the capability to bypass air pollution controls in an emergency situation as defined under NAC 445B.056?:
   ☐ **Yes** ☒ **No**

INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	**44: Cemented Batch Plant - Hopper Loading**												
PF1.038	Loader Feed to Feed Chute	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	**45: Cemented Batch Plant - Screen Feed Transfers**												
PF1.039	Feed Chute to Alluvium Feeder	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.38	0.71	NDEP Default BH grain loading
									PM_{10}	0.0011	lb/ton	0.14	0.26	
									$PM_{2.5}$	0.00017	lb/ton	0.021	0.039	
	System No. & Name:	**45: Cemented Batch Plant - Screen Feed Transfers**												
PF1.040	Alluvium Feeder to Screen Feed Incline Conveyor	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.38	0.71	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.14	0.26	
									$PM_{2.5}$	0.00017	lb/ton	0.021	0.039	
	System No. & Name:	**46: Cemented Batch Plant - Screening System**												
PF1.041	Screen (IN: Screen Feed Incline Conveyor; OUT: Undersize Incline Conveyor, Midsize Incline Conveyor, and Oversize Stacker Conveyor)	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.025	lb/ton	3.13	5.88	AP-42 Table 11.19.2-2: Screening (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0087	lb/ton	1.09	2.04	
									$PM_{2.5}$	0.0013	lb/ton	0.16	0.31	
	System No. & Name:	**47: Cemented Batch Plant - Screened Material Transfers**												
PF1.042	Midsize Incline Conveyor to Midsize Radial Stacker	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.38	0.71	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.14	0.26	
									$PM_{2.5}$	0.00017	lb/ton	0.021	0.039	
	System No. & Name:	**47: Cemented Batch Plant - Screened Material Transfers**												
PF1.043	Undersize Incline Conveyor to Undersize Radial Conveyor	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.38	0.71	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.14	0.26	
									$PM_{2.5}$	0.00017	lb/ton	0.021	0.039	
	System No. & Name:	**47: Cemented Batch Plant - Screened Material Transfers**												
PF1.044a	Undersize Radial Conveyor to Screened Alluvium Chute	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	

*Exact format may be changed, but requested information is still required.

INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.044b	Undersize Radial Conveyor to Stockpile	24	8,760	see PF1.044a for total combined throughput			None	N/A	see PF1.044a for emissions					
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.045	Oversize Stacker Conveyor to Stockpile	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.046	Midsize Radial Stacker to Stockpile	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.047	Screened Alluvium Chute to Surge Bin Feed Incline Conveyor	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.048	Surge Bin Feed Incline Conveyor to Screened Alluvium Surge Bin	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.38	0.71	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.14	0.26	
									$PM_{2.5}$	0.00017	lb/ton	0.021	0.039	
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.049	Screened Alluvium Surge Bin to Screened Alluvium Feeder	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	47: Cemented Batch Plant - Screened Material Transfers												
PF1.050	Screened Alluvium Feeder to HPGR Feed Incline Conveyor	24	8,760	250	940,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.38	0.71	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.14	0.26	
									$PM_{2.5}$	0.00017	lb/ton	0.021	0.039	

*Exact format may be changed, but requested information is still required.

INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	**47: Cemented Batch Plant - Screened Material Transfers**												
PF1.051	Loader Feed to HPGR Feed Incline Conveyor (via Hopper)	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	**48: Cemented Batch Plant - Crusher**												
S2.071	HPGR Crusher (IN: HPGR Feed Incline Conveyor; OUT: Ground Alluvium Conveyor)	24	8,760	250	940,000	ton	Cartridge Filter	N/A	PM	0.02	gr/dscf	1.80	7.88	NDEP Default Grain Loading
									PM_{10}	0.02	gr/dscf	1.80	7.88	
									$PM_{2.5}$	0.02	gr/dscf	1.80	7.88	
	System No. & Name:	**49: Cemented Batch Plant - Crushed Material Transfers**												
PF1.052	Ground Alluvium Conveyor to Stockpile	24	8,760	250	940,000	ton	None	N/A	PM	0.0030	lb/ton	0.75	1.41	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.28	0.52	
									$PM_{2.5}$	0.00017	lb/ton	0.042	0.078	
	System No. & Name:	**50: Cemented Batch Plant Mixing**												
S2.072	Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)	24	8,760	10	50,000	ton	Vent Filter	Controlled EF	PM	0.0184	lb/ton	0.18	0.46	AP-42, 11.12-2 (6/06), Mixer Loading [Central Mix] (controlled); AP-42, 13.2.4 (6/06) particle size
									PM_{10}	0.0055	lb/ton	0.055	0.14	
									$PM_{2.5}$	0.00083	lb/ton	0.0083	0.021	
	System No. & Name:	**51: Cemented Batch Plant Cement Storage Silo**												
S2.073	Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)	24	8,760	50	50,000	ton	Vent Filter	Controlled EF	PM	0.00099	lb/ton	0.050	0.025	AP-42, 11.12-2 (6/06), Cement Loading [Central Mix] (controlled); AP-42, 13.2.4 (6/06) particle size
									PM_{10}	0.00034	lb/ton	0.017	0.0085	
									$PM_{2.5}$	0.000050	lb/ton	0.0025	0.0013	
	System No. & Name:	**53: Metal Removal System Material Transfers**												
PF1.054	Apron Feeder Discharge to Belt Conveyor #1	24	8,760	450	2,000,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.68	1.50	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.25	0.55	
									$PM_{2.5}$	0.00017	lb/ton	0.037	0.083	
	System No. & Name:	**53: Metal Removal System Material Transfers**												
PF1.055	Belt Conveyor #1 Discharge to Belt Conveyor #2	24	8,760	450	2,000,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.68	1.50	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.25	0.55	
									$PM_{2.5}$	0.00017	lb/ton	0.037	0.083	

*Exact format may be changed, but requested information is still required.

INDUSTRIAL PROCESS AND STORAGE SILO DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Throughput			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	**53: Metal Removal System Material Transfers**												
PF1.056	Belt Conveyor #2 Discharge to Stacker Conveyor	24	8,760	450	2,000,000	ton	Enclosure	50%	PM	0.0030	lb/ton	0.68	1.50	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.25	0.55	
									$PM_{2.5}$	0.00017	lb/ton	0.037	0.083	
	System No. & Name:	**53: Metal Removal System Stacking**												
PF1.057	Stacker Conveyor Discharge to Stockpile	24	8,760	450	2,000,000	ton	None	N/A	PM	0.0030	lb/ton	1.35	3.0	AP-42 Table 11.19.2-2: Conveyor Transfer Point (Uncontrolled) PM2.5 = PM10*(0.053/0.35) [NDEP 2017]
									PM_{10}	0.0011	lb/ton	0.50	1.10	
									$PM_{2.5}$	0.00017	lb/ton	0.075	0.17	

*Exact format may be changed, but requested information is still required.

COMBUSTION EQUIPMENT DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Power Output		Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Amount	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
System No. & Name:		**52: Cemented Batch Plant Emergency Generator**																
S2.074	Cemented Batch Plant Diesel-Fired Emergency Generator (≤2,898 kW, mfd. 2006 or newer)	24	100	27.2	2,720	194.3	19,430	gal	2,898	kW	None	N/A	PM	0.2	g/kW-hr	1.28	0.064	40 CFR Part 1039 Appendix I - Table 2, Tier 2 for PM, CO, NOX; AP-42 Table 3.4-1 (10/96) VOC; SO2 mass balance 0.0015% S
													PM_{10}	0.2	g/kW-hr	1.28	0.064	
													$PM_{2.5}$	0.2	g/kW-hr	1.28	0.064	
													SO_2	0.0015	lb/MMBtu	0.040	0.0020	
													NO_X	6.4	g/kW-hr	40.9	2.04	
													CO	3.5	g/kW-hr	22.4	1.12	
													VOC	0.09	lb/MMBtu	2.45	0.12	
System No. & Name:		**IA: Insignificant Activities**																
IA1.131	CBP MUA Unit	24	8,760	3.60	31,536	39.34	344,656	gal	3.60	MMBtu	None	N/A	PM	0.7	lb/kgal	0.028	0.12	AP-42, Tab. 1.5-1, 07/08 (propane boilers; PM=PM10=PM2.5)
													PM_{10}	0.7	lb/kgal	0.028	0.12	
													$PM_{2.5}$	0.7	lb/kgal	0.028	0.12	
													SO_2	1.6	lb/kgal	0.063	0.27	
													NO_X	13.0	lb/kgal	0.51	2.24	
													CO	7.5	lb/kgal	0.30	1.29	
													VOC	1.0	lb/kgal	0.039	0.17	
System No. & Name:		**IA: Insignificant Activities**																
IA1.132	CBP Building Heaters (8)	24	8,760	0.24	2,102	2.62	22,977	gal	0.24	MMBtu	None	N/A	PM	0.7	lb/kgal	0.0018	0.0080	AP-42, Tab. 1.5-1, 07/08 (propane boilers; PM=PM10=PM2.5)
													PM_{10}	0.7	lb/kgal	0.0018	0.0080	
													$PM_{2.5}$	0.7	lb/kgal	0.0018	0.0080	
													SO_2	1.6	lb/kgal	0.0042	0.018	
													NO_X	13.0	lb/kgal	0.034	0.15	
													CO	7.5	lb/kgal	0.020	0.086	
													VOC	1.0	lb/kgal	0.0026	0.011	

*Exact format may be changed, but requested information is still required.

Cat® 3516E
Diesel Generator Sets

System 52 (S2.074) Example Manufacturer Specification Sheet with Maximum Fuel Flow Rate

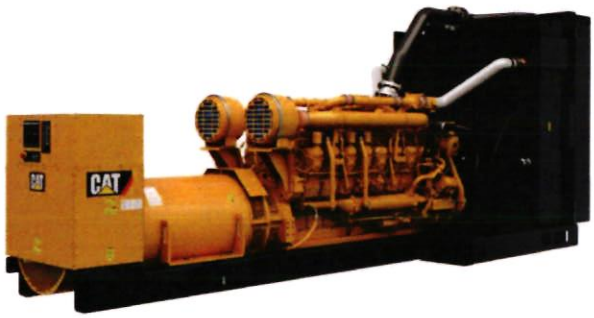


Image shown may not reflect actual configuration

Bore – mm (in)	170 (6.69)
Stroke – mm (in)	215 (8.47)
Displacement – L (in^3)	78.1 (4766)
Compression Ratio	14.7:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A5

Standby 60 Hz ekW (kVA)	Mission Critical 60 Hz ekW (kVA)	Prime 60 Hz ekW (kVA)	Emissions Performance
2750 (3437)	2750 (3437)	2500 (3125)	U.S. EPA Certified for Emergency Stationary Applications (Tier 2)

Standard Features

Cat® Diesel Engine
- Meets U.S. EPA Stationary Emergency Use Only (Tier 2) emission standards
- Reliable performance proven in thousands of applications worldwide

Generator Set Package
- Accepts 100% block load in one step and meets NFPA 110 loading requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Alternators
- Superior motor starting capability minimizes need for oversizing generator
- Designed to match performance and output characteristics of Cat diesel engines

Cooling System
- Cooling systems available to operate in ambient temperatures up to 50°C (122°F)
- Tested to ensure proper generator set cooling

EMCP 4 Control Panels
- User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements

Warranty
- 24 months/1000-hour warranty for standby and mission critical ratings
- 12 months/unlimited hour warranty for prime and continuous ratings
- Extended service protection is available to provide extended coverage options

Worldwide Product Support
- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

Financing
- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region

Optional Equipment

Engine

Air Cleaner
- ❑ Single element

Muffler
- ❑ Industrial grade (15 dB)
- ❑ Critical grade (25 dB)
- ❑ Hospital grade (35 dB)

Starting
- ❑ Standard batteries
- ❑ Oversized batteries
- ❑ Heavy duty electric starter(s)
- ❑ Air starter(s)
- ❑ Jacket water heater

Alternator

Output voltage
- ❑ 416V ❑ 12470V
- ❑ 480V ❑ 13200V
- ❑ 600V ❑ 13800V
- ❑ 4160V

Temperature Rise (over 40°C ambient)
- ❑ 150°C
- ❑ 125°C/130°C
- ❑ 105°C
- ❑ 80°C

Winding type
- ❑ Form wound

Excitation
- ❑ Permanent magnet (PM)

Attachments
- ❑ Anti-condensation heater
- ❑ Stator and bearing temperature monitoring and protection

Power Termination

Type
- ❑ Bus bar
- ❑ Circuit breaker
- ❑ 1600A ❑ 2000A
- ❑ 2500A ❑ 3000A
- ❑ 3200A ❑ 4000A
- ❑ 5000A
- ❑ IEC ❑ UL
- ❑ 3-pole ❑ 4-pole
- ❑ Manually operated
- ❑ Electrically operated

Trip Unit
- ❑ LSI ❑ LSI-G
- ❑ LSI-P ❑ LSIG-P

Control System

Controller
- ❑ EMCP 4.2B
- ❑ EMCP 4.3
- ❑ EMCP 4.4

Attachments
- ❑ Local annunciator module
- ❑ Remote annunciator module
- ❑ Expansion I/O module
- ❑ Remote monitoring software

Charging

- ❑ Battery charger – 10A
- ❑ Battery charger – 20A
- ❑ Battery charger – 35A

Vibration Isolators

- ❑ Spring
- ❑ Seismic rated

Cat Connect

Connectivity
- ❑ Ethernet
- ❑ Cellular
- ❑ Satellite

Extended Service Options

Terms
- ❑ 2 year (prime)
- ❑ 3 year
- ❑ 5 year
- ❑ 10 year

Coverage
- ❑ Silver
- ❑ Gold
- ❑ Platinum
- ❑ Platinum Plus

Ancillary Equipment

- ❑ Automatic transfer switch (ATS)
- ❑ Uninterruptible power supply (UPS)
- ❑ Paralleling switchgear
- ❑ Paralleling controls

Certifications

- ❑ UL2200
- ❑ CSA
- ❑ IBC seismic certification
- ❑ OSHPD pre-approval

Note: *Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.*

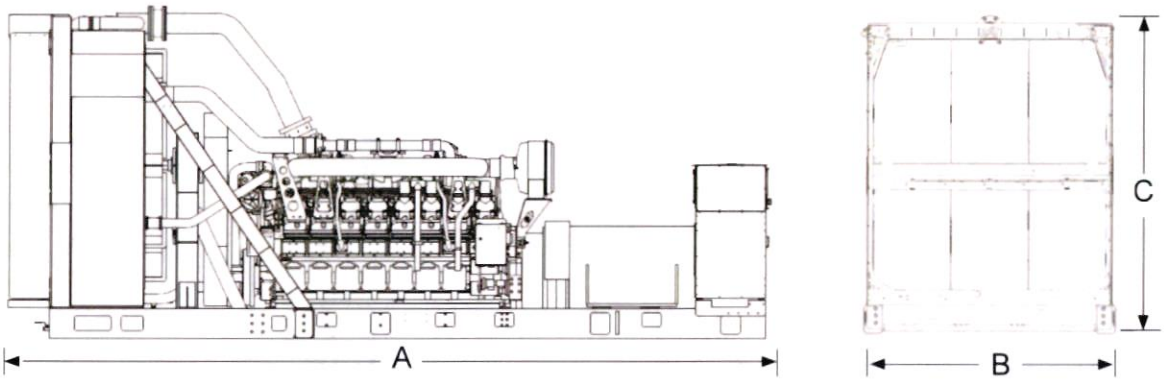
Package Performance

Performance	Standby		Mission Critical		Prime	
Frequency	60 Hz		60 Hz		60 Hz	
Gen set power rating with fan	2750 ekW		2750 ekW		2500 ekW	
Gen set power rating with fan @ 0.8 power factor	3438 kVA		3438 kVA		3125 kVA	
Emissions	EPA ESE (TIER 2)		EPA ESE (TIER 2)		EPA ESE (TIER 2)	
Performance number	EM2026-01		EM2116-01		DM2028-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	735.6	(194.3)	735.6	(194.3)	662.5	(175.0)
75% load with fan – L/hr (gal/hr)	559.9	(147.9)	559.9	(147.9)	518.2	(136.9)
50% load with fan – L/hr (gal/hr)	406.7	(107.4)	406.7	(107.4)	377.2	(99.6)
25% load with fan – L/hr (gal/hr)	236.8	(62.6)	236.8	(62.6)	221.3	(58.5)
Cooling System						
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)
Radiator air flow – m³/min (cfm)	3026	(106862)	3026	(106862)	3026	(106862)
Engine coolant capacity – L (gal)	233	(61.6)	233	(61.6)	233	(61.6)
Radiator coolant capacity – L (gal)	202	(53.3)	202	(53.3)	202	(53.3)
Total coolant capacity – L (gal)	435	(114.9)	435	(114.9)	435	(114.9)
Inlet Air						
Combustion air inlet flow rate – m³/min (cfm)	235.4	(8311.0)	235.4	(8311.0)	218.0	(7698.5)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	480.6	(897.0)	480.6	(897.0)	469.1	(876.4)
Exhaust gas flow rate – m³/min (cfm)	615.2	(21724.6)	554.5	(21724.6)	560.1	(19778.8)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
Heat Rejection						
Heat rejection to jacket water – kW (Btu/min)	898	(51083)	898	(51083)	830	(47219)
Heat rejection to exhaust (total) – kW (Btu/min)	2867	(163046)	2867	(163046)	2560	(145561)
Heat rejection to aftercooler – kW (Btu/min)	874	(49686)	874	(49686)	743	(42274)
Heat rejection to atmosphere from engine – kW (Btu/min)	160	(9085)	160	(9085)	150	(8557)
Heat rejection from alternator – kW (Btu/min)	126	(7172)	126	(7172)	112	(6386)
Emissions* (Nominal)						
NOx mg/Nm³ (g/hp-h)	2195.2	(5.12)	2195.2	(5.12)	2255.8	(5.16)
CO mg/Nm³ (g/hp-h)	283.4	(0.64)	283.4	(0.64)	205.2	(0.46)
HC mg/Nm³ (g/hp-h)	39.8	(0.10)	39.8	(0.10)	45.0	(0.12)
PM mg/Nm³ (g/hp-h)	24.7	(0.07)	24.7	(0.07)	14.3	(0.04)
Emissions* (Potential Site Variation)						
NOx mg/Nm³ (g/hp-h)	2634.2	(6.14)	2634.2	(6.14)	2706.9	(6.19)
CO mg/Nm³ (g/hp-h)	510.1	(1.16)	510.1	(1.16)	369.4	(0.83)
HC mg/Nm³ (g/hp-h)	52.9	(0.14)	52.9	(0.14)	59.8	(0.15)
PM mg/Nm³ (g/hp-h)	34.5	(0.09)	34.5	(0.09)	20.1	(0.05)

**mg/Nm³ levels are corrected to 5% O_2. Contact your local Cat dealer for further information.*

3516E Diesel Generator Sets
Electric Power

Weights and Dimensions



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
7703 (303.3)	2640 (104.0)	3342 (131.6)	18 480 (40,750)

Note: *For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.*

Ratings Definitions

Standby
Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Mission Critical
Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the mission critical power rating. Typical peak demand up to 100% of rated power for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Prime
Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Applicable Codes and Standards
AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU.

Note: Codes may not be available in all model configurations. Please consult your local Cat dealer for availability.

Data Center Applications
Tier III/Tier IV compliant per Uptime Institute requirements. ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates
Fuel rates are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)

www.cat.com/electricpower
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Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.

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3516 PGFL
LEHE1351-04 (04/19)

GREENHOUSE GASES (GHG) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions						References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	GWP Multiplier	Unit	CO_{2e} Hourly Rate (lbs/hr)	CO_{2e} Yearly Rate (tons/yr)	
System No. & Name:		**52: Cemented Batch Plant Emergency Generator**															
S2.074	Cemented Batch Plant Diesel-Fired Emergency Generator (≤2,898 kW, mfd. 2006 or newer)	24	100	27.2	2,720	194	19,430	gal	None	N/A	CO_2	73.96	1	kg/MMBtu	4,435	222	40 CFR Part 98, Table C-1 to Subpart C, Distillate Fuel Oil #2
											CH_4	0.003	28	kg/MMBtu	5.04	0.25	40 CFR Part 98, Table C-2 to Subpart C, Petroleum Products
											N_2O	0.0006	265	kg/MMBtu	9.54	0.48	40 CFR Part 98, Table C-2 to Subpart C, Petroleum Products
System No. & Name:		**IA: Insignificant Activities**															
IA1.131	CBP MUA Unit	24	8,760	3.60	31,536	39.34	344,656	gal	None	N/A	CO_2	62.87	1	kg/MMBtu	499	2,186	40 CFR Part 98, Table C-1 to Subpart C, Propane
											CH_4	0.003	28	kg/MMBtu	0.67	2.92	40 CFR Part 98, Table C-2 to Subpart C, Petroleum Products
											N_2O	0.0006	265	kg/MMBtu	1.26	5.53	40 CFR Part 98, Table C-2 to Subpart C, Petroleum Products
System No. & Name:		**IA: Insignificant Activities**															
IA1.132	CBP Building Heaters (8)	24	8,760	0.24	2,102	2.62	22,977	gal	None	N/A	CO_2	62.87	1	kg/MMBtu	33.3	146	40 CFR Part 98, Table C-1 to Subpart C, Propane
											CH_4	0.003	28	kg/MMBtu	0.044	0.19	40 CFR Part 98, Table C-2 to Subpart C, Petroleum Products
											N_2O	0.0006	265	kg/MMBtu	0.084	0.37	40 CFR Part 98, Table C-2 to Subpart C, Petroleum Products

*Exact format may be changed, but requested information is still required.

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	50: Cemented Batch Plant Mixing														
S2.072	Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)	24	8,760	N/A	N/A	N/A	N/A	N/A	Vent Filter	Controlled EF	Arsenic	2.96E-07	lb/ton	2.96E-06	7.40E-06	
											Cadmium	7.10E-10	lb/ton	7.10E-09	1.78E-08	AP-42, Table 11.12-8 (6/06) Concrete Batching
											Chromium	1.27E-07	lb/ton	1.27E-06	3.18E-06	
											Lead	3.66E-08	lb/ton	3.66E-07	9.15E-07	
											Manganese	3.78E-06	lb/ton	3.78E-05	9.45E-05	
											Nickel	2.48E-07	lb/ton	2.48E-06	6.20E-06	
											Phosphorus	1.60E-06	lb/ton	1.60E-05	4.00E-05	

*Exact format may be changed, but requested information is still required.

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	51: Cemented Batch Plant Cement Storage Silo														
S2.073	Cement Silo Loading (Unloading to Mixer via Fully Enclosed Loss-in-Weight Feeder and Cement Screw Feeder)	24	8,760	N/A	N/A	N/A	N/A	N/A	Vent Filter	Controlled EF	Arsenic	4.24E-09	lb/ton	2.12E-07	1.06E-07	
											Beryllium	4.86E-10	lb/ton	2.43E-08	1.22E-08	
											Cadmium	4.68E-09	lb/ton	2.34E-07	1.17E-07	AP-42, Table 11.12-8 (6/06) Concrete Batching
											Chromium	2.90E-08	lb/ton	1.45E-06	7.25E-07	
											Lead	1.09E-08	lb/ton	5.45E-07	2.73E-07	
											Manganese	1.17E-07	lb/ton	5.85E-06	2.93E-06	
											Nickel	4.18E-08	lb/ton	2.09E-06	1.05E-06	
											Phosphorus	2.36E-07	lb/ton	1.18E-05	5.90E-06	

*Exact format may be changed, but requested information is still required.

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	52: Cemented Batch Plant Emergency Generator														
S2.074	Cemented Batch Plant Diesel-Fired Emergency Generator (≤2,898 kW, mfd. 2006 or newer)	24	100	27.2	2,720	194.3	19,430	gal	None	N/A	Benzene	7.76E-04	lb/MMBtu	2.11E-02	1.06E-03	AP-42 Tables 3.4-3, and 3.4-4 (04/25), Large Stationary Diesel Engines
											Toluene	2.81E-04	lb/MMBtu	7.64E-03	3.82E-04	
											Xylenes	1.93E-04	lb/MMBtu	5.25E-03	2.62E-04	
											Formaldehyde	7.89E-05	lb/MMBtu	2.15E-03	1.07E-04	
											Acetaldehyde	2.52E-05	lb/MMBtu	6.85E-04	3.43E-05	
											Acrolein	7.88E-06	lb/MMBtu	2.14E-04	1.07E-05	
											Naphthalene	1.30E-04	lb/MMBtu	3.54E-03	1.77E-04	
											Acenaphthylene	9.23E-06	lb/MMBtu	2.51E-04	1.26E-05	
											Acenaphthene	4.68E-06	lb/MMBtu	1.27E-04	6.37E-06	
											Fluorene	1.28E-05	lb/MMBtu	3.48E-04	1.74E-05	
											Phenanthrene	4.08E-05	lb/MMBtu	1.11E-03	5.55E-05	
											Anthracene	1.23E-06	lb/MMBtu	3.35E-05	1.67E-06	
											Fluoranthene	4.03E-06	lb/MMBtu	1.10E-04	5.48E-06	
											Pyrene	3.71E-06	lb/MMBtu	1.01E-04	5.05E-06	
											Benz(a)anthracene	6.22E-07	lb/MMBtu	1.69E-05	8.46E-07	
											Chrysene	1.53E-06	lb/MMBtu	4.16E-05	2.08E-06	
											Benzo(b)fluoranthene	1.11E-06	lb/MMBtu	3.02E-05	1.51E-06	
											Benzo(k)fluoranthene	2.18E-07	lb/MMBtu	5.93E-06	2.97E-07	
											Benzo(a)pyrene	2.57E-07	lb/MMBtu	6.99E-06	3.50E-07	
											Indeno(1,2,3-cd)pyrene	4.14E-07	lb/MMBtu	1.13E-05	5.63E-07	
											Dibenz(a,h)anthracene	3.46E-07	lb/MMBtu	9.41E-06	4.71E-07	
											Benzo(g,h,i)perylene	5.56E-07	lb/MMBtu	1.51E-05	7.56E-07	

*Exact format may be changed, but requested information is still required.

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	IA: Insignificant Activities														
IA1.131	CBP MUA Unit	24	8,760	3.60	31,536	39.34	344,656	gal	None	N/A	2-Methylnaphthalene	2.35E-08	lb/MMBtu	8.47E-08	3.71E-07	AP-42, Table 1.4-2, 3 & 4 (7/98) Natural Gas Combustion
											3-Methylchloranthrene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											7,12-Dimethylbenz(a)anthracene	1.57E-08	lb/MMBtu	5.65E-08	2.47E-07	
											Acenaphthene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Acenaphthylene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Anthracene	2.35E-09	lb/MMBtu	8.47E-09	3.71E-08	
											Benz(a)anthracene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Benzene	2.06E-06	lb/MMBtu	7.41E-06	3.25E-05	
											Benzo(a)pyrene	1.18E-09	lb/MMBtu	4.24E-09	1.86E-08	
											Benzo(b)fluoranthene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Benzo(g,h,i)perylene	1.18E-09	lb/MMBtu	4.24E-09	1.86E-08	
											Benzo(k)fluoranthene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Chrysene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Dibenz(a,h)anthracene	1.18E-09	lb/MMBtu	4.24E-09	1.86E-08	
											Dichlorobenzene	1.18E-06	lb/MMBtu	4.24E-06	1.86E-05	
											Fluoranthene	2.94E-09	lb/MMBtu	1.06E-08	4.64E-08	
											Fluorene	2.75E-09	lb/MMBtu	9.88E-09	4.33E-08	
											Formaldehyde	7.35E-05	lb/MMBtu	2.65E-04	1.16E-03	
											Hexane	1.76E-03	lb/MMBtu	6.35E-03	2.78E-02	
											Indeno(1,2,3-cd)pyrene	1.76E-09	lb/MMBtu	6.35E-09	2.78E-08	
											Naphthalene	5.98E-07	lb/MMBtu	2.15E-06	9.43E-06	
											Phenanthrene	1.67E-08	lb/MMBtu	6.00E-08	2.63E-07	
											Pyrene	4.90E-09	lb/MMBtu	1.76E-08	7.73E-08	
											Toluene	3.33E-06	lb/MMBtu	1.20E-05	5.26E-05	
											Lead	4.90E-07	lb/MMBtu	1.76E-06	7.73E-06	
											Arsenic	1.96E-07	lb/MMBtu	7.06E-07	3.09E-06	
											Beryllium	1.18E-08	lb/MMBtu	4.24E-08	1.86E-07	
											Cadmium	1.08E-06	lb/MMBtu	3.88E-06	1.70E-05	
											Chromium	1.37E-06	lb/MMBtu	4.94E-06	2.16E-05	
											Cobalt	8.24E-08	lb/MMBtu	2.96E-07	1.30E-06	
											Manganese	3.73E-07	lb/MMBtu	1.34E-06	5.87E-06	
											Mercury	2.55E-07	lb/MMBtu	9.18E-07	4.02E-06	
											Nickel	2.06E-06	lb/MMBtu	7.41E-06	3.25E-05	
											Selenium	2.35E-08	lb/MMBtu	8.47E-08	3.71E-07	

*Exact format may be changed, but requested information is still required.

HAZARDOUS AIR POLLUTANTS (HAPS) DETAILED CALCULATIONS

Unit No.	Unit Description	Operating Hours		Heat Input (MMBtu)		Fuel Usage			Controls		Emissions					References
		Daily	Annual	Hourly	Annual	Hourly	Annual	Units	Type	Efficiency or Dry Volume Flow Rate	Pollutant	Factor	Unit	Hourly Rate (lbs/hr)	Yearly Rate (tons/yr)	
	System No. & Name:	IA: Insignificant Activities														
IA1.132	CBP Building Heaters (8)	24	8,760	0.24	2,102	2.62	22,977	gal	None	N/A	2-Methylnaphthalene	2.35E-08	lb/MMBtu	5.65E-09	2.47E-08	AP-42, Table 1.4-2, 3 & 4 (7/98) Natural Gas Combustion
											3-Methylchloranthrene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											7,12-Dimethylbenz(a)anthracene	1.57E-08	lb/MMBtu	3.76E-09	1.65E-08	
											Acenaphthene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Acenaphthylene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Anthracene	2.35E-09	lb/MMBtu	5.65E-10	2.47E-09	
											Benz(a)anthracene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Benzene	2.06E-06	lb/MMBtu	4.94E-07	2.16E-06	
											Benzo(a)pyrene	1.18E-09	lb/MMBtu	2.82E-10	1.24E-09	
											Benzo(b)fluoranthene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Benzo(g,h,i)perylene	1.18E-09	lb/MMBtu	2.82E-10	1.24E-09	
											Benzo(k)fluoranthene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Chrysene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Dibenz(a,h)anthracene	1.18E-09	lb/MMBtu	2.82E-10	1.24E-09	
											Dichlorobenzene	1.18E-06	lb/MMBtu	2.82E-07	1.24E-06	
											Fluoranthene	2.94E-09	lb/MMBtu	7.06E-10	3.09E-09	
											Fluorene	2.75E-09	lb/MMBtu	6.59E-10	2.89E-09	
											Formaldehyde	7.35E-05	lb/MMBtu	1.76E-05	7.73E-05	
											Hexane	1.76E-03	lb/MMBtu	4.24E-04	1.86E-03	
											Indeno(1,2,3-cd)pyrene	1.76E-09	lb/MMBtu	4.24E-10	1.86E-09	
											Naphthalene	5.98E-07	lb/MMBtu	1.44E-07	6.29E-07	
											Phenanthrene	1.67E-08	lb/MMBtu	4.00E-09	1.75E-08	
											Pyrene	4.90E-09	lb/MMBtu	1.18E-09	5.15E-09	
											Toluene	3.33E-06	lb/MMBtu	8.00E-07	3.50E-06	
											Lead	4.90E-07	lb/MMBtu	1.18E-07	5.15E-07	
											Arsenic	1.96E-07	lb/MMBtu	4.71E-08	2.06E-07	
											Beryllium	1.18E-08	lb/MMBtu	2.82E-09	1.24E-08	
											Cadmium	1.08E-06	lb/MMBtu	2.59E-07	1.13E-06	
											Chromium	1.37E-06	lb/MMBtu	3.29E-07	1.44E-06	
											Cobalt	8.24E-08	lb/MMBtu	1.98E-08	8.66E-08	
											Manganese	3.73E-07	lb/MMBtu	8.94E-08	3.92E-07	
											Mercury	2.55E-07	lb/MMBtu	6.12E-08	2.68E-07	
											Nickel	2.06E-06	lb/MMBtu	4.94E-07	2.16E-06	
											Selenium	2.35E-08	lb/MMBtu	5.65E-09	2.47E-08	

*Exact format may be changed, but requested information is still required.

FACILITY-WIDE POTENTIAL TO EMIT TABLE
(FOR ALL SOURCES INCLUDING INSIGNIFICANT ACTIVITIES)
(POUND/HOUR AND TON/YEAR)

Pollutant	Facility-Wide Potential to Emit (pound/hour)	Facility-Wide Potential to Emit (ton/year)
Total Particulate Matter (PM)	**123.75**	**199.39**
Total PM_{10}	**51.65**	**89.31**
Total $PM_{2.5}$	**17.37**	**39.40**
Total Sulfur Dioxide (SO_2)	**0.65**	**2.47**
Total Carbon Monoxide (CO)	**47.81**	**13.90**
Total Oxides of Nitrogen (NO_X)	**104.86**	**25.19**
Total Volatile Organic Compounds (VOC)	**11.53**	**4.80**
Total Lead (Pb)	**N/A**	**Included in Total HAPs**
Total Hydrogen Sulfide (H_2S)	**N/A**	**N/A**
Total Sulfuric Acid Mist (H_2SO_4)	**N/A**	**N/A**
Total Hazardous Air Pollutants (HAPs)	**N/A**	**0.296**
Total Greenhouse Gases (CO_{2e})	**N/A**	**20,195**
Other Regulated Pollutants (Specify)	**N/A**	**N/A**

REVISION TABLE

Please complete the table below if this application is for a **Revision** of an existing Class II Air Quality Operating Permit. Add more columns if needed for any other applicable regulated pollutants. All Potential To Emit (PTE) must be in tons per year (TPY) [NAC 445B.3457(5)(b)]

Description	Pollutants									
	PM	PM_{10}	$PM_{2.5}$	SO_2	NOx	CO	VOC	HAPs	CO_{2e}	Other
Permitted Facility-Wide PTE (TPY)	158.95	69.50	29.55	2.18	20.76	11.40	4.49	0.271	17,632	N/A
Proposed Facility-Wide PTE (TPY)	199.39	89.31	39.40	2.47	25.19	13.90	4.80	0.296	20,195	N/A
Change in Facility-Wide PTE (TPY)	40.45	19.80	9.85	0.29	4.43	2.50	0.31	0.025	2,563	N/A

SURFACE AREA DISTURBANCE FORM

1. Total Acres of the Facility Site: **15,366**
2. Total Acres Disturbed: **7,069**
3. Add Surface Area Disturbance location as Township(s), Range(s) and Section
   Township 9N, Range 43E, Sections 1-3, 10-12, 14 and 15; Township 9N, Range 44E, Section 6; Township 10N, Range 43E, Sections 11-14, 23-26, 34-36; Township 10N, Range 44E, Sections 4-8, 17-20, 29-31; Township 11N, Range 43E, Sections 25 and 26; Township 11N, Range 43E, Sections 25 and 26; Township 11N, Range 44E, Sections 28-33
4. NAC 445B.22037 requires fugitive dust to be controlled (regardless of the size or amount of acreage disturbed), and requires an ongoing program, using best practical methods, to prevent particulate matter from becoming airborne. All activities which have the potential to adversely affect the local air quality must implement all appropriate measures to limit controllable emissions. Appropriate measures for dust control may consist of a phased approach to acreage disturbance rather than disturbing the entire area all at once; using wet suppression through such application methods as water trucks or water spray systems to control wind-blown dust; the application of soil binding agents or chemical surfactant to roadways and areas of disturbed soil; as well as the use of wind-break or wind limiting fencing designed to limit wind erosion soils.
5. If the Surface Area Disturbance is greater than 5 acres, please check each box that applies for Best Management Practices (BMPs) used for controlling dust on project's disturbed areas:
   - ☒ Water trucks
   - ☐ Graveling/paving of roadway storage areas and staging areas
   - ☒ Dust palliatives
   - ☒ Posting and limiting vehicle speeds to 10-15 miles per hour
   - ☒ Ceasing operations during high wind events
   - ☒ Fencing or berming to prevent unauthorized access to disturbed areas
   - ☐ Application of water sprays on material storage piles on a regular basis
   - ☐ Covering material storage piles with tarpaulin or geo-textiles; tenting
   - ☐ Use of overhead water spray racks or water hoses
   - ☐ Track-out controls (graveled entranced, exit area, and street sweeping)
   - ☒ Landscape preservation and impact avoidance
   - ☐ Wind fence
   - ☒ Pre-watering of areas to be disturbed (including all unpaved onsite roads and staging areas)
   - ☒ Inform all subcontractors (including truck drivers) of their responsibilities for the control of fugitive dust while they are on the project site
   - ☒ Training of equipment operators to recognize fugitive dust generation and having the authority to shut down operations until water truck arrives and sprays water on the disturbed areas
   - ☐ Other Applicable BMPs: N/A
   - ☐ Other Applicable BMPs: N/A
   - ☒ If using water trucks, list how many water trucks are used and their capacity in gallons: **Up to seven 8,000- to 32,000-gallon trucks**

PLANT BOUNDARY COORDINATES FORM

N/A - No Change Requested

Corner Number	UTM Easting	UTM Northing

PLANT BUILDING PARAMETERS FORM

N/A - No Change Requested

Building Parameters
Building Name: _____ **Building Tier :** _____
Roof Height (ft): _____ **Building Diameter (ft):** _____

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing

Building Parameters
Building Name: **Building Tier :** _____
Roof Height (ft): **Building Diameter[4] (ft):**

Building UTM Coordinates

UTM Easting	UTM Northing	UTM Easting	UTM Northing

APPLICATION CERTIFICATION DOCUMENT

(With Required Attachments)

Please check all applicable boxes below to indicate the information provided in your application submittal:

- ☒ General Company Information Form
- ☒ Industrial Process Application Form(s)
- ☒ Combustion Equipment Application Form(s)
- ☒ Storage Silos Application Form(s) – **N/A**
- ☐ Liquid Storage Tank Application Form(s) – **N/A**
- ☐ Manufacturer's Guarantee – **N/A**
- ☒ Facility-Wide Potential to Emit Table
- ☒ Surface Area Disturbance Form
- ☐ Plant Boundary Coordinates Form – **N/A**
- ☐ Plant Building Parameters Form – **N/A**
- ☒ Detailed Emission Calculations (for all emission units including IA units)
- ☐ Source Testing Data (if referenced in calculations) – **N/A**
- ☒ Process Narrative
- ☒ Process Flow Diagram(s)
- ☒ Site Plan(s) showing the locations (UTM coordinates), dimensions, and heights of buildings on the site
- ☒ Maps:
  - ☒ Vicinity Map of where the facility is located in the State
  - ☒ Area Map of the Facility (including location of all emission units, building locations (with UTMs), location of front gate, and fence line/site boundary (with UTMs))
- ☒ Environmental Evaluation (AERMOD Air Dispersion Modeling) [NAC 445B.310]
- ☐ Manufacturer's Guarantee – **N/A**
- ☒ Equipment Specifications *if applicable*
- ☐ TANKs Modeling Output – **N/A**
- ☒ Application Fee Attached or Electronically Submitted
- ☒ Digital Copy of Application on CD or Thumb Drive
- ☒ Application Certification Document with Original Responsible Official Signature

APPLICATION CERTIFICATION DOCUMENT (CONTINUED)

(With Required Attachments)

PLEASE NOTE THE FOLLOWING REQUIREMENTS WHICH APPLY TO PERMIT APPLICANTS DURING THE APPLICATION PROCESS:

A. A permit applicant must submit supplementary facts or corrected information upon discovery [NAC 445B.297(1)(b)].

B. A permit applicant is required to provide any additional information which the Director requests in writing within the time specified in the Director's request [NAC 445B.297(1)(c)].

C. Submission of fraudulent data or other information may result in prosecution for an alleged criminal offense [NRS 445B.470].

CERTIFICATION:

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this application are true, accurate and complete.

Signature of Responsible Official

Ben Scholz, Interim General Manager

Print or Type Name and Title

Oct 13 2026

Date

Appendix 1: Process Narrative, Process Flow Diagrams, and Maps

NARRATIVE DESCRIPTION

Round Mountain Gold Corporation – Smoky Valley Common Operations (RMGC) is providing this narrative description as a part of the Class II Air Quality Operating Permit (AQOP) application to revise Class II AQOP No. AP1041-3955.01. With this application, RMGC is proposing the following changes to the permit:

- Add a Cemented Batch Plant.
- Add a Metal Removal System.
- Add a diesel-fired emergency generator.
- Add categorically insignificant building heaters and a make-up air unit.

Details of these changes are described below.

1.1 Introduction

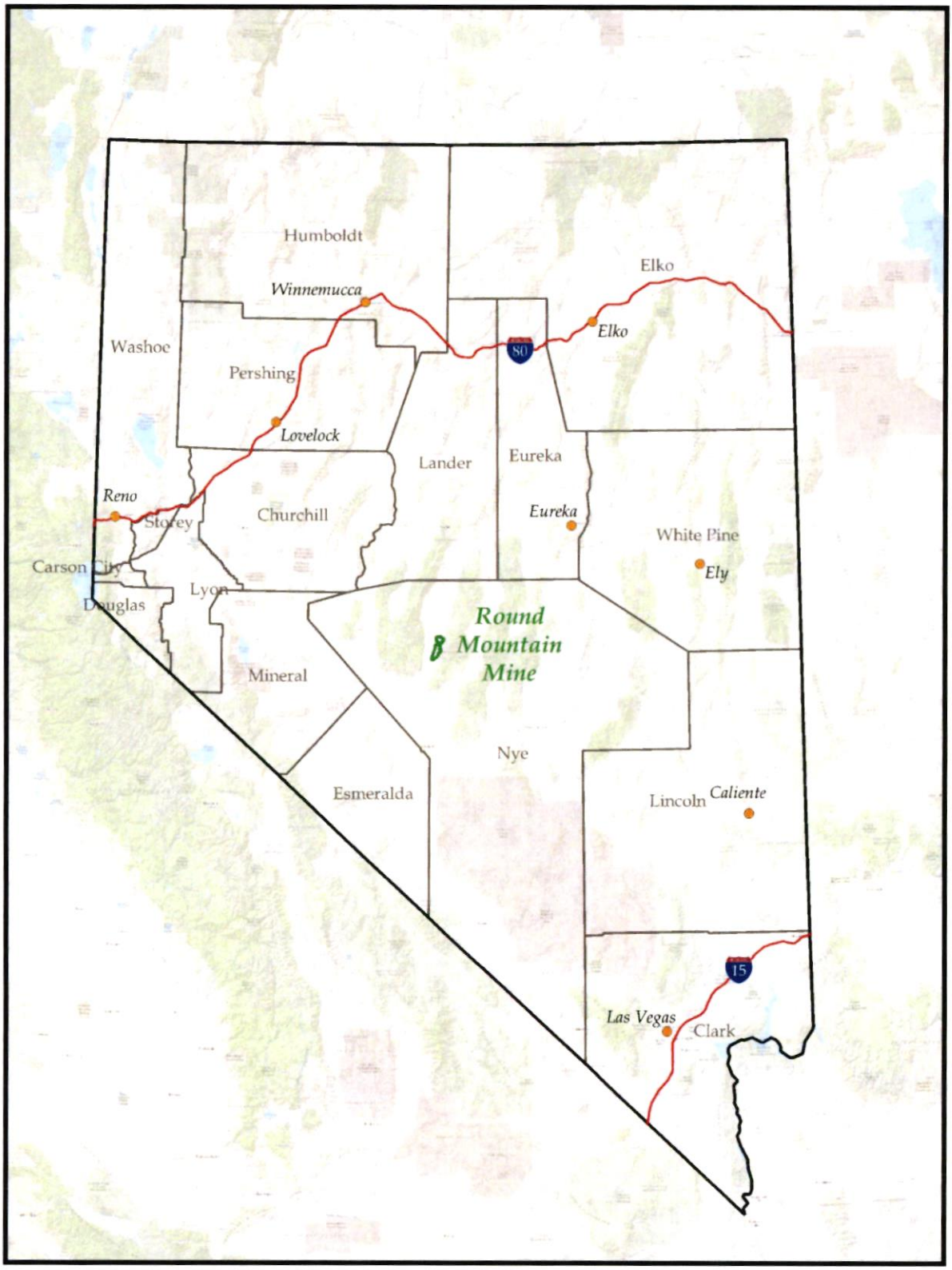
The RMGC facility is the collective operations of the Round Mountain and Gold Hill mines located at #1 Smoky Valley Mine Road, Round Mountain, in Nye County, Nevada. A facility location map is presented in Figure 1.

The RMGC facility is an active gold mine, operating since 1976. The principal operation at this facility constitutes a "metals mine," as defined by the two-digit SIC code "10" for the primary metal industry. Because the primary metal recovered is gold, the facility can be further classified by SIC code 1041, defined as "establishments primarily engaged in mining gold ores."

The facility consists of open-pit mining, ore preparation, gold recovery, and support activities, including ore crushing and transfers, heap leaching, carbon adsorption, carbon stripping, electrowinning, retorting, melting, and carbon regeneration.

The RMGC facility operates under Class II AQOP No. AP1041-3955.01, Class I AQOP No. AP1041-2965.01, and Mercury Operating Permit to Construct No. AP1041-2250.

Figure 1. RMGC Facility Location



1.2 Proposed Modifications

Cemented Batch Plant

With this revision, RMGC is proposing to add a Cemented Batch Plant (CBP) (Systems 44 - 51) to support underground operations. The CBP is comprised of aggregate loading, transfers, screening, and crushing; a cement storage silo with associated loading and unloading; and a mixing plant. In the CBP, aggregate is transferred to a feed chute using a front-end loader and conveyed to a vibrating screen to be classified by size. Oversize and midsize material are transferred via conveyor to stockpiles, whereas undersize material is transferred either to a stockpile or to additional downstream conveyors directly to the High Pressure Grinding Rolls (HPGR) Crusher for further size reduction. Aggregate can also be loader-fed from the undersize material stockpile to the HPGR feed conveyor via a hopper. From the HPGR Crusher, aggregate is conveyed into the mixing plant. In tandem, cement is unloaded from a cement silo via enclosed screw conveyors and a loss-in-weight hopper into the mixing plant, where water is added to form wet cemented aggregate. From the mixing plant, the wet cemented aggregate is pumped as a slurry to underground mining operations.

Particulate emissions from the aggregate transfers, screening, and crushing are either uncontrolled or controlled by enclosures or a cartridge filter, and particulate emissions from cement silo loading and the mixing plant are controlled by vent filters. The transfer from the mixer to underground workings is a wet process with no potential to emit any regulated pollutant.

CBP Generator Addition

To support the CBP, RMGC is also proposing to add a new diesel-fired emergency generator (proposed as System 52). The proposed diesel-fired emergency engine is manufactured in 2006 or newer with a maximum power rating of 2,898 kW. Detailed emission calculations and a representative example engine specification sheet indicating the maximum fuel flow rate are provided as part of this application. The engine is subject to 40 CFR Part 63, Subpart ZZZZ and 40 CFR Part 60, Subpart IIII.

Metal Removal System

To remove metal scrap from the ore mined from underground workings, RMGC is proposing to add a Metal Removal System (MRS) to the permit (proposed as System 53). At the MRS, ore is loaded-fed into a hopper and conveyed using a series of conveyors to a stockpile. At the conveyor transfers, magnets remove scrap metal from underground workings and drop the metal into a bin. The transfers from the loader to the hopper and to stockpile are uncontrolled, while the conveyor-to-conveyor transfers are controlled by enclosures. Except for the transfer to stockpile, the MRS is subject to 40 CFR Part 60, Subpart LL.

Insignificant Activities

Lastly, RMGC has provided application forms for building heaters and a make-up air (MUA) unit located in the CBP building. The building heaters each have a maximum heat input of 30,000

Btu/hr, and the MUA unit has a maximum heat input of 360,000 Btu/hr. These units are insignificant activities per NAC 445B.288.2(e)(1).

An area map of the facility and process flow diagrams are provided as Figures 2, 3, and 4, respectively.

Figure 2. Area Map

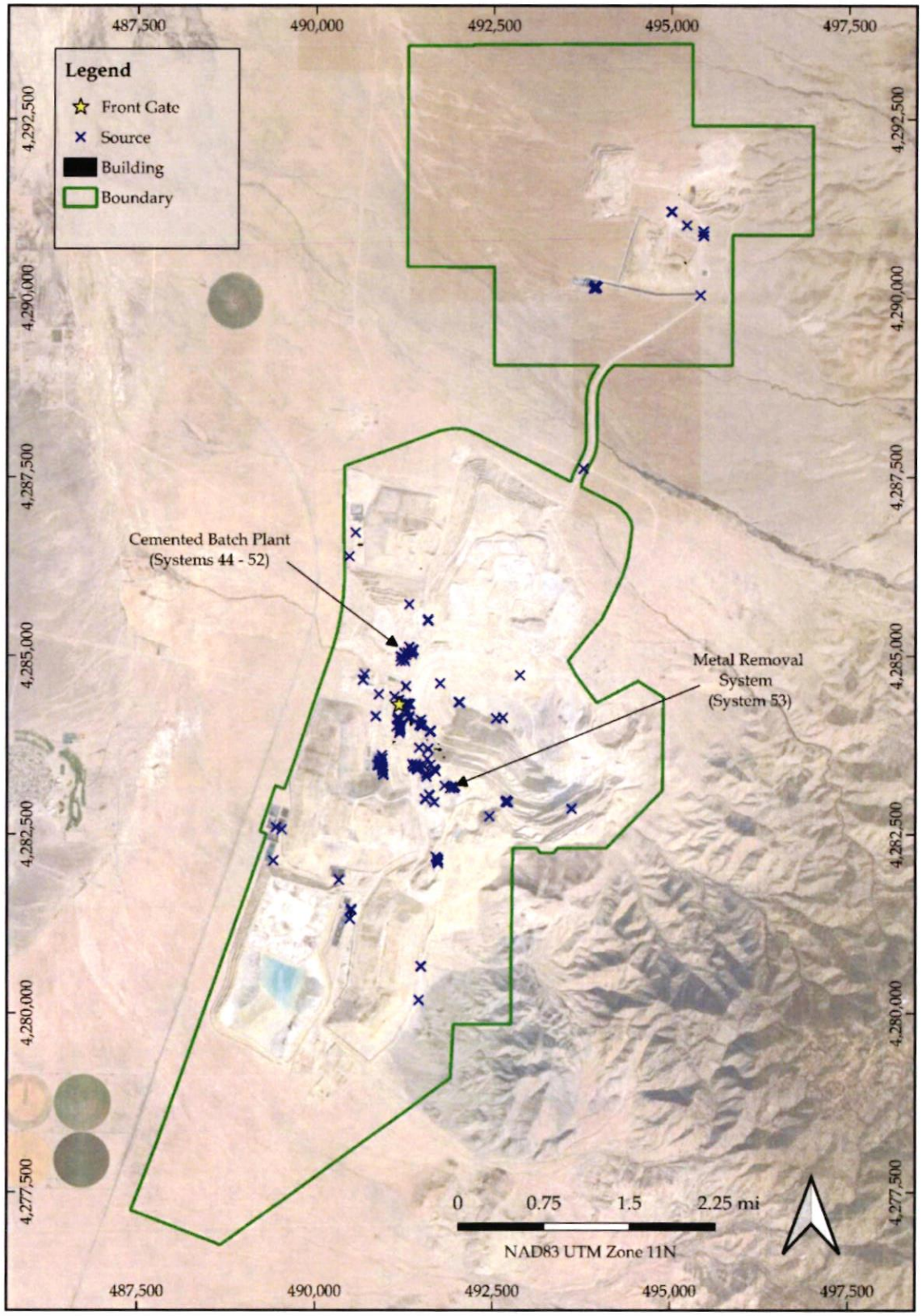


Figure 3. Cemented Batch Plant Process Flow Diagram

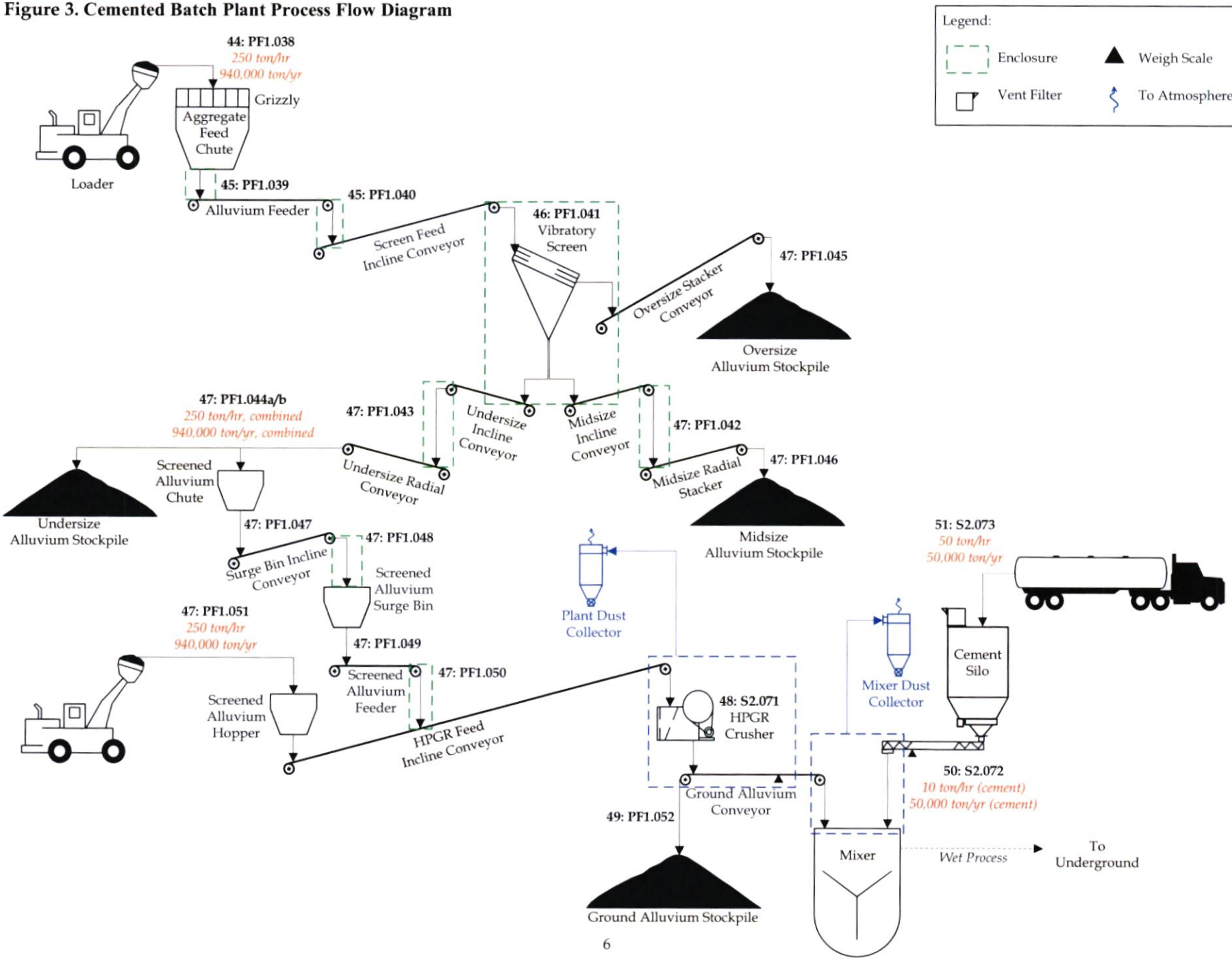
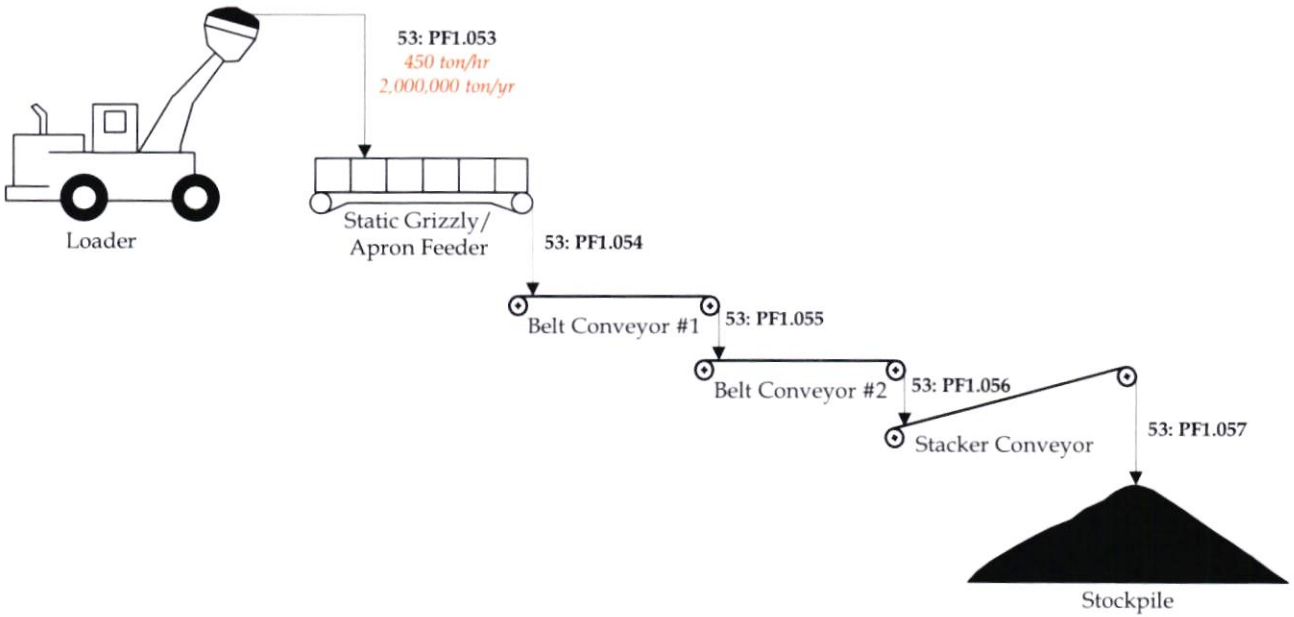
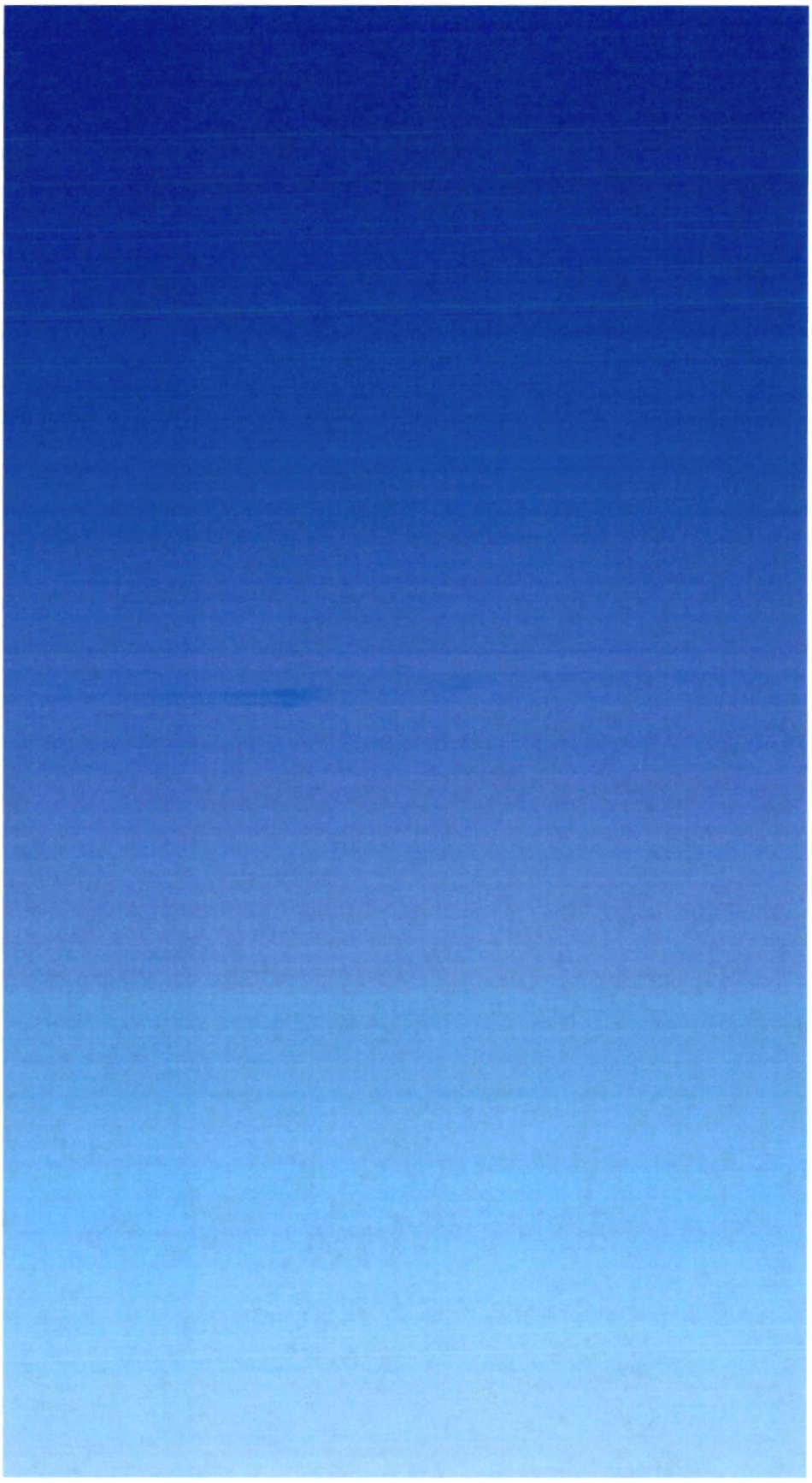


Figure 4. Metal Removal System Process Flow Diagram



Appendix 2: Environmental Evaluation



AIR SCIENCES INC.

DENVER • PORTLAND

Round Mountain Gold Corporation – Smoky Valley Common Operations Environmental Evaluation

Revision Application

PREPARED FOR:
ROUND MOUNTAIN GOLD CORPORATION

PROJECT NO. 99-217-1
OCTOBER 2026

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Attachments

Attachment A - Model Input Parameters

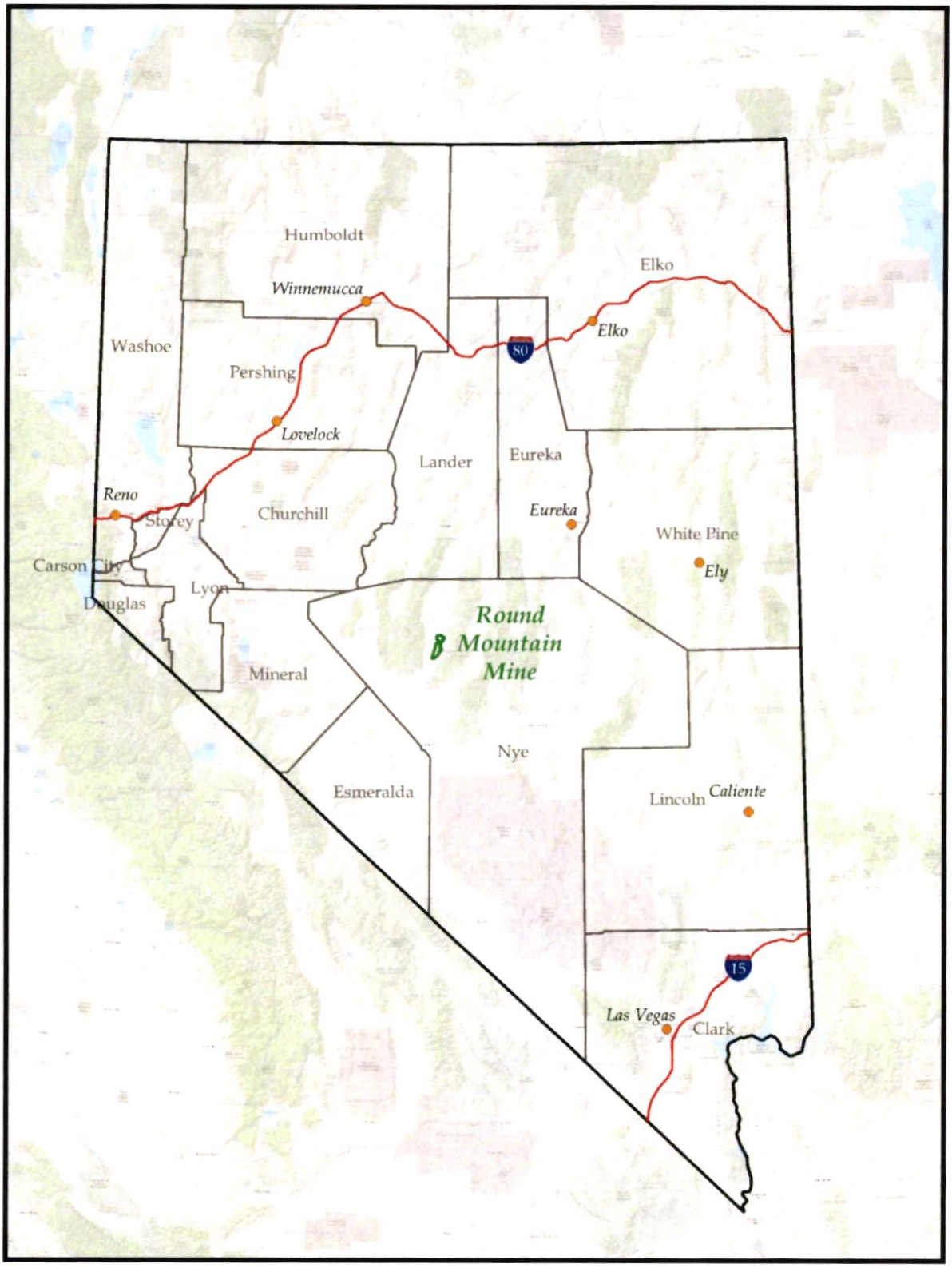
1.0 Introduction

To support Phase X underground operations, Round Mountain Gold Corporation - Smoky Valley Common Operations (RMGC) is proposing to revise Class II Air Quality Operating Permit No. AP1041-3955.01 to include a Cemented Batch Plant and Metal Removal System at the Round Mountain Mine (Round Mountain). The existing emission units at Round Mountain are permitted under Class I Air Quality Operating Permit No. AP1041-2965.01 and Class II Air Quality Operating Permit No. AP1041-3955.01.

RMGC operates the Round Mountain Mine, which employs open-pit and underground mining techniques to process and refine precious metal ore. The RMGC facility is located in the Northern Big Smoky Valley and Tonopah Flat Hydrographic Areas (HA 137B and HA 137A, respectively), in Smoky Valley, approximately 45 miles north of Tonopah on State Route 376, in Nye County, Nevada, as shown in Figure 1.

To determine the air quality impacts from the operation of the proposed and permitted RMGC sources, an AERMOD (American Meteorological Society/Environmental Protection Agency Regulatory Model) air dispersion modeling analysis was conducted. This report presents the methods that were used to evaluate the air quality impacts from the RMGC operations and to demonstrate compliance with the applicable ambient air quality standards. The source characterization and emissions that were used in the air quality analysis, the air quality dispersion model selection and modeling techniques, the receptor and meteorological data processing, the background concentrations, the ambient air quality standards, and the model results with a compliance demonstration are discussed in the report.

Figure 1. Round Mountain Facility Location Map



1.1 Model Selection

This modeling analysis was conducted using version 24142 of the AERMOD modeling system. AERMOD is an enhanced steady-state, Gaussian plume model that incorporates air dispersion based on planetary boundary layer turbulence structure and scaling concepts, including treatment of both surface and elevated sources, and both simple and complex terrain.[1] The AERMOD modeling system is listed as the recommended model for short-range analysis (up to 50 kilometers) in the United States Environmental Protection Agency (EPA)-maintained Guideline on Air Quality Models, which is published as Appendix W to the Code of Federal Regulations, Title 40, Part 51 (40 CFR 51, Appendix W).

Regulatory default options in AERMOD were used to estimate the ground-level concentrations for all the pollutants and averaging periods.

1.2 Modeled Sources

This analysis includes an evaluation of emissions from the material processing, precious metal refining, and ancillary sources within the RMGC facility. Emission sources include exhaust stacks (refinery sources, engines, silo vents, baghouses, and process and building heaters) and process fugitive emission sources (truck dumps and material transfers). Insignificant sources are also included in this modeling.

1.3 Air Pollutants

This air quality impact analysis includes modeling for the following air pollutants and averaging periods:

- Particulate matter less than 2.5 microns in aerodynamic diameter ($PM_{2.5}$): Annual and 24-hour averaging periods
- Particulate matter less than 10 microns in aerodynamic diameter (PM10): 24-hour averaging period.

1.4 Source Characterization and Model Input Parameters

The modeled short-term emission rates were calculated using hourly emissions, and the long-term rates were calculated using annual emissions. The modeled emission rates in grams per second for each source are provided in Attachment A. All the emission sources at Round Mountain were modeled as either POINT, POINTHOR, or VOLUME sources for this analysis. Sources with exhaust stacks, such as generators and silo loading controlled by vent filters, were modeled as POINT or POINTHOR sources, as appropriate. Process fugitive sources, such as

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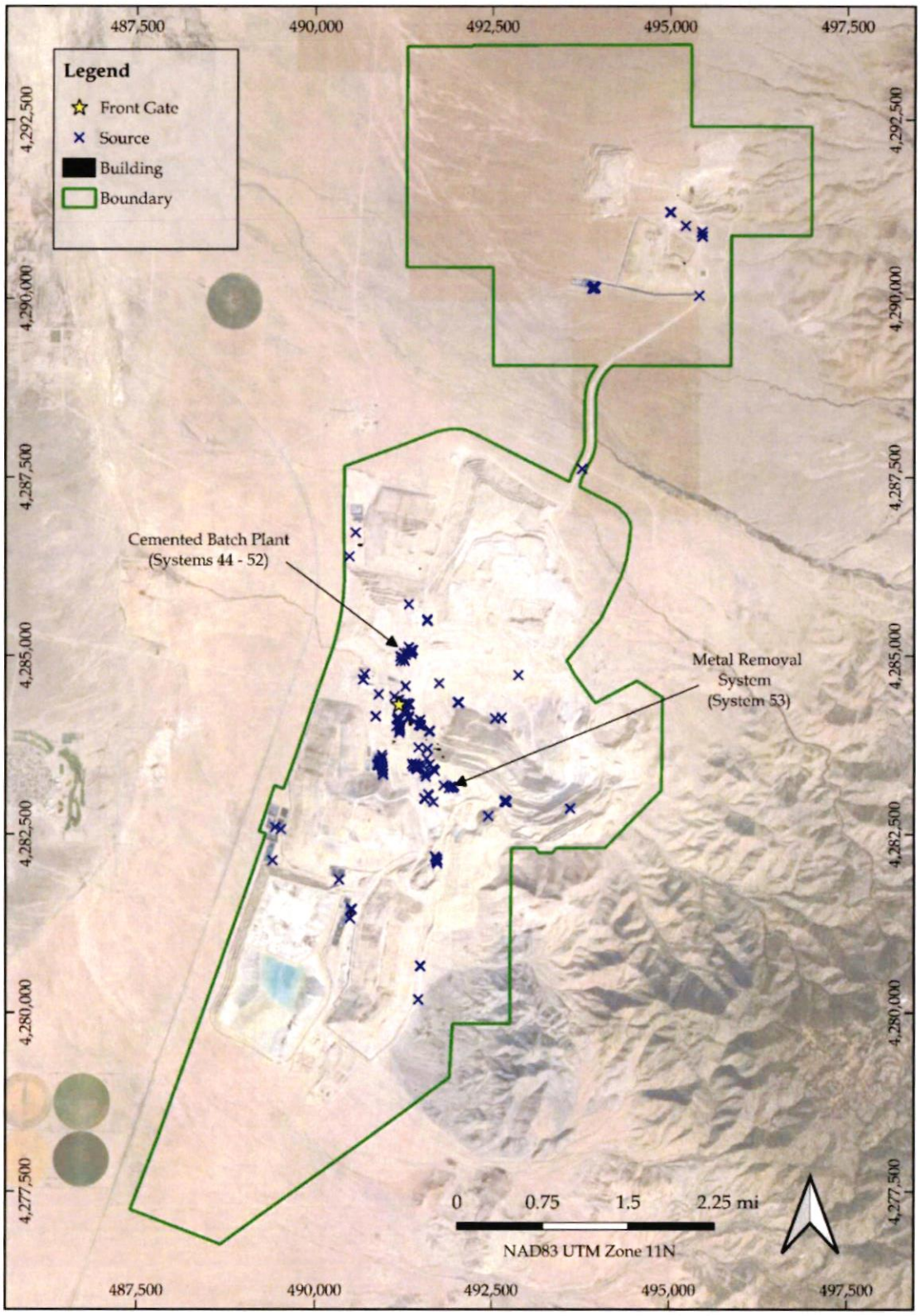
[1] United States Environmental Protection Agency (EPA). *AERMOD: Description of Model Formulation*. EPA-454/R-03-004. September 2004.

material transfers, crushers, and screens, were modeled as VOLUME sources. The model input parameters for each source are presented in Attachment A. A plot plan showing the building and source layout is provided in Figure 2.

All process fugitive sources (not exhausting through a stack) were characterized as VOLUME sources. The initial lateral and vertical dispersion parameters were calculated based on approximate source dimensions and coefficients in EPA guidance.[2] All source locations, release parameters, and modeled emission rates are provided in Attachment A.

[2] EPA. 2024. User's Guide for the AMS/EPA Regulatory Model - AERMOD. EPA-454/B-24-007. November 2024.

Figure 2. Round Mountain Facility Layout



1.5 Coordinate System

The Universal Transverse Mercator (UTM) North American Datum of 1983 (NAD83), Zone 11 coordinate system was used in this modeling analysis to define all locations in the modeling domain (sources, buildings, and receptors).

1.6 Building Downwash

The effects of building-induced downwash were incorporated into this modeling analysis. The building downwash parameters were calculated using the most recent version of the Building Profile Input Program (BPIP) with the Plume Rise Model Enhancement (PRIME) algorithm (BPIPPRM version 04274).

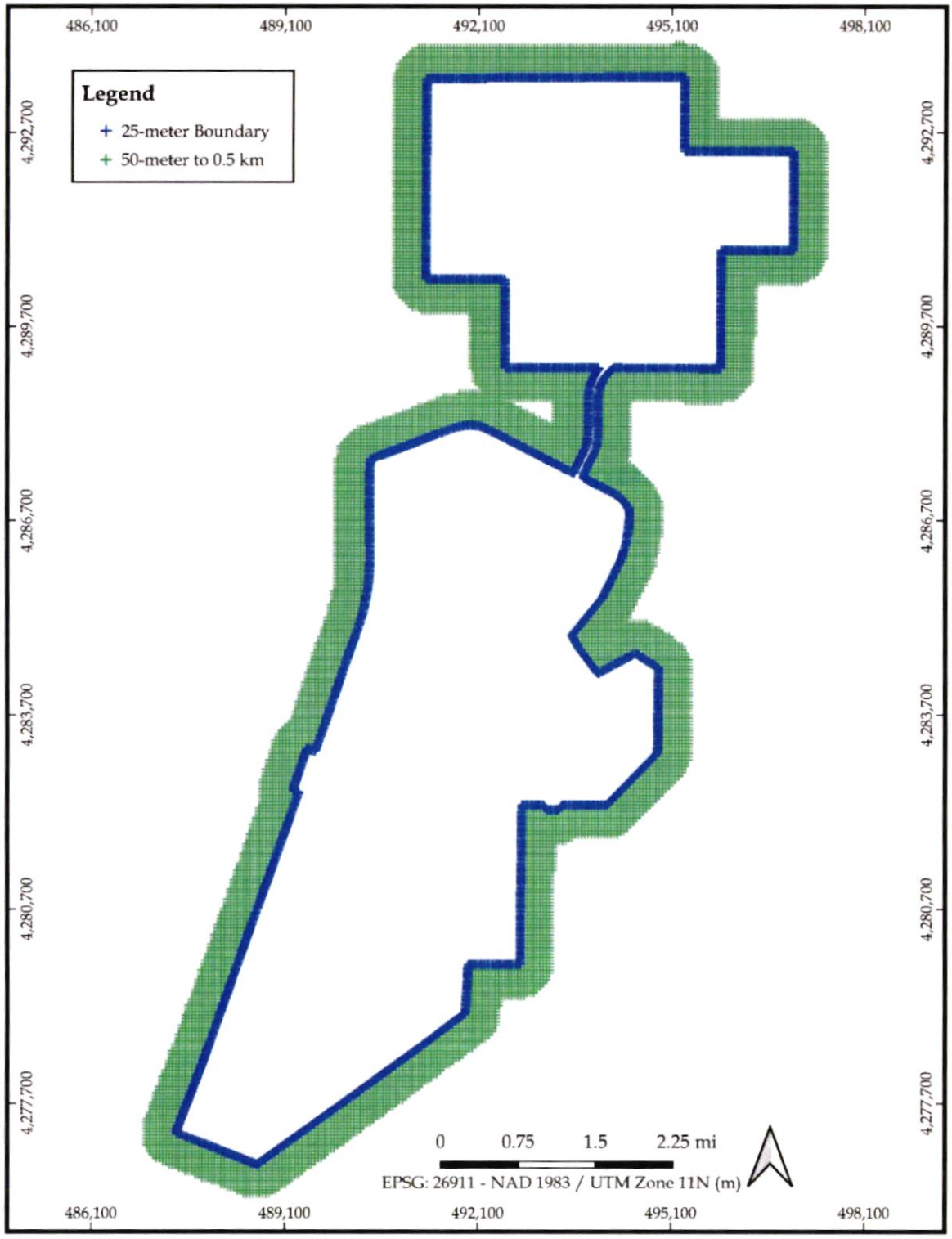
1.7 Ambient Air Boundary and Receptors

A series of the following nested Cartesian receptor grids was used to assess ground-level concentrations at and beyond the facility boundary:

- Boundary line receptors at 25-meter spacing
- Near-field receptors at 50-meter spacing, out to 500 meters from the modeling boundary

The modeling boundary (ambient air boundary) delineates where public access is restricted and primarily follows the Plan of Operations boundary. A combination of fences, gates, berms, signs, and terrain are used along the boundary to restrict public access. Receptors within the modeling boundary were not modeled. The modeled receptors are shown in Figure 3.

Figure 3. Modeled Receptors



1.8 Meteorological Data

AERMOD requires an input of hourly meteorological data to estimate pollutant concentrations in ambient air resulting from modeled source emissions. The EPA's Guideline on Air Quality Models (Appendix W to 40 CFR 51) states that one year of site-specific data, or five years of representative hourly surface data, should be used for AERMOD dispersion modeling.

This analysis used one year (April 1, 2014, to March 31, 2015) of site-specific hourly surface meteorological data collected at the Gold Hill station and concurrent upper air meteorological data from Elko, Nevada. AERMOD-ready meteorological data files were provided by the Nevada Division of Environmental Protection, Bureau of Air Quality Planning (NDEP-BAQP) on November 18, 2025. These files were processed by NDEP-BAQP using version (24142) of the AERMOD meteorological preprocessor AERMET, including adjusted u* (ADJ_U*) processing.

1.9 Background Concentrations

Background concentrations were added to the modeled concentrations to account for the prevailing air pollution in the modeling domain before comparison with standards for compliance demonstration. Table 1 presents the NDEP-recommended background concentrations for air quality impact analyses for projects located in rural areas of Nevada.

Table 1. NDEP Default Background Concentrations for Rural Areas of Nevada

Pollutant	Averaging Period	Background Concentration ($\mu g/m^3$)
$PM_{2.5}$	Annual	2.3
	24-Hour	8.0
PM_{10}	24-Hour	10.2

1.10 Ambient Air Quality Standards

Ambient air quality standards establish maximum allowable concentrations of pollutants in ambient air. These maximum levels are considered protective of public health. Environmental regulatory authorities establish these standards for air pollutants with known or anticipated human health effects. The estimated total ambient concentrations (modeled concentrations plus applicable background concentrations) from this analysis were compared with the Nevada Ambient Air Quality Standards (NvAAQS) to demonstrate compliance. The NvAAQS are presented in Table 2.

Table 2. NvAAQS for Compliance Demonstration

Pollutant	Averaging Period	NvAAQS (µg/m³)	Form of NvAAQS Standard for Modeling
$PM_{2.5}$	Annual	12	Annual mean
	24-Hour	35	98th percentile (high-eighth-high concentration)
PM_{10}	24-Hour	150	Not to be exceeded (high-first high concentration)

1.11 Modeling Results and Compliance with NvAAQS

The maximum modeled concentrations, estimated total impacts (modeled concentrations plus background concentrations), and comparisons with the applicable NvAAQS are presented in Table 3.

Table 3. Modeling Results and NvAAQS Compliance Demonstration

Pollutant	Averaging Period	Maximum Impact (µg/m³)	Background Concentration (µg/m³)	Total Impact (µg/m³)	NvAAQS (µg/m³)	Compliance
$PM_{2.5}$	Annual	0.7	2.3	3.0	12	Yes
	24-Hour[a]	5.0	8.0	13.0	35	Yes
PM_{10}	24-Hour[b]	28.0	10.2	38.2	150	Yes

[a] Highest-eighth-high daily modeled concentration

[b] For a conservative analysis, the highest-first-high modeled concentration was used to demonstrate compliance with the NvAAQS.

As shown in Table 3, the estimated maximum total ambient concentrations for all the pollutants and averaging periods are below the applicable NvAAQS. The locations of the maximum modeled impacts are shown in Figure 4.

Figure 4. Maximum Modeled Impacts



Attachment A – Model Input Parameters

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS						
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m)	temp (K) oy (m)	vel (m/s) oz (m)	dia (m)
PF1001	PF1.001	Truck Dump to 104" Krupp Apron Feeder (F-1)	491,700	4,283,381	1,874	VOLUME	0.094	0.014	0.0065	2.3	1.5	2.1	
PF01ALT	PF1.001(alt)	Truck Dump to 104" Krupp Apron Feeder (F-1)	491,700	4,283,381	1,874	VOLUME	0.62	0.094	0.0027	2.3	1.5	2.1	
PF1001_1	PF1.001A	104" Krupp Apron Feeder (F-1) transfer to Fuller Gyratory Crusher	491,682	4,283,402	1,867	VOLUME	0.094	0.014	0.0068	5.3	0.85	1.1	
PF1_1ALT	PF1.001A(alt)	104" Krupp Apron Feeder (F-1) transfer to Fuller Gyratory Crusher	491,682	4,283,402	1,867	VOLUME	0.62	0.094	0.0027	5.3	0.85	1.1	
DC_81	DC-81	Baghouse DC-81 Stack - Control for System 01B	491,678	4,283,413	1,865	POINT	0.044	0.044	0.038	4.6	-	14.9	1.0
DC_82	S2.005	Baghouse DC-82 Stack - Control for: 60" Wide Conveyor C-4 transfer to 60" Radial Stacker C-5 (S2.005)	491,579	4,283,554	1,865	POINT	0.15	0.15	0.13	9.1	-	22.1	0.48
PF02	PF1.002	60" Radial Stacker C-5 transfer to Ore Stockpile	491,475	4,283,448	1,863	VOLUME	0.094	0.014	0.0068	27.4	0.35	5.7	
PF02_ALT	PF1.002	60" Radial Stacker C-5 transfer to Ore Stockpile	491,475	4,283,448	1,863	VOLUME	0.62	0.094	0.0027	27.4	0.35	5.7	
PF1028	PF1.028	Cone Discharge Conveyor Belt Transfer	491,728	4,282,130	1,936	VOLUME	0.21	0.031	0.027	2.7	0.21	0.28	
DC_ER1	S2.060	**3-deck Screen** and Associated Transfers (In from Overhead Conveyor; Out to X-Belt #1, X-Belt #2, and Product Feed Conveyor)	491,724	4,282,148	1,932	POINT	0.045	0.045	0.039	5.8	-	24.3	0.15
PF1029	PF1.029	Cone Feed Conveyor Loading from X-Belt #1 & X-Belt #2	491,724	4,282,148	1,932	VOLUME	0.104	0.0157	0.0135	1.2	0.21	0.28	
DC_ER2	S2.061	**Cone Crusher** and Associated Transfers (In from Cone Feed; Out to Cone Discharge Conveyor Belt)	491,740	4,282,140	1,935	POINT	0.045	0.045	0.039	6.1	-	24.3	0.15
PF1030	PF1.030	Product Feed to Product Stacker	491,720	4,282,162	1,926	VOLUME	0.104	0.016	0.0135	1.2	0.21	0.57	
PF1031	PF1.031	Product Stacker to Stockpile	491,703	4,282,186	1,917	VOLUME	0.104	0.016	0.0135	8.2	0.21	0.71	
PF1028a	PF1.028a	Cone Discharge Conveyor Belt Transfer (Alternate Location)	492,698	4,282,963	1,932	VOLUME	0.208	0.031	0.0270	2.7	0.21	0.28	
DC_ER1a	S2.060a	3-deck Screen and Associated Transfers (In from Overhead Conveyor; Out to X-Belt #1, X-Belt #2, and Product Feed Conveyor) (Alternate Location)	492,703	4,282,951	1,932	POINT	0.045	0.045	0.0389	5.8	0.00	24.31	0.152
PF1029a	PF1.029a	Cone Feed Conveyor Loading from X-Belt #1 & X-Belt #2 (Alternate Location)	492,703	4,282,951	1,932	VOLUME	0.104	0.016	0.0135	1.2	0.21	0.28	

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS						
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)
DC_ER2a	S2.061a	Cone Crusher and Associated Transfers (In from Cone Feed; Out to Cone Discharge Conveyor Belt) (Alternate Location)	492,708	4,282,959	1,932	POINT	0.045	0.045	0.0389	6.1	0.00	24.31	0.152
PF1030a	PF1.030a	Product Feed to Product Stacker (Alternate Location)	492,690	4,282,952	1,932	VOLUME	0.104	0.016	0.0135	1.2	0.21	0.57	
PF1031a	PF1.031a	Product Stacker to Stockpile (Alternate Location)	492,675	4,282,952	1,932	VOLUME	0.104	0.016	0.0135	8.2	0.21	0.71	
S2006	S2.006	Lime Silo 1 Loading	491,594	4,283,702	1,860	POINT	0.0026	3.9E-4	3.2E-5	17.7	-	1.0E-3	0.10
PF1003	PF1.003	Lime Silo 1 Discharge	491,594	4,283,698	1,861	VOLUME	0.0071	0.0011	2.7E-4	1.5	0.14	0.28	
S2007	S2.007	Lime Silo 5 Loading	491,457	4,280,178	1,891	POINT	0.0026	3.9E-4	6.5E-5	16.2	-	1.0E-3	0.10
PF1004	PF1.004	Lime Silo 5 Discharge	491,460	4,280,183	1,891	VOLUME	0.0071	0.0011	5.3E-4	4.6	0.21	4.3	
S20071	S2.007.1	Lime Silo RM5 with a Guppy - Loading (Alternate location)	491,591	4,285,486	1,878	POINT	0.0026	3.9E-4	6.5E-5	16.2	-	1.0E-3	0.10
PF10041	PF1.004.1	Lime Silo RM5 with Guppy - Discharge (Alternate location)	491,596	4,285,486	1,878	VOLUME	0.0071	0.0011	5.3E-4	4.6	0.21	4.3	
S2008	S2.008	Lime Silo 2 Loading	491,462	4,283,713	1,854	POINT	0.0026	3.9E-4	6.5E-5	17.7	-	1.0E-3	0.10
PF1005	PF1.005	Lime Silo 2 Discharge	491,462	4,283,713	1,864	VOLUME	0.0071	0.0011	5.3E-4	1.5	0.14	0.28	
S2009	S2.009	Lime Silo 3 Loading	491,556	4,282,987	1,864	POINT	0.0026	3.9E-4	6.5E-5	14.7	-	1.0E-3	0.21
PF1006	PF1.006	Lime Silo 3 Discharge	491,546	4,282,998	1,863	VOLUME	0.0071	0.0011	5.3E-4	3.8	0.21	3.5	
S2010	S2.010	Lime Silo 4 Loading	491,615	4,283,043	1,865	POINT	0.0026	3.9E-4	6.5E-5	14.6	-	1.0E-3	0.15
PF1007	PF1.007	Lime Silo 4 Discharge	491,605	4,283,053	1,865	VOLUME	0.0071	0.0011	5.3E-4	3.8	0.21	3.5	
S2010alt	S2.010alt	Lime Silo 4 Loading (alt)	491,495	4,280,655	1,890	POINT	0.0026	0.0004	6.5E-5	14.6	0.00	0.0	0.152
PF1007alt	PF1.007alt	Lime Silo 4 Discharge (alt)	491,483	4,280,659	1,885	VOLUME	0.0071	0.0011	5.3E-4	3.8	0.21	3.5	

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m)	temp (K)	vel (m/s)	dia (m)
											σy (m)	σz (m)	
PF1008	PF1.008	Truck Dump transfer to Gyratory Crusher	491,565	4,283,309	1,880	VOLUME	0.035	0.0054	0.0046	2.3	0.85	0.71	
PF13alt	PF1.008	Truck Dump transfer to Gyratory Crusher	491,565	4,283,309	1,880	VOLUME	0.24	0.036	0.0020	2.3	0.85	0.71	
DCT_1	DCT-1	Baghouse DCT-1 Stack - Control for System 20B	491,569	4,283,304	1,878	POINT	0.021	0.021	0.018	9.1	-	14.3	0.82
PF1009_1	PF1.009	36"x76' Conveyor MC-1transfer to Radial Stacker MC-2	491,563	4,283,355	1,859	VOLUME	0.118	0.018	0.015	2.0	0.21	0.21	
PF1010	PF1.010	Radial Stacker MC-2 transfer to Ore Stockpile	491,536	4,283,455	1,869	VOLUME	0.035	0.0054	0.0046	19.8	0.28	9.9	
PF10alt	PF1.010	Radial Stacker MC-2 transfer to Ore Stockpile	491,536	4,283,455	1,869	VOLUME	0.24	0.036	0.0020	19.8	0.28	9.9	
PF1011_3	PF1.011-13	Apron Feeders: Apron Feeders MF-2 , MF-3 and MF-4 transfers to Conveyor MC-3	491,475	4,283,448	1,856	VOLUME	0.055	0.0084	0.0084	1.5	0.99	1.4	
S2013	S2.013	Lime Silo for Mill - Loading (discharge to lime slaker IA1.084)	491,434	4,283,408	1,852	POINT	0.0026	3.9E-4	3.3E-6	10.7	-	1.0E-3	0.15
S2014	S2.014	Electric Induction Furnace (Inductotherm) (MOPTC AP1041-2250, TU4.005)	490,924	4,283,488	1,828	POINT	0.076	0.076	0.076	7.6	422	23.0	0.41
S2015	S2.015	Carbon Regeneration Kiln (hearth) (MOPTC AP1041-2250, TU4.001)	490,918	4,283,529	1,826	POINT	0.063	0.063	0.063	7.6	358	12.0	0.21
S2021	S2.021	Emergency Diesel Generator (560 HP, Cummins CC534C, SN#1279/01, Year 1996)	490,944	4,283,567	1,829	POINT	0.16	0.16	0.0018	2.4	802	63.3	0.13
DCT_6	S2.022	Baghouse DCT-6 Stack - Control for: Nordberg Symons 4 ¼ Cone Crusher and associated transfer (In from Conveyor MC-05 (via chute), Out to Conveyor MC-07)	491,455	4,283,454	1,854	POINT	0.022	0.022	0.022	7.6	-	20.1	0.20
PF1016	PF1.016	Conveyor MC-07 and Bypass Conveyor MC-06 transfer to Conveyor MC-03 or Pebble Stockpile	491,455	4,283,454	1,853	VOLUME	0.017	0.0026	0.0026	2.0	0.21	0.21	
S2023	S2.023	Emergency Diesel Generator (1,179 HP, Caterpillar, Model No. 3412, Serial No. 2WJ01001, Manufactured pre 2006)	491,419	4,283,486	1,853	POINT	0.10	0.10	0.0012	3.7	791	19.9	0.25
S2067	S2.067	Back-Up Main Gate Generator (30 kW, mfg 2009 or newer)	491,171	4,284,295	1,835	POINT	0.0019	0.0019	2.2E-5	0.61	478	0.6	0.421
S2027	S2.027	Dispatch Generator (96.5 hp, John Deere, Manufactured 2009)	490,893	4,284,463	1,880	POINT	0.0080	0.0080	9.1E-5	0.91	811	29.8	0.15
S2028	S2.028	Repeater #1 Emergency Generator (7 kW, Generac 005837-0, Year 2011+)	491,321	4,285,717	1,913	POINT	7.9E-4	7.9E-4	9.1E-6	0.91	700	77.7	0.051

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)
S2029	S2.029	Repeater #2 Emergency Generator (7 kW, Generac 005837-0, Year 2011+)	492,878	4,284,728	1,874	POINT	7.9E-4	7.9E-4	9.1E-6	0.91	700	77.7	0.051
S2030	S2.030	Repeater #3 Emergency Generator (7 kW, Generac 005837-0, Year 2011+)	492,450	4,282,751	1,996	POINT	7.9E-4	7.9E-4	9.1E-6	0.91	700	77.7	0.051
S2032	S2.032	Repeater #5 Emergency Propane Generator (12.0 hp/8.9 kW, Mfg. 2003)	491,113	4,284,431	1,830	POINT	5.8E-4	5.8E-4	6.6E-6	0.91	700	77.7	0.051
S2033	S2.033	Repeater #6 Emergency Generator (7 kW, Generac 005837-0, Year 2011+)	490,340	4,281,865	1,803	POINT	7.9E-4	7.9E-4	9.1E-6	0.91	700	77.7	0.051
S2034	S2.034	Repeater #7 Emergency Generator (7 kW, Generac 005837-0, Year 2011+)	489,411	4,282,131	1,773	POINT	7.9E-4	7.9E-4	9.1E-6	0.91	700	77.7	0.051
S2035	S2.035	Repeater #8 Emergency Propane Generator (<18.6 kW, Mfg. 2009 or newer)	489,529	4,282,567	1,772	POINT	8.3E-4	8.3E-4	9.4E-6	0.91	700	77.7	0.051
S2037	S2.037	Emergency Diesel Generator (130≤kW<447, Mfg. 2007 or newer)	490,568	4,286,722	1,785	POINT	0.025	0.025	2.8E-4	1.6	798	28.0	0.20
PF1017	PF1.017	Portable Bucket Crusher	491,763	4,284,616	1,833	VOLUME	0.018	0.0027	0.0027	1.1	0.35	0.21	
S2040	S2.040	Lime Silo 7 Loading	490,484	4,286,385	1,816	POINT	0.0026	3.9E-4	6.5E-5	11.6	-	1.0E-3	0.10
PF1018	PF1.018	Lime Silo 7 Unloading	490,484	4,286,385	1,816	VOLUME	0.0071	0.0011	5.3E-4	3.8	0.14	0.35	
CA_007	CA_007	ADR Fluid System (Control for S2.016-018 and S2.052)	490,924	4,283,475	1,828	POINT	0.0461	0.0461	0.0461	12.2	339	5.4	0.60
PF1032	PF1.032	Hopper Loading	492,544	4,284,125	1,416	VOLUME	0.007	0.0010	0.0010	4.0	0.28	0.3	
PF1033	PF1.033	Hopper Transfer to Mixer (Mixer to Truck via wet process)	492,544	4,284,128	1,416	VOLUME	0.003	0.0005	0.0005	2.4	0.28	0.3	
PF1019	PF1.019	Loader to Grizzly Feeder B	491,736	4,282,095	1,936	VOLUME	0.104	0.0157	0.0135	5.3	0.85	1.1	
PF1020	PF1.020	Grizzly Feeder B to Crusher B/Crusher B Bypass	491,734	4,282,102	1,936	VOLUME	0.104	0.0157	0.0135	3.0	0.28	0.71	
GHBH_1b	GHBH-1b	Baghouse GHBH-1b Stack (Control for S2.041-43)	491,734	4,282,102	1,932	POINT	0.021	0.021	0.018	9.1	-	25.1	0.53
PF1021	PF1.021	Telestacker GHC-04B Discharge	491,728	4,282,130	1,936	VOLUME	0.104	0.0157	0.0135	2.3	0.21	2.1	

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) oy (m)	vel (m/s) oz (m)	dia (m)
PF1019a	PF1.019a	Loader to Grizzly Feeder B (Alternate Location)	492,710	4,282,950	1,932	VOLUME	0.104	0.0157	0.0135	5.3	0.85	1.1	
PF1020a	PF1.020a	Grizzly Feeder B to Crusher B/Crusher B Bypass (Alternate Location)	492,707	4,282,950	1,932	VOLUME	0.104	0.0157	0.0135	3.0	0.28	0.7	
GHBH_1ba	GHBH-1ba	Baghouse GHBH-1b Stack (Control for S2.041-43) (Alternate Location)	492,707	4,282,950	1,932	POINT	0.021	0.0205	0.0176	9.1	0.00	25.1	0.533
PF1021a	PF1.021a	Telestacker GHC-04B Discharge (Alternate Location)	492,682	4,282,971	1,932	VOLUME	0.104	0.0157	0.0135	2.3	0.21	2.1	
S2044	S2.044	Lime Silo C4 Loading	491,627	4,283,477	1,863	POINT	0.0026	3.9E-4	3.6E-5	13.7	-	1.0E-3	0.10
PF1022	PF1.022	Lime Silo C4 Discharge	490,937	4,283,610	1,829	VOLUME	0.0071	0.0011	2.9E-4	6.7	0.21	3.7	
S2045	S2.045	Lime Silo 9 Loading	490,937	4,283,610	1,829	POINT	0.0026	3.9E-4	3.6E-5	13.7	-	1.0E-3	0.10
PF1023	PF1.023	Lime Silo 9 Unloading	490,937	4,283,610	1,829	VOLUME	0.0071	0.0011	2.9E-4	6.7	0.21	3.7	
S2046	S2.046	Ded pH Skid Silo Loading	490,514	4,281,460	1,819	POINT	0.0026	3.9E-4	3.6E-5	13.7	-	1.0E-3	0.10
PF1024	PF1.024	Ded pH Skid Silo Discharge	490,512	4,281,445	1,819	VOLUME	0.0071	0.0011	2.9E-4	6.7	0.21	3.7	
S2047	S2.047	Pond 13 pH Skid Silo Loading	489,448	4,282,597	1,771	POINT	0.0026	3.9E-4	3.6E-5	13.7	-	1.0E-3	0.10
PF1025	PF1.025	Pond 13 pH Skid Silo Discharge	489,448	4,282,597	1,771	VOLUME	0.0071	0.0011	2.9E-4	6.7	0.21	3.7	
S2048	S2.048	Lime Silo 6 Loading	495,015	4,291,209	1,893	POINT	0.0026	3.9E-4	3.6E-5	10.7	-	1.0E-3	0.10
PF1026	PF1.026	Lime Silo 6 Discharge	494,998	4,291,210	1,893	VOLUME	0.0071	0.0011	2.9E-4	6.7	0.21	3.7	
S2049	S2.049	Lime Silo 8 Loading	491,589	4,285,506	1,881	POINT	0.0026	3.9E-4	3.6E-5	8.5	-	1.0E-3	0.10
PF1027	PF1.027	Lime Silo 8 Discharge	491,593	4,285,506	1,881	VOLUME	0.0071	0.0011	2.9E-4	1.5	0.14	0.28	
S2053	S2.053	Carbon Regeneration Kiln (hearth) (MOPTC AP1041-2250, TU4.006)	493,940	4,290,137	1,848	POINT	2.0E-3	2.0E-3	2.0E-3	14.9	339	3.3	0.15

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)
CA_004	CA_004	Gold Hill: Carbon Stripping (Control for S2.054-056)	493,934	4,290,177	1,848	POINT	0.0134	0.0134	0.0134	11.1	311	57.6	0.19
S2057	S2.057	Retort (MOPTC AP1041-2250, TU4.010)	493,929	4,290,150	1,848	POINT	2.0E-3	2.0E-3	2.0E-3	4.3	339	0.9	0.125
S2058	S2.058	Electric Induction Furnace (MOPTC AP1041-2250, TU4.011)	493,947	4,290,144	1,848	POINT	0.076	0.076	0.076	4.3	339	32.8	0.30
S2050	S2.050	Standby Diesel Generator (450≤kW<560, mfg. 2007 or newer)	493,958	4,290,151	1,848	POINT	0.031	0.031	3.6E-4	2.4	700	129.4	0.15
S2051	S2.051	Standby Diesel Generator (275 hp, Caterpillar, Model No. D150-8, Manufactured 2011+)	493,909	4,290,135	1,848	POINT	0.003	0.003	3.1E-5	1.8	898	28.8	0.15
S2062	S2.062	Gold Hill Gate Emergency Generator (14.4 kW, Mfg. 2009 or newer)	493,773	4,287,617	1,874	POINT	0.001	0.001	1.1E-5	0.7	700	77.7	0.05
S2066	S2.066	Lab Emergency Generator (14.4 kW, Mfg. 2009 or newer)	491,162	4,284,140	1,837	POINT	0.001	0.001	1.1E-5	0.7	700	77.7	0.05
S2068	S2.068	Emergency Diesel Generator (49 kW, Mfg. 2008 or newer)	491,161	4,284,378	1,831	POINT	0.0054	0.0054	6.2E-5	1.40	726	15.3	0.076
PF1034	PF1.034	Loader Feed to Aggregate Hoppers	492,021	4,284,351	1,600	VOLUME	6.0E-2	9.1E-3	9.1E-3	3.96	0.57	0.4	
PF1035	PF1.035	Aggregate Hoppers discharge to Aggregate Weigh Belt	492,021	4,284,351	1,600	VOLUME	1.2E-2	1.8E-3	1.8E-3	1.37	0.21	0.2	
PF1036	PF1.036	Aggregate Weigh Belt to Aggregate Incline Conveyor	492,024	4,284,350	1,600	VOLUME	1.2E-2	1.8E-3	1.8E-3	1.98	0.21	0.2	
S2069	S2.069	Cement Silo Loading	492,035	4,284,353	1,600	POINT	3.1E-2	4.7E-3	1.0E-3	12.19	0.00	6.5	0.305
PF1037	PF1.037	Cement Silo Unloading to Cement Weigh Hopper (via enclosed screw feeder)	492,036	4,284,346	1,600	VOLUME	2.6E-3	4.0E-4	2.9E-4	9.30	0.14	0.2	
S2070	S2.070	Mixing Plant Loading from Aggregate Incline Conveyor and Cement Weigh Hopper (Mixer Discharge to Truck via Wet Process)	492,036	4,284,346	1,600	POINT	1.0E-2	1.6E-3	1.1E-3	9.14	0.00	6.5	0.305
PF1038	PF1.038	Loader Feed to Feed Chute	491,199	4,284,986	1,907	VOLUME	3.5E-2	5.2E-3	2.3E-3	2.44	0.43	0.3	
PF1039	PF1.039	Feed Chute to Alluvium Feeder	491,199	4,284,986	1,907	VOLUME	1.7E-2	2.6E-3	1.1E-3	1.37	0.28	0.2	
PF1040	PF1.040	Alluvium Feeder to Screen Feed Incline Conveyor	491,205	4,284,994	1,907	VOLUME	1.7E-2	2.6E-3	1.1E-3	4.11	0.21	0.2	

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) oy (m)	vel (m/s) oz (m)	dia (m)
PF1041	PF1.041	Screen (IN: Screen Feed Incline Conveyor; OUT: Undersize Incline Conveyor, Midsize Incline Conveyor, and Oversize Stacker Conveyor)	491,240	4,284,971	1,907	VOLUME	1.4E-1	2.1E-2	8.9E-3	4.11	0.43	0.2	
PF1042	PF1.042	Midsize Incline Conveyor to Midsize Radial Stacker	491,249	4,284,963	1,907	VOLUME	1.7E-2	2.6E-3	1.1E-3	11.43	0.21	1.8	
PF1043	PF1.043	Undersize Incline Conveyor to Undersize Radial Conveyor	491,277	4,285,012	1,907	VOLUME	1.7E-2	2.6E-3	1.1E-3	3.20	0.21	0.2	
PF1044a	PF1.044a	Undersize Radial Conveyor to Screened Alluvium Chute	491,302	4,285,046	1,907	VOLUME	3.5E-2	5.2E-3	2.3E-3	3.20	0.21	0.2	
PF1044b	PF1.044b	Undersize Radial Conveyor to Stockpile	491,252	4,285,038	1,907	VOLUME	0.0E+0	0.0E+0	0.0E+0	6.86	0.21	1.1	
PF1045	PF1.045	Oversize Stacker Conveyor to Stockpile	491,206	4,284,927	1,907	VOLUME	3.5E-2	5.2E-3	2.3E-3	11.43	0.21	1.8	
PF1046	PF1.046	Midsize Radial Stacker to Stockpile	491,265	4,284,927	1,907	VOLUME	3.5E-2	5.2E-3	2.3E-3	6.86	0.21	1.1	
PF1047	PF1.047	Screened Alluvium Chute to Surge Bin Feed Incline Conveyor	491,302	4,285,046	1,907	VOLUME	3.5E-2	5.2E-3	2.3E-3	2.29	0.21	0.1	
PF1048	PF1.048	Surge Bin Feed Incline Conveyor to Screened Alluvium Surge Bin	491,327	4,285,114	1,896	VOLUME	1.7E-2	2.6E-3	1.1E-3	2.74	0.21	0.1	
PF1049	PF1.049	Screened Alluvium Surge Bin to Screened Alluvium Feeder	491,327	4,285,114	1,896	VOLUME	3.5E-2	5.2E-3	2.3E-3	1.68	0.21	0.1	
PF1050	PF1.050	Screened Alluvium Feeder to HPGR Feed Incline Conveyor	491,328	4,285,117	1,896	VOLUME	1.7E-2	2.6E-3	1.1E-3	1.68	0.21	0.1	
PF1051	PF1.051	Loader Feed to HPGR Feed Incline Conveyor (via Hopper)	491,321	4,285,123	1,896	VOLUME	3.5E-2	5.2E-3	2.3E-3	2.44	0.43	0.3	
S2071	S2.071	HPGR Crusher (IN: HPGR Feed Incline Conveyor; OUT: Ground Alluvium Conveyor)	491,355	4,285,073	1,870	POINT	2.3E-1	2.3E-1	2.3E-1	9.14	0.00	67.9	0.305
PF1052	PF1.052	Ground Alluvium Conveyor to Stockpile	491,378	4,285,085	1,870	VOLUME	3.5E-2	5.2E-3	2.3E-3	4.57	0.21	0.7	
S2072	S2.072	Mixer Loading from Cement Screw Conveyor and Ground Alluvium Conveyor (Mixer Unloading via wet process)	491,367	4,285,057	1,870	POINT	6.9E-3	1.0E-3	6.0E-4	9.14	0.00	7.1	0.305
S2073	S2.073	Cement Silo Loading (Unloading to Mixer via Fully Enclosed Loss-in-Weight Feeder and Cement Screw Feeder)	491,363	4,285,050	1,870	POINT	2.1E-3	3.1E-4	3.6E-5	15.24	0.00	6.5	0.305
S2074	S2.074	Cemented Batch Plant Diesel-Fired Emergency Generator (≤2,898 kW, mfd. 2006 or newer)	491,387	4,285,077	1,870	POINT	1.6E-1	1.6E-1	1.8E-3	3.35	753.71	316.2	0.203

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)
PF1053	PF1.053	Loader to Apron Feeder (via Static Grizzly)	491,973	4,283,169	1,880	VOLUME	6.2E-2	9.4E-3	4.8E-3	5.49	0.43	0.3	
PF1054	PF1.054	Apron Feeder Discharge to Belt Conveyor #1	491,953	4,283,146	1,880	VOLUME	3.1E-2	4.7E-3	2.4E-3	3.35	0.28	0.1	
PF1055	PF1.055	Belt Conveyor #1 Discharge to Belt Conveyor #2	491,924	4,283,166	1,880	VOLUME	3.1E-2	4.7E-3	2.4E-3	3.35	0.21	0.1	
PF1056	PF1.056	Belt Conveyor #2 Discharge to Stacker Conveyor	491,903	4,283,144	1,880	VOLUME	3.1E-2	4.7E-3	2.4E-3	3.35	0.21	0.1	
PF1057	PF1.057	Stacker Conveyor Discharge to Stockpile	491,825	4,283,179	1,880	VOLUME	6.2E-2	9.4E-3	4.8E-3	6.86	0.21	1.1	
IA1001	IA1.001	Carbon Strip Propane-fired Solution Heater #1E	490,916	4,283,521	1,829	POINT	0.0019	0.0019	0.0019	19.2	600	6.8	0.30
IA02	IA1.002	Carbon Strip Propane-fired Solution Heater #1W	490,911	4,283,521	1,829	POINT	0.0019	0.0019	0.0019	19.2	600	6.8	0.30
IA03	IA1.003	Safety Building Heater #1NE	491,268	4,284,339	1,838	POINT	2.9E-4	2.9E-4	2.9E-4	4.6	600	4.1	0.15
IA04	IA1.004	Safety Building Heater #1SE	491,275	4,284,328	1,838	POINT	2.9E-4	2.9E-4	2.9E-4	4.6	600	4.1	0.15
IA05	IA1.005	Mine Office Heater #1NE	491,335	4,284,327	1,838	POINT	1.4E-4	1.4E-4	1.4E-4	4.6	600	4.6	0.10
IA06	IA1.006	Mine Office Heater #1SE	491,334	4,284,320	1,838	POINT	1.4E-4	1.4E-4	1.4E-4	4.6	600	4.6	0.10
IA07	IA1.007	Mine Office Heater #2E	491,327	4,284,324	1,838	POINT	4.8E-5	4.8E-5	4.8E-5	4.6	600	1.5	0.10
IA08	IA1.008	Mine Office Heater #2C	491,318	4,284,328	1,838	POINT	4.8E-5	4.8E-5	4.8E-5	4.6	600	1.5	0.10
IA09	IA1.009	Mine Office Heater #2W	491,310	4,284,329	1,838	POINT	4.8E-5	4.8E-5	4.8E-5	4.6	600	1.5	0.10
IA10	IA1.010	Mine Office Heater #2SW	491,306	4,284,324	1,838	POINT	4.8E-5	4.8E-5	4.8E-5	4.6	600	1.5	0.10
IA11	IA1.011	Mine Office Heater #2NW	491,303	4,284,334	1,838	POINT	4.8E-5	4.8E-5	4.8E-5	4.6	600	1.5	0.10
IA12	IA1.012	Cashman Building Heater #1N	491,327	4,284,157	1,842	POINT	5.8E-4	5.8E-4	5.8E-4	13.1	600	18.4	0.10

Round Mountain Mine
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SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS						
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) oy (m)	vel (m/s) oz (m)	dia (m)
IA13	IA1.013	Cashman Building Heater #2W	491,326	4,284,132	1,842	POINT	1.4E-4	1.4E-4	1.4E-4	13.1	600	4.6	0.10
IA14	IA1.014	Cashman Building Heater #2NW	491,322	4,284,136	1,842	POINT	1.4E-4	1.4E-4	1.4E-4	13.1	600	2.0	0.15
IA15	IA1.015	Cashman Building Heater #2SW	491,325	4,284,126	1,842	POINT	1.4E-4	1.4E-4	1.4E-4	13.1	600	2.0	0.15
IA16	IA1.016	Assay Laboratory Heater #5W	491,153	4,284,108	1,837	POINT	2.9E-5	2.9E-5	2.9E-5	4.6	600	0.41	0.15
IA17	IA1.017	Assay Laboratory Heater #5E	491,180	4,284,108	1,837	POINT	2.9E-5	2.9E-5	2.9E-5	4.6	600	0.41	0.15
IA18	IA1.018	General Maintenance Heater #1	491,181	4,283,921	1,841	POINT	5.8E-5	5.8E-5	5.8E-5	5.8	600	0.82	0.15
IA19	IA1.019	Plant Maintenance Heater #1NE	491,191	4,284,026	1,839	POINT	1.7E-4	1.7E-4	1.7E-4	5.8	600	2.3	0.15
IA20	IA1.020	Plant Maintenance Heater #1NW	491,190	4,284,024	1,839	POINT	1.7E-4	1.7E-4	1.7E-4	5.8	600	2.3	0.15
IA21	IA1.021	Plant Maintenance Heater #1SE	491,197	4,283,975	1,839	POINT	1.7E-4	1.7E-4	1.7E-4	5.8	600	2.3	0.15
IA22	IA1.022	Plant Maintenance Heater #1SW	491,193	4,283,989	1,839	POINT	1.7E-4	1.7E-4	1.7E-4	5.8	600	2.3	0.15
IA23	IA1.023	Plant Maintenance Heater #2	491,187	4,283,945	1,840	POINT	4.3E-5	4.3E-5	4.3E-5	5.8	600	0.61	0.15
IA24	IA1.024	Plant Maintenance Heater #3	491,141	4,284,017	1,840	POINT	9.2E-5	9.2E-5	9.2E-5	5.8	600	1.3	0.15
IA25	IA1.025	ALPM Heater #1NW	491,466	4,284,039	1,853	POINT	2.9E-4	2.9E-4	2.9E-4	13.1	600	4.1	0.15
IA26	IA1.026	ALPM Heater #1SW	491,466	4,284,030	1,853	POINT	2.9E-4	2.9E-4	2.9E-4	13.1	600	9.2	0.10
IA27	IA1.027	ALPM Heater #1NE	491,498	4,284,039	1,853	POINT	2.9E-4	2.9E-4	2.9E-4	13.1	600	4.1	0.15
IA28	IA1.028	ALPM Heater #1SE	491,499	4,284,029	1,853	POINT	2.9E-4	2.9E-4	2.9E-4	13.1	600	9.2	0.10
IA29	IA1.029	ALPM Heater #2	491,501	4,284,014	1,853	POINT	1.4E-4	1.4E-4	1.4E-4	13.1	600	4.6	0.10

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Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS						
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)
IA30	IA1.030	South ADR Heater #1	490,875	4,283,469	1,829	POINT	0.0019	0.0019	0.0019	19.2	600	6.8	0.30
IA31	IA1.031	South ADR Heater #2S	490,888	4,283,462	1,829	POINT	9.6E-5	9.6E-5	9.6E-5	19.2	600	3.1	0.10
IA32	IA1.032	South ADR Heater #2SSW	490,879	4,283,462	1,829	POINT	9.6E-5	9.6E-5	9.6E-5	19.2	600	1.4	0.15
IA33	IA1.033	South ADR Heater #2NW	490,875	4,283,472	1,829	POINT	9.6E-5	9.6E-5	9.6E-5	19.2	600	3.1	0.10
IA34	IA1.034	South ADR Heater #2SW	490,875	4,283,466	1,829	POINT	9.6E-5	9.6E-5	9.6E-5	19.2	600	3.1	0.10
IA35	IA1.035	South ADR Heater #2NW	490,905	4,283,521	1,829	POINT	9.6E-5	9.6E-5	9.6E-5	19.2	600	1.4	0.15
IA36	IA1.036	South ADR Heater #3	490,919	4,283,521	1,829	POINT	7.2E-5	7.2E-5	7.2E-5	19.2	600	1.0	0.15
IA37	IA1.037	Refinery Heater #1	490,929	4,283,484	1,829	POINT	4.8E-4	4.8E-4	4.8E-4	19.2	600	6.8	0.15
IA38	IA1.038	Met Lab Heater #1	490,949	4,283,390	1,828	POINT	1.4E-4	1.4E-4	1.4E-4	7.0	600	4.6	0.10
IA39	IA1.039	Met Lab Heater #2	490,945	4,283,410	1,828	POINT	1.6E-4	1.6E-4	1.6E-4	7.0	600	5.0	0.10
IA40	IA1.040	Met Lab Heater #3N	490,943	4,283,438	1,828	POINT	1.3E-4	1.3E-4	1.3E-4	7.0	600	4.2	0.10
IA41	IA1.041	Met Lab Heater #3W	490,942	4,283,438	1,828	POINT	1.3E-4	1.3E-4	1.3E-4	7.0	600	4.2	0.10
IA42	IA1.042	Placer Plant Heater #1	490,957	4,283,345	1,828	POINT	1.4E-4	1.4E-4	1.4E-4	4.0	600	2.0	0.15
IA43	IA1.043	Wash Bay Heater #1	491,625	4,283,936	1,857	POINT	5.8E-5	5.8E-5	5.8E-5	10.7	600	1.8	0.10
IA44	IA1.044	Wash Bay Heater #2E	491,634	4,283,951	1,857	POINT	2.9E-4	2.9E-4	2.9E-4	10.7	600	1.0	0.30
IA45	IA1.045	Wash Bay Heater #2W	491,626	4,283,954	1,857	POINT	2.9E-4	2.9E-4	2.9E-4	10.7	600	1.0	0.30
IA46	IA1.046	Wash Bay Heater #3	491,618	4,283,940	1,857	POINT	7.2E-4	7.2E-4	7.2E-4	10.7	600	2.5	0.30

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Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS						
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)
IA47	IA1.047	Booster Station Heater #1	490,493	4,281,322	1,819	POINT	1.9E-4	1.9E-4	1.9E-4	5.2	600	2.7	0.15
IA48	IA1.048	Survey Shed Heater #1	491,278	4,284,576	1,832	POINT	1.9E-4	1.9E-4	1.9E-4	4.6	600	2.7	0.15
IA49	IA1.049	Mill Maintenance Building Heater #1	491,362	4,283,483	1,851	POINT	1.5E-4	1.5E-4	1.5E-4	4.6	600	4.9	0.10
IA50	IA1.050	Placer Plant Heater #2	490,953	4,283,329	1,828	POINT	1.5E-4	1.5E-4	1.5E-4	4.0	600	4.9	0.10
IA51	IA1.051	Met Lab Heater #4	490,948	4,283,416	1,828	POINT	1.5E-4	1.5E-4	1.5E-4	7.0	600	4.9	0.10
IA52	IA1.052	Refinery Heater #2	490,898	4,283,521	1,829	POINT	1.5E-4	1.5E-4	1.5E-4	19.2	600	4.9	0.10
IA53	IA1.053	Mill Building Heater #1NW	491,405	4,283,466	1,852	POINT	1.3E-4	1.3E-4	1.3E-4	10.1	600	1.8	0.15
IA54	IA1.054	Mill Building Heater #1W	491,389	4,283,447	1,852	POINT	1.3E-4	1.3E-4	1.3E-4	10.1	600	1.8	0.15
IA55	IA1.055	Mill Building Heater #1S	491,380	4,283,447	1,852	POINT	1.3E-4	1.3E-4	1.3E-4	10.1	600	1.8	0.15
IA56	IA1.056	Mill Building Heater #1NE	491,423	4,283,447	1,852	POINT	1.3E-4	1.3E-4	1.3E-4	10.1	600	1.8	0.15
IA57	IA1.057	Administration Building Heater	491,184	4,284,386	1,831	POINT	6.4E-4	6.4E-4	6.4E-4	5.8	600	1.3	0.40
IA58	IA1.058	GH Process Building Heater #1	493,939	4,290,162	1,848	POINT	0.0019	0.0019	0.0019	13.1	600	1.3	0.69
IA59	IA1.059	GH Process Building Heater #2	493,925	4,290,170	1,848	POINT	0.0019	0.0019	0.0019	13.1	600	3.8	0.41
IA60	IA1.060	Refinery - Primary Roll Crusher, PM10 PTE < 4,000 lb/yr	490,902	4,283,486	1,829	POINT	9.1E-5	1.4E-5	1.4E-5	19.2	-	6.5	0.30
IA61	IA1.061	Refinery - Secondary Roll Crusher	490,902	4,283,486	1,829	POINT	9.1E-5	1.4E-5	1.4E-5	19.2	-	6.5	0.30
IA62	IA1.062	Refinery - Cone Crusher	490,896	4,283,480	1,829	POINT	6.0E-5	9.2E-6	9.2E-6	19.2	-	25.9	0.15

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Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) oy (m)	vel (m/s) oz (m)	dia (m)
IA63_70	IA1.063-70	Assay Laboratory - Fire Assay Room- 8 Denver Clay Furnaces	491,189	4,284,101	1,837	POINT	0.030	0.030	0.030	4.6	325	6.0	0.40
IA71_75	IA1.071-75	Assay Laboratory - Cupel Room Ovens - 5 Cupel Furnaces	491,189	4,284,101	1,837	POINT	0.0026	0.0026	0.0026	4.6	325	6.0	0.40
IA76_77	IA1.076-77	Assay Laboratory - Mixing Room Steel Drum Mixers (2)	491,189	4,284,101	1,837	POINT	3.4E-4	5.2E-5	5.2E-5	4.6	325	6.0	0.40
IA78_79	IA1.078-79	Assay Laboratory - High Grade Room - 2 DFC Furnaces	491,182	4,284,101	1,837	POINT	0.0018	0.0018	0.0018	4.6	292	11.2	0.69
IA80_81	IA1.080-81	Assay Laboratory - High Grade Roam - 2 Cupel Furnaces	491,184	4,284,101	1,837	POINT	8.8E-4	8.8E-4	8.8E-4	4.6	292	11.2	0.69
IA82A	IA1.082A	Prill Silo #1 loading	490,855	4,284,157	1,824	POINT	0.11	0.017	7.0E-4	15.9	-	1.0E-3	0.10
IA82B	IA1.082B	Prill Silo #1 unloading	490,855	4,284,157	1,824	VOLUME	0.0046	7.0E-4	7.0E-4	1.1	0.18	0.21	
IA83A	IA1.083A	Prill Silo #2 loading	490,848	4,284,151	1,824	POINT	0.11	0.017	7.0E-4	15.9	-	1.0E-3	0.10
IA83B	IA1.083B	Prill Silo #2 unloading	490,848	4,284,151	1,824	VOLUME	0.0046	7.0E-4	7.0E-4	1.1	0.18	0.21	
IA84A	IA1.084A	Prill Silo #3 loading	495,222	4,291,021	1,906	POINT	0.11	0.017	7.0E-4	15.9	-	1.0E-3	0.10
IA84B	IA1.084B	Prill Silo #3 unloading	495,222	4,291,021	1,906	VOLUME	0.0046	7.0E-4	7.0E-4	1.1	0.18	0.21	
IA85	IA1.085	RM Refinery - High Grade Room - 1 Rock Crusher	490,907	4,283,496	1,829	POINT	1.4E-4	2.2E-5	2.2E-5	19.2	-	58.2	0.10
IA86_87	IA1.086-87	Assay Laboratory - 2 Rock Crushers (Rocklabs Boyd MK-III)	491,177	4,284,120	1,837	POINT	3.0E-4	4.6E-5	4.6E-5	4.6	-	58.2	0.10
IA88_89	IA1.088-89	Assay Laboratory - 2 Rock Crushers (TM Engineering)	491,177	4,284,120	1,837	POINT	2.9E-4	4.4E-5	4.4E-5	4.6	-	58.2	0.10
IA90_94	IA1.090-94	Assay Laboratory - 5 Rock Pulverizers Operated Inside Lab. Fume Hood	491,177	4,284,120	1,837	POINT	3.8E-5	5.7E-6	5.7E-6	4.6	-	58.2	0.10
IA95	IA1.095	Assay Laboratory - 1 Rocklab Ring Mill	491,177	4,284,120	1,837	POINT	7.6E-6	1.1E-6	1.1E-6	4.6	-	58.2	0.10
IA96_98	IA1.096-98	Assay Laboratory 3 Jaw Crushers (BICO Badger)	491,177	4,284,120	1,837	POINT	5.9E-4	8.9E-5	8.9E-5	4.6	-	58.2	0.10

Round Mountain Mine
Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS							
Model ID	Source ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	$PM_{2.5}$-AN gps	ht (m) ht (m)	temp (K) oy (m)	vel (m/s) oz (m)	dia (m)
IA99	IA1.099	Metallurgy Lab Jaw Crusher (1,200 lb/hr)	490,945	4,283,414	1,828	POINT	1.8E-4	2.7E-5	2.7E-5	7.0	-	58.2	0.10
IA100	IA1.100	Metallurgy Lab Jaw Crusher (600 lb/hr)	490,945	4,283,414	1,828	POINT	9.1E-5	1.4E-5	1.4E-5	7.0	-	58.2	0.10
IA101	IA1.101	Metallurgy Lab Jaw Crusher (120 lb/hr)	490,945	4,283,414	1,828	POINT	1.8E-5	2.7E-6	2.7E-6	7.0	-	58.2	0.10
IA102	IA1.102	Geology Core Shed Crusher	491,271	4,284,571	1,832	POINT	7.6E-5	1.1E-5	1.1E-5	4.6	-	58.2	0.10
IA103	IA1.103	Lime Silo RM3 discharge to Slaker	491,434	4,283,408	1,852	VOLUME	0.0071	0.0011	0.0011	6.7	0.21	3.7	
IA104	IA1.104	Assay Laboratory Heater #1	491,177	4,284,120	1,837	POINT	0.0034	0.0034	0.0034	4.6	600	47.6	0.15
IA105	IA1.105	Assay Laboratory Heater #2	491,177	4,284,120	1,837	POINT	6.5E-4	6.5E-4	6.5E-4	4.6	600	9.2	0.15
IA106	IA1.106	Assay Laboratory Heater #3	491,177	4,284,120	1,837	POINT	8.8E-4	8.8E-4	8.8E-4	4.6	600	12.4	0.15
IA107	IA1.107	Assay Laboratory Heater #4	491,177	4,284,120	1,837	POINT	0.0011	0.0011	0.0011	4.6	600	15.9	0.15
IA1131	IA1.131	CBP MUA Unit	491,367	4,285,067	1,870	VOLUME	0.0035	0.0035	0.0035	9.1	7	8.5	
IA1132	IA1.132	CBP Building Heaters (8)	491,367	4,285,067	1,870	VOLUME	0.0002	0.0002	0.0002	9.1	7	8.5	