Edit: Application Tracking

Air Case ID: 12880 Permit Id: 4729

FIN No.: A0385

Company Name: GOLDCORP DEE LLC

HA Basin No: N/A

Increment Tracked ☐

Permit No: AP10415092 * Select a Permit No

Date App. Received: 03/05/2026 *

Permit Writer: Not Assigned (NA) *

Case Type: Class 1 New *

Default ODS Date: 05/04/2026 *

Actual ODS Date:

Date App. to be Closed: 05/04/2027 *

Stop Days: **Actual Date App. to be Closed:** 5/4/2027

App. Incomplete? ☐

Date App. Closed:

Fee Paid ($): 35000 *

Case Description:

Comments:

Flag (For Class 4) : None

Update Cancel

i-80 GOLD CORP
www.i80gold.com

1.866.525.6450
1.775.525.6450

5190 Neil Road, Suite 460
Reno, Nevada 89502

March 5, 2025

RECEIVED
MAR 05 2026
BAPC/BAQP

VIA EMAIL: tsoleta@ndep.nv.gov
and
Hand Delivered

Tanya Soleta, Supervisor, Minor Source Permitting
Nevada Department of Environmental Protection
Bureau of Air Pollution Control
901 S. Stewart St, Ste. 4001
Carson City, NV 89701

RE: Goldcorp DEE LLC – Lone Tree Mine (FIN A0385)
Application for New Class I Air Quality Operating Permit
Application to Revise Class II Air Quality Operating Permit No. AP1041-3575.02
Application to Revise Mercury Operating Permit to Construct No. AP1041-2251

Dear Ms. Soleta,

Goldcorp DEE LLC (Goldcorp) is pleased to submit the enclosed applications for a new Class I Air Quality Operating Permit (AQOP) and revisions to Class II AQOP No. AP1041-3575.02 and Mercury Operating Permit to Construct (MOPTC) No. AP1041-2251 for the Lone Tree Mine to facilitate the restart of the autoclave and the construction and operation of a gold refinery. The Lone Tree Mine has existing emission units permitted under Class II AQOP No. AP1041-3575.02 and Tier-3 non-permit de minimis equipment listed under MOPTC No. AP1041-2251.

The Lone Tree Mine will be a minor source (i.e., facility-wide emissions less than 100 tons per year for all criteria pollutants), however, a Class I AQOP will be required to include the emission units subject to 40 CFR Part 63, Subpart EEEEEEE (Subpart 7E), specifically the autoclave and refinery sources. In addition, these sources must be permitted under an MOPTC. Accordingly, applications for a new Class I AQOP and a revision to MOPTC to include the autoclave and refinery sources are enclosed.

For all other emission units supporting operation of the autoclave and gold refinery, Goldcorp is proposing to revise the existing Class II AQOP to add a wet milling circuit, boiler, tailings dry stack circuit, emergency generators, several categorically insignificant sources, as well as make several changes to existing sources. This submittal also includes an Application for Determination of Insignificant Activities for emission units meeting the criteria of NAC 445B.288.4. These units have been included in the count of affected sources for the Class II AQOP action.

A detailed description of the Lone Tree Mine operations is provided in the Narrative Description section of each application. In addition, an environmental evaluation was completed, and the impact analysis report is included with each AQOP application.

Electronic payments to cover the application filing fees were made on March 4th, 2026, for the following:

- Application for a new Class I AQOP (7 emission units): $35,000 (Confirmation No.772661972026690340307 5.)
- Application to revise Class II AQOP (44 emission units): $7,500 (Confirmation No.772662381263615500307 0)
- Application to revise MOPTC to include new thermal mercury units: $5,000 (Confirmation No.772661637868685410371 3)

Please contact Mark Miller at (775) 397-3430 / mmiller@i80gold.com or Elizabeth Huelson with Air Sciences at (720) 389-4204 / elizabeth@airsci.com if you have any questions or require any additional information.

Sincerely,

Mark D. Miller
Vice President, Environmental & Permitting

Attachment: E-Payment Confirmation Receipts for new Class I AQOP Application, revised Class II AQOP, and revised MOPTC

Ec: Elizabeth Huelson, Principal Air Quality Scientist, Air Sciences
Mirinda Jones, Environmental Manager, i-80 Gold
Cori Thomas, Environmental Coordinator, i-80 Gold

ePayment

User Id: Goldcorp DEE LLC **Company Name:** Goldcorp Dee Llc

Payment Type: Application Fee **Payment Amount:** $35,000.00

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:	**Goldcorp Dee Llc**
Company Address:	**5190 Neil Road** **Reno NV 89502**
Contact First Name:	**Accounts**
Contact Last Name:	**Payable**
Telephone:	**(775) 245-6466**
Payment Type:	**Application Fee**
Bureau:	**Air Pollution Control**
Application Type:	**Class I Major Sources, New Operating Permit (10 or Less Emission Units and Insignificant Activities)**
Fixed Fee Amount:	**$35,000.00**
Notes:	**New Class I AQOP application for 7 units: $35,000 P0#PU03699**
Confirmation E-mail:	**ap@i80gold.com**
Payment Amount:	**$35,000.00**
Today's Date:	**3/4/2026**
Confirmation Number:	**772661972026690340307 5**
Settlement Date:	**3/4/2026**
Total Amount:	**$35,000.00**

Main Menu

ePayment

User Id: Goldcorp DEE LLC **Company Name:** Goldcorp Dee Llc

Payment Type: Application Fee **Payment Amount:** $7,500.00

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:	**Goldcorp Dee Llc**
Company Address:	**5190 Neil Road** **Reno NV 89502**
Contact First Name:	**Accounts**
Contact Last Name:	**Payable**
Telephone:	**(775) 245-6466**
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:	**Revised Class II AQOP (AP1041-3575.02) application for 44 units PO#PU03700**
Confirmation E-mail:	**ap@i80gold.com**
Payment Amount:	**$7,500.00**
Today's Date:	**3/4/2026**
Confirmation Number:	**772662381263615500307O**
Settlement Date:	**3/4/2026**
Total Amount:	**$7,500.00**

Main Menu

Payment Instructions

ePayment

User Id: Goldcorp DEE LLC **Company Name:** Goldcorp Dee Llc

Payment Type: Application Fee **Payment Amount:** $5,000.00

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:	**Goldcorp Dee Llc**
Company Address:	**5190 Neil Road** **Reno NV 89502**
Contact First Name:	**Accounts**
Contact Last Name:	**Payable**
Telephone:	**(775) 245-6466**
Payment Type:	**Application Fee**
Bureau:	**Air Pollution Control**
Application Type:	**Mercury Permit To Construct, Revision**
Fixed Fee Amount:	**$5,000.00**
Notes:	**•New MOPTC application: $5,000 P0#PU03701**
Confirmation E-mail:	**ap@i80gold.com**
Payment Amount:	**$5,000.00**
Today's Date:	**3/4/2026**
Confirmation Number:	**772661637868685410371 3**
Settlement Date:	**3/4/2026**
Total Amount:	**$5,000.00**

Main Menu

AIR SCIENCES INC.

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RECEIVED
MAR 05 2026
BAPC/BAQP

Class I Air Quality Operating Permit Application

PREPARED FOR:
GOLDCORP DEE LLC

PROJECT NO. 430-1-1
FEBRUARY 2026

Class I

Air Quality Operating Permit (AQOP), Operating Permit to Construct (OPTC), and Prevention of Significant Deterioration (PSD)
Application Form

Facility Name: Goldcorp DEE LLC - Lone Tree Mine
Existing Facility ID: A0385
Existing Class I AQOP/OPTC: AP N/A
Type of Facility: Gold Mine
Number of Units (including IA's) in Facility: 76
Number of Units (including IA's) Affected in Action: 7

Application Type:

- ☒ New AQOP
- ☐ Minor Revision of Existing AQOP
- ☐ Significant Revision of Existing AQOP
- ☐ Renewal of Existing AQOP
- ☐ New OPTC
- ☐ Revision of OPTC
- ☐ Rollover OPTC to a New AQOP
- ☐ Rollover OPTC to Existing AQOP
- ☐ Administrative Revision of Existing AQOP
- ☐ New PSD AQOP
- ☐ Major PSD Revision of AQOP
- ☐ New PSD OPTC
- ☐ Major PSD Revision of OPTC

NDEP

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

September 2024
(Ver. 5)

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Appendices

Appendix 1: Narrative, Maps, and Process Flow Diagrams
Appendix 2: Environmental Evaluation

IMPORTANT INFORMATION

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

- Please see the Guidance Document located at https://ndep.nv.gov/air/permitting/download-permit-forms for additional instructions on how to complete the application.
- The application is available from the Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) in a Microsoft Word file, or on the internet at https://ndep.nv.gov/air/permitting/download-permit-forms. 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 a new, renewal, and revision of Class I sources, including AQOP, OPTC, rollover OPTC, and PSD actions.
- An application for a Class I AQOP, OPTC, and PSD must be signed by the Responsible Official, as defined in NAC 445B.156. The certification document (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:
  - 45 days for a new or revision of Class I OPTC. (NAC 445B.3364(1))
  - 30 days for sources subject to permitting requirements set forth in 40 CFR 52.21 applying for a new or revision of Class I PSD OPTC. (NAC 445B.3364(2))
  - 60 days for a new, significant revision, or renewal of Class I AQOP. (NAC 445B.3395(1), NAC 445B.3443(3))
  - 10 working days for a minor revision of Class I AQOP. (NAC 445B.3395(5))
  - 30 days for sources subject to permitting requirements set forth in 40 CFR 52.21 applying for a new of Class I PSD. (NAC 445B.3395(2))
  - 45 days for an administrative revision of Class I OPTC. (NAC 445B.3441(2) and NAC 445B.3364(1))

IMPORTANT INFORMATION (continued)

- For the renewal of a Class I Operating Permit, a **complete** application and corresponding processing fee must be submitted in accordance with NAC 445B.3443(2) at least 240 days prior to the expiration date of the current permit but not earlier than 18 months. The BAPC suggests that the application be submitted well in advance of the timeline outlined in NAC 445B.3443 to ensure the application is deemed complete. The BAPC has 60 days to deem the application complete or incomplete. As stated above, incomplete applications will be returned within 60 days of the receipt of the application. Therefore, the BAPC recommends the application be submitted at least 300 days prior to expiration of the current permit.
- For stationary sources subject to the provisions regarding new source review set forth in United States Code (U.S.C.) Title 42 7501 through 7515, inclusive (nonattainment areas), include all information required by U.S.C. Title 42 7503 pursuant to NAC 445B.3363(2)(b)(3).
- For a proposed new major source or a proposed major modification to an existing stationary source that is subject to the provisions of 40 CFR 52.21, include all information required by 40 CFR 52.21 pursuant to NAC 445B.3368(3)(a).
- For a proposed new major source, or a proposed significant revision to an existing stationary source which is not subject to the provisions of 40 CFR 52.21, include all information as required by NAC 445B.308 through 445B.313, inclusive, pursuant to NAC 445B.3368(3)(b).
- For a proposed new major source or a proposed significant revision to an existing stationary source which is subject to the requirements of U.S.C. Title 42 7412 regarding hazardous air pollutants, include all information required by NAC 445B.308 through 445B.313, inclusive, pursuant to NAC 445B.3368(3)(c).

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 Goldcorp DEE LLC – Lone Tree Mine consists of open pit mining, heap leach and autoclave gold recovery and refining facilities, support facilities, and exploration. The primary operation at the facility can be classified by SIC code 1041 and NAICS code 212220.

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

   Name: **Goldcorp DEE LLC – Lone Tree Mine**
   Address: **5190 Neil Rd, Suite 460**
   City: **Reno**
   State: **Nevada** Zip Code: **89502**

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

   Name: **Goldcorp DEE LLC**
   Address: **5190 Neil Rd, Suite 460**
   City: **Reno**
   State: **Nevada** Zip Code: **89502**

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

   Name: **Goldcorp DEE LLC – Lone Tree Mine**
   Address: **291000 Lone Tree Mine Road**
   City: **Valmy**
   State: **Nevada** Zip Code: **89438**

5. **If records 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 – Same as #4**
   Address:
   City:
   State: Zip Code:

GENERAL COMPANY INFORMATION FORM (continued)

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

Name:	**Mark Miller**
Title:	**VP, Environmental & Permitting**
Address:	**5190 Neil Rd, Suite 460**
City:	**Reno**
State:	**Nevada** Zip Code: **89502**
Phone Number:	**(775) 397-3430**
Fax Number:	**N/A**
E-mail Address:	**mmiller@i80gold.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:	**Shawn Lawson**
Title:	**Lone Tree Site Manager**
Address:	**291000 Lone Tree Mine Road**
City:	**Valmy**
State:	**Nevada** Zip Code: **89438**
Phone Number:	**(775) 304-0286**
Fax Number:	**N/A**
E-mail Address:	**slawson@i80gold.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: **HA64, HA65**

HA Basin Name: **Clovers Area, Pumpernickel Valley**

Township(s):	**34**	N;	Range(s):	**42**	E;	Section(s): **1-3, 10-17. 21-24, 28-29, and 31-32**
	34			**43**		**18**
	33			**41**		**1**
	33			**42**		**5 and 6**

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

4,521,992 m North; **482,787** m East;

Nearest City: **Valmy, Nevada**

County: **Humboldt**

Driving Directions from nearest city to the Facility:

Heading east on Interstate 80, take Exit 212 and turn right. Turn south onto the access road and travel approximately one mile to the front gate.

GENERAL COMPANY INFORMATION FORM (continued)

9. Emission Cap Requested [NAC 445B.070, NAC 445B.296(2), NAC 445B.296(3)]:

☐ 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 all 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 (TDB, unknown, etc.) must be entered in the appropriate blank.

11. Check one that applies:

☐ Major Stationary Source [40 CFR 52.21]

☒ Minor Source [40 CFR 71.2]

☐ New Source Review (NSR) Synthetic Minor Source [40 CFR 49.167]

12. Is the Facility subject to 40 CFR 51.307 and 52.21(p) (i.e., located within 100 km of a Class I Federal Area within Nevada and any adjacent states, for example Jarbidge Wilderness Area) protected by the Regional Haze Program (40 CFR Part 81)?

☐ Yes ☒ No

13. Check any of the following that apply to this application:

☐ Involve significant changes to the existing requirements for monitoring, reporting, or recordkeeping.

☐ Require or change a determination of an emission limitation or other standard on a case-by-case basis.

☐ Require or change a visibility or increment analysis.

☐ Require or change a determination of ambient impact for any temporary source.

☐ Establish or change a condition of the operating permit for which there is no a federally enforceable emissions cap and/or an alternative emission limitation pursuant to U.S.C. Title 42 7412(i)(5).

☐ Result in an increase in allowable emissions that exceeds any of the following specified thresholds: Carbon monoxide, 100 tons per year; Nitrogen oxides, 40 tons per year; Sulfur dioxide (SO_2), 40 tons per year; Particulate Matter less than or equal to 10 microns in diameter (PM_{10}), 15 tons per year; Ozone (O_3), 40 tons per year of volatile organic compounds (VOC); Sulfuric acid mist, 7 tons per year; and Hydrogen sulfide (H_2S), 10 tons per year.

☐ Modification pursuant to any provision of U.S.C. Title 42 7401 to 7515, inclusive, or a major modification at an existing major stationary source.

If any of the boxes were checked above, a minor revision may not be made to the Class I Operating Permit pursuant to NAC 445B.3425.

14. Will the Facility be constructed in more than one phase [NAC 445B.3395(17)]?

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

GENERAL COMPANY INFORMATION FORM (continued)

15. Will the facility violate any "Applicable requirement" pursuant to NAC 445B.019?

☐ Yes ☒ No

16. Verify facility's compliance status for the following regulations and describe the reason for exemption if applicable:

FEDERALLY ENFORCEABLE REQUIREMENTS			
NAC 445B.225	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.315(3)(h)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.315(3)(i)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.315(3)(k)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
40 CFR 52.21(r)(4)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.252	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22067	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22093	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22037	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.227	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
40 CFR Parts 60.1-60.19, 61.01-61.19, 61.140-61.157, 63.1-63.15, and 70	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
40 CFR Part 82	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.230	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22017	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*

STATE REQUIREMENTS			
NRS 445B.470	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22013	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.326(1)	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 445B.22087	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*
NAC 459.952-459.95528	☒ Compliant	☐ Not Compliant	☐ Exempt, *Reason for Exemption*

17. 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 I OPERATING PERMIT

System Number and Name: **17: Autoclave Circuit**

Emission Unit Description: **Autoclave**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.030**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-03**
	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	**4,518,734**
	UTM Easting (NAD 83, Zone 11)	m	**480,361**
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	**95**
	Stack Inside Diameter	Feet	**1.6**
	Stack Temperature	°F	**220**
	Stack Exit Velocity	feet/second	**90.7**
	Actual Gas Volume Flow Rate	Acfm	**11,000**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**8,300**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Autoclave**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☒ Yes ☐No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).
   40 CFR Part 63, Subpart EEEEEEE (as part of the new ore pretreatment processes affected source)

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒ Yes ☐No If yes, identify regulation and applicability.
   NAC 445B.22033, NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   Work practices will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for a process unit controlled by a carbon adsorber. Additionally, the autoclave is equipped with a release vent located after the quench vessel and prior to the venturi scrubber. Use of the release vent shall be limited to 100 hours per year.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   Compliance testing will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for new ore pretreatment processes.

5. 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 densitometer and flowmeter.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **21: Carbon Regeneration Kiln**

Emission Unit Description: **Electric Carbon Regeneration Kiln**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.032**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-05**
	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	**4,518,765**
	UTM Easting (NAD 83, Zone 11)	m	**480,375**
Operating Parameters	Material Type Processed		**Carbon**
	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	**55**
	Stack Inside Diameter	Feet	**0.33**
	Stack Temperature	°F	**200**
	Stack Exit Velocity	feet/second	**59.2**
	Actual Gas Volume Flow Rate	Acfm	**310**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**210**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Electric Carbon Regeneration Kiln**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☒ Yes ☐No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).
   40 CFR Part 63, Subpart EEEEEEE (as part of the new carbon processes with mercury retorts affected source)

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒ Yes ☐No If yes, identify regulation and applicability.
   NAC 445B.22033, NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   Work practices will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for a process unit controlled by a carbon adsorber.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   Compliance testing will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for new carbon processes with mercury retorts.

5. 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 by the screw feeder.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **22: Strip Circuit**

Emission Unit Description: **Pregnant Solution Tank**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.033**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-01**
	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	**4,518,762**
	UTM Easting (NAD 83, Zone 11)	m	**480,375**
Operating Parameters	Material Type Processed		**Solution**
	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	**55**
	Stack Inside Diameter	Feet	**0.5**
	Stack Temperature	°F	**200**
	Stack Exit Velocity	feet/second	**48.4**
	Actual Gas Volume Flow Rate	Acfm	**570**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**400**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Pregnant Solution Tank**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☒ Yes ☐No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).

   40 CFR Part 63, Subpart EEEEEEE (as part of the new carbon processes with mercury retorts affected source)

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒Yes ☐No If yes, identify regulation and applicability.

   NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).

   Work practices will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for a process unit controlled by a carbon adsorber.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).

   Compliance testing will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for new carbon processes with mercury retorts.

5. 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 flowmeter.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **22: Strip Circuit**

Emission Unit Description: **Barren Solution Tank**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.034**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-01**
	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	**4,518,762**
	UTM Easting (NAD 83, Zone 11)	m	**480,375**
Operating Parameters	Material Type Processed		**Solution**
	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	**55**
	Stack Inside Diameter	Feet	**0.5**
	Stack Temperature	°F	**200**
	Stack Exit Velocity	feet/second	**48.4**
	Actual Gas Volume Flow Rate	Acfm	**570**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**400**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Barren Solution Tank**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☐ Yes ☒No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).
   N/A

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒Yes ☐No If yes, identify regulation and applicability.
   NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   No work practices are being proposed for this unit.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   No compliance or performance testing is being proposed for this unit.

5. 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 with a flow meter.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **23: Strip Circuit**

Emission Unit Description: **Electrowinning Circuit (3 Cells)**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.035**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-07**
	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	**4,518,744**
	UTM Easting (NAD 83, Zone 11)	m	**480,245**
Operating Parameters	Material Type Processed		**Solution**
	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	**38**
	Stack Inside Diameter	Feet	**1.5**
	Stack Temperature	°F	**200**
	Stack Exit Velocity	feet/second	**79.0**
	Actual Gas Volume Flow Rate	Acfm	**7,920**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**6,700**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Electrowinning Circuit (3 Cells)**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☒ Yes ☐No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).
   40 CFR Part 63, Subpart EEEEEEE (as part of the new carbon processes with mercury retorts affected source)

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒Yes ☐No If yes, identify regulation and applicability.
   NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   Work practices will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for a process unit controlled by a carbon adsorber.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   Compliance testing will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for new carbon processes with mercury retorts.

5. 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 flowmeter.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **24: Refinery Retort**

Emission Unit Description: **Retort**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.036**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-08**
	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	**4,518,747**
	UTM Easting (NAD 83, Zone 11)	m	**480,242**
Operating Parameters	Material Type Processed		**Precious Metal Bearing Material**
	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	**38**
	Stack Inside Diameter	Feet	**0.33**
	Stack Temperature	°F	**103**
	Stack Exit Velocity	feet/second	**17.2**
	Actual Gas Volume Flow Rate	Acfm	**90**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**75**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Retort**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☒ Yes ☐No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).
   40 CFR Part 63, Subpart EEEEEEE (as part of the new carbon processes with mercury retorts affected source)

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒Yes ☐No If yes, identify regulation and applicability.
   NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).
   Work practices will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for a process unit controlled by a carbon adsorber.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).
   Compliance testing will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for new carbon processes with mercury retorts.

5. 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 by a weigh scale per 40 CFR Part 63, Subpart EEEEEEE for facilities with mercury retorts.

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT

System Number and Name: **25: Refinery Melt Furnace**

Emission Unit Description: **Melt Furnace**

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

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

Description			Data
Equipment Description	BAPC Emission Unit ID *Applicable for Renewal or Revision*	eg. Unit ID: S2.001, PF1.001	**S2.037**
	Source Classification Code (SCC)	e.g. *3-03-024-04 for Conveyors*	**3-03-013-09**
	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	**4,518,745**
	UTM Easting (NAD 83, Zone 11)	m	**480,243**
Operating Parameters	Material Type Processed		**Precious Metal Bearing Material**
	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	**38**
	Stack Inside Diameter	Feet	**1.0**
	Stack Temperature	°F	**200**
	Stack Exit Velocity	feet/second	**60.3**
	Actual Gas Volume Flow Rate	Acfm	**3,030**
	Dry Gas Volume Flow Rate *If not included in detailed calculations.*	dscfm	**2,300**
	Stack Release Type		☒ vertical ☐ capped ☐ horizontal

INDUSTRIAL PROCESS APPLICATION FORM
CLASS I OPERATING PERMIT (continued)

Emission Unit Description: **Melt Furnace**

1. Subject to a Federal Regulation specific to the emission unit (e.g. 40 CFR Part 60, 61, 63, 64, 76, or other): ☒ Yes ☐No If yes, identify regulation and applicability and include required analysis or plans (e.g. siting analysis or Continuous Assurance Monitoring (CAM) plans).

   40 CRF Part 63, Subpart EEEEEEE (as part of the new carbon processes with mercury retorts affected source)

2. Subject to a State Regulation specific to the emission unit (e.g. NAC 445B.22033, NAC 445B.22017): ☒Yes ☐No If yes, identify regulation and applicability.

   NAC 445B.22033, NAC 445B.22017

3. Identify standards for work practices which affect emissions for all regulated air pollutants (e.g. At all times, including startup, shutdown and malfunction).

   Work practices will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for a process unit controlled by a carbon adsorber.

4. Identify and describe compliance and performance testing with reference to any applicable test methods, monitoring devices, compliance plan, or other activities required to determine compliance with an applicable requirement (e.g. Emissions from this unit will be monitored by CEMS and/or COMS for the specific pollutant(s) (NO_X, CO, etc.)).

   Compliance testing will follow the requirements of 40 CFR Part 63, Subpart EEEEEEE for new carbon processes with mercury retorts.

5. 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 by a weigh scale.

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:	17: Autoclave Circuit							Uncontrolled					
S2.030	Autoclave	24	8,760	180	1,576,800	ton	Venturi Scrubber (VS-001), Carbon Bed (CA-001)	N/A	PM, PM_{10}, $PM_{2.5}$, SO_2, H_2S	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM	5.89	lb/hr	5.89	25.8	(Hatch 2025); PM (including H2SO4 as condensible PM) and H2S: Previously permitted emission rates (AQOP AP1041-0059.02) ratioed to increased throughput; SO2: Twin Creeks Mine emission rate ratioed to Lone Tree throughput
									PM_{10}	5.89	lb/hr	5.89	25.8	
									$PM_{2.5}$	5.89	lb/hr	5.89	25.8	
									SO_2	5.40	lb/hr	5.40	23.7	
									H_2S	4.11	lb/hr	4.11	18.0	
	System No. & Name:	21: Carbon Reactivation Kiln							Uncontrolled					
S2.032	Carbon Reactivation Electric Kiln	24	8,760	0.32	2,803	ton	Carbon Bed (CA-002)	N/A	PM, PM_{10}, $PM_{2.5}$	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM	0.27	lb/hr	0.27	1.18	Historical stack test data from similar mines; (Pan 2013)
									PM_{10}	0.27	lb/hr	0.27	1.18	
									$PM_{2.5}$	0.27	lb/hr	0.27	1.18	
	System No. & Name:	22: Strip Circuit							Uncontrolled					
S2.033	Pregnant Solution Tank	24	8,760	16,200	141,912,000	gal	Carbon Bed (CA-003)	N/A	PM, PM_{10}, $PM_{2.5}$	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM, PM_{10}, $PM_{2.5}$	N/A – negligible potential for PM emissions				
	System No. & Name:	22: Strip Circuit							Uncontrolled					
S2.034	Barren Solution Tank	24	8,760	16,200	141,912,000	gal	Carbon Bed (CA-003)	N/A	PM, PM_{10}, $PM_{2.5}$	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM, PM_{10}, $PM_{2.5}$	N/A – negligible potential for PM emissions				

*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:	23: Strip Circuit							Uncontrolled					
S2.035	Electrowinning Circuit (3 Cells)	24	8,760	16,200	141,912,000	gal	Carbon Bed (CA-004)	N/A	PM, PM_{10}, $PM_{2.5}$	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM, PM_{10}, $PM_{2.5}$	N/A – negligible potential for PM emissions				
	System No. & Name:	24: Refinery Retort							Uncontrolled					
S2.036	Retort	24	8,760	0.26	27	ton	Condenser (CO-001), Carbon Bed (CA-005)	N/A	PM, PM_{10}, $PM_{2.5}$	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM, PM_{10}, $PM_{2.5}$	N/A – negligible potential for PM emissions				
	System No. & Name:	25: Refinery Melt Furnace							Uncontrolled					
S2.037	Melt Furnace	24	8,760	0.26	27	ton	Baghouse (BH-001), Carbon Bed (CA-006)	2,300 dscfm	PM, PM_{10}, $PM_{2.5}$	N/A – 40 CFR Part 64 (CAM) does not apply				
									Controlled					
									PM	0.02	gr/dscf	0.39	1.73	NDEP default grain loading
									PM_{10}	0.02	gr/dscf	0.39	1.73	
									$PM_{2.5}$	0.02	gr/dscf	0.39	1.73	

*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)	**24.60**	**56.29**
Total PM_{10}	**18.66**	**51.13**
Total $PM_{2.5}$	**15.81**	**48.52**
Total Sulfur Dioxide (SO_2)	**8.73**	**33.28**
Total Carbon Monoxide (CO)	**51.80**	**50.41**
Total Oxides of Nitrogen (NO_X)	**139.9**	**84.38**
Total Volatile Organic Compounds (VOC)	**7.32**	**7.61**
Total Lead (Pb)	**N/A**	**N/A**
Total Hydrogen Sulfide (H_2S)	**4.11**	**18.00**
Total Sulfuric Acid Mist (H_2SO_4)	**N/A**	**N/A**
Total Hazardous Air Pollutants (HAPs)	**N/A**	**3.42**
Total Greenhouse Gases (CO_{2e})	**N/A**	**77,057**
Other Regulated Pollutants (Specify)	**N/A**	**N/A**

REVISION TABLE

Please complete the table below if this application is for a Minor/Significant **Revision** of an existing Class I Air Quality Operating Permit. Add more columns if needed for any other applicable regulated pollutants. All Potential To Emit (PTE) values must be in tons per year (TPY) [NAC 445B.3425 and NAC 445B.344]

Description	Pollutants									
	PM	PM_{10}	$PM_{2.5}$	SO_2	NOx	CO	VOC	HAPs	CO_{2e}	Other
Permitted Facility-Wide PTE (TPY)	--	--	--	--	--	--	--	--	--	--
Proposed Facility-Wide PTE (TPY)	--	--	--	--	--	--	--	--	--	--
Change in Facility-Wide PTE (TPY)	--	--	--	--	--	--	--	--	--	--

SURFACE AREA DISTURBANCE FORM

1. Total Acres of the Facility Site: **11,058**
2. Total Acres Disturbed: **3,606**
3. Add Surface Area Disturbance location as Township(s), Range(s) and Section
   T34N R42E Sections 1 – 3, 10 – 17, 21 – 24, 28 – 29, and 31 – 32; T34N R43E Section 18; T33N R41E Section 1; T33N R42E Sections 5 and 6
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: **1x 18,000-gallon water truck, 1x 2,000-gallon water truck**

PLANT BOUNDARY COORDINATES FORM

Corner Number	UTM Easting	UTM Northing
1	482,773	4,522,128
2	482,789	4,522,109
3	482,804	4,522,089
4	482,820	4,522,070
5	482,835	4,522,050
6	482,851	4,522,031
7	482,867	4,522,011
8	482,882	4,521,992
9	482,897	4,521,972
10	482,912	4,521,952
11	482,927	4,521,931
12	482,942	4,521,911
13	482,956	4,521,891
14	482,971	4,521,871
15	482,989	4,521,853
16	483,007	4,521,836
17	483,025	4,521,819
18	483,044	4,521,802
19	483,062	4,521,785
20	483,081	4,521,769
21	483,100	4,521,752
22	483,118	4,521,736
23	483,137	4,521,719
24	483,156	4,521,703
25	483,175	4,521,687
26	483,192	4,521,668
27	483,209	4,521,650
28	483,226	4,521,631
29	483,242	4,521,613
30	483,259	4,521,594
31	483,276	4,521,576
32	483,293	4,521,557
33	483,309	4,521,538
34	483,326	4,521,520
35	483,343	4,521,501
36	483,360	4,521,483
37	483,377	4,521,464
38	483,393	4,521,446
39	483,411	4,521,428
40	483,428	4,521,410

Corner Number	UTM Easting	UTM Northing
41	483,446	4,521,392
42	483,463	4,521,374
43	483,481	4,521,356
44	483,498	4,521,339
45	483,516	4,521,321
46	483,533	4,521,303
47	483,551	4,521,285
48	483,568	4,521,267
49	483,586	4,521,249
50	483,603	4,521,231
51	483,621	4,521,214
52	483,638	4,521,196
53	483,656	4,521,178
54	483,673	4,521,160
55	483,691	4,521,142
56	483,708	4,521,124
57	483,726	4,521,107
58	483,743	4,521,089
59	483,761	4,521,071
60	483,778	4,521,053
61	483,796	4,521,035
62	483,813	4,521,017
63	483,831	4,520,999
64	483,848	4,520,982
65	483,866	4,520,964
66	483,883	4,520,946
67	483,901	4,520,928
68	483,918	4,520,910
69	483,936	4,520,892
70	483,953	4,520,875
71	483,971	4,520,857
72	483,988	4,520,839
73	484,006	4,520,821
74	484,023	4,520,803
75	484,041	4,520,785
76	484,058	4,520,767
77	484,076	4,520,750
78	484,093	4,520,732
79	484,111	4,520,714
80	484,128	4,520,696
81	484,146	4,520,678
82	484,163	4,520,660

Corner Number	UTM Easting	UTM Northing
83	484,181	4,520,643
84	484,189	4,520,621
85	484,189	4,520,596
86	484,188	4,520,571
87	484,188	4,520,546
88	484,188	4,520,521
89	484,187	4,520,496
90	484,187	4,520,471
91	484,187	4,520,446
92	484,186	4,520,421
93	484,186	4,520,396
94	484,185	4,520,371
95	484,185	4,520,346
96	484,185	4,520,321
97	484,184	4,520,296
98	484,184	4,520,271
99	484,183	4,520,246
100	484,183	4,520,221
101	484,183	4,520,196
102	484,182	4,520,171
103	484,182	4,520,146
104	484,181	4,520,121
105	484,181	4,520,096
106	484,181	4,520,071
107	484,180	4,520,046
108	484,180	4,520,021
109	484,180	4,519,996
110	484,179	4,519,971
111	484,179	4,519,946
112	484,178	4,519,921
113	484,178	4,519,896
114	484,178	4,519,871
115	484,177	4,519,846
116	484,190	4,519,834
117	484,215	4,519,834
118	484,240	4,519,835
119	484,265	4,519,835
120	484,290	4,519,835
121	484,315	4,519,836
122	484,340	4,519,836
123	484,365	4,519,836
124	484,390	4,519,836

Corner Number	UTM Easting	UTM Northing
125	484,415	4,519,837
126	484,440	4,519,837
127	484,465	4,519,837
128	484,490	4,519,838
129	484,515	4,519,838
130	484,540	4,519,838
131	484,565	4,519,838
132	484,590	4,519,839
133	484,615	4,519,839
134	484,640	4,519,839
135	484,665	4,519,840
136	484,690	4,519,840
137	484,715	4,519,840
138	484,740	4,519,841
139	484,765	4,519,841
140	484,790	4,519,841
141	484,815	4,519,841
142	484,840	4,519,842
143	484,865	4,519,842
144	484,890	4,519,842
145	484,915	4,519,843
146	484,940	4,519,843
147	484,965	4,519,843
148	484,986	4,519,834
149	485,003	4,519,815
150	485,020	4,519,797
151	485,037	4,519,779
152	485,054	4,519,761
153	485,072	4,519,743
154	485,089	4,519,725
155	485,106	4,519,706
156	485,123	4,519,688
157	485,140	4,519,670
158	485,157	4,519,652
159	485,175	4,519,634
160	485,192	4,519,616
161	485,209	4,519,597
162	485,226	4,519,579
163	485,243	4,519,561
164	485,260	4,519,543
165	485,278	4,519,525
166	485,295	4,519,507

Corner Number	UTM Easting	UTM Northing
167	485,312	4,519,488
168	485,329	4,519,470
169	485,346	4,519,452
170	485,364	4,519,434
171	485,382	4,519,417
172	485,399	4,519,399
173	485,417	4,519,381
174	485,435	4,519,364
175	485,452	4,519,346
176	485,470	4,519,328
177	485,487	4,519,310
178	485,505	4,519,293
179	485,523	4,519,275
180	485,540	4,519,257
181	485,558	4,519,240
182	485,576	4,519,222
183	485,593	4,519,204
184	485,611	4,519,187
185	485,629	4,519,169
186	485,646	4,519,151
187	485,664	4,519,133
188	485,682	4,519,116
189	485,699	4,519,098
190	485,717	4,519,080
191	485,735	4,519,063
192	485,752	4,519,045
193	485,770	4,519,027
194	485,774	4,519,004
195	485,774	4,518,979
196	485,773	4,518,954
197	485,773	4,518,929
198	485,773	4,518,904
199	485,772	4,518,879
200	485,772	4,518,854
201	485,772	4,518,829
202	485,771	4,518,804
203	485,771	4,518,779
204	485,771	4,518,754
205	485,770	4,518,729
206	485,770	4,518,704
207	485,770	4,518,679
208	485,769	4,518,654

Corner Number	UTM Easting	UTM Northing
209	485,769	4,518,629
210	485,769	4,518,604
211	485,769	4,518,579
212	485,768	4,518,554
213	485,768	4,518,529
214	485,768	4,518,504
215	485,767	4,518,479
216	485,767	4,518,454
217	485,767	4,518,429
218	485,766	4,518,404
219	485,766	4,518,379
220	485,766	4,518,354
221	485,765	4,518,329
222	485,765	4,518,304
223	485,765	4,518,279
224	485,764	4,518,254
225	485,761	4,518,232
226	485,736	4,518,232
227	485,711	4,518,232
228	485,686	4,518,231
229	485,661	4,518,231
230	485,636	4,518,231
231	485,611	4,518,231
232	485,586	4,518,231
233	485,561	4,518,230
234	485,536	4,518,230
235	485,511	4,518,230
236	485,486	4,518,230
237	485,461	4,518,230
238	485,436	4,518,229
239	485,411	4,518,229
240	485,386	4,518,229
241	485,361	4,518,229
242	485,336	4,518,229
243	485,311	4,518,228
244	485,286	4,518,228
245	485,261	4,518,228
246	485,236	4,518,228
247	485,211	4,518,228
248	485,186	4,518,227
249	485,161	4,518,227
250	485,136	4,518,227

Corner Number	UTM Easting	UTM Northing
251	485,111	4,518,227
252	485,086	4,518,227
253	485,061	4,518,226
254	485,036	4,518,226
255	485,011	4,518,226
256	484,986	4,518,226
257	484,961	4,518,226
258	484,936	4,518,225
259	484,911	4,518,225
260	484,886	4,518,225
261	484,861	4,518,225
262	484,836	4,518,225
263	484,811	4,518,224
264	484,786	4,518,224
265	484,761	4,518,224
266	484,736	4,518,224
267	484,711	4,518,224
268	484,686	4,518,223
269	484,661	4,518,223
270	484,636	4,518,223
271	484,611	4,518,223
272	484,586	4,518,223
273	484,561	4,518,222
274	484,536	4,518,222
275	484,511	4,518,222
276	484,486	4,518,222
277	484,461	4,518,222
278	484,436	4,518,221
279	484,411	4,518,221
280	484,386	4,518,221
281	484,361	4,518,221
282	484,336	4,518,221
283	484,311	4,518,220
284	484,286	4,518,220
285	484,261	4,518,220
286	484,236	4,518,220
287	484,211	4,518,220
288	484,186	4,518,219
289	484,179	4,518,202
290	484,179	4,518,177
291	484,179	4,518,152
292	484,179	4,518,127

Corner Number	UTM Easting	UTM Northing
293	484,179	4,518,102
294	484,179	4,518,077
295	484,179	4,518,052
296	484,180	4,518,027
297	484,180	4,518,002
298	484,180	4,517,977
299	484,180	4,517,952
300	484,180	4,517,927
301	484,180	4,517,902
302	484,180	4,517,877
303	484,180	4,517,852
304	484,180	4,517,827
305	484,180	4,517,802
306	484,181	4,517,777
307	484,181	4,517,752
308	484,181	4,517,727
309	484,181	4,517,702
310	484,181	4,517,677
311	484,181	4,517,652
312	484,181	4,517,627
313	484,181	4,517,602
314	484,181	4,517,577
315	484,181	4,517,552
316	484,182	4,517,527
317	484,182	4,517,502
318	484,182	4,517,477
319	484,182	4,517,452
320	484,182	4,517,427
321	484,182	4,517,402
322	484,182	4,517,377
323	484,182	4,517,352
324	484,182	4,517,327
325	484,182	4,517,302
326	484,183	4,517,277
327	484,183	4,517,252
328	484,183	4,517,227
329	484,183	4,517,202
330	484,183	4,517,177
331	484,183	4,517,152
332	484,183	4,517,127
333	484,183	4,517,102
334	484,183	4,517,077

Corner Number	UTM Easting	UTM Northing
335	484,183	4,517,052
336	484,184	4,517,027
337	484,184	4,517,002
338	484,184	4,516,977
339	484,184	4,516,952
340	484,184	4,516,927
341	484,184	4,516,902
342	484,184	4,516,877
343	484,184	4,516,852
344	484,184	4,516,827
345	484,184	4,516,802
346	484,185	4,516,777
347	484,185	4,516,752
348	484,185	4,516,727
349	484,185	4,516,702
350	484,185	4,516,677
351	484,185	4,516,652
352	484,185	4,516,627
353	484,176	4,516,611
354	484,151	4,516,610
355	484,126	4,516,610
356	484,101	4,516,610
357	484,076	4,516,609
358	484,051	4,516,609
359	484,026	4,516,609
360	484,001	4,516,609
361	483,976	4,516,608
362	483,951	4,516,608
363	483,926	4,516,608
364	483,901	4,516,607
365	483,876	4,516,607
366	483,851	4,516,607
367	483,826	4,516,607
368	483,801	4,516,606
369	483,776	4,516,606
370	483,751	4,516,606
371	483,726	4,516,605
372	483,701	4,516,605
373	483,676	4,516,605
374	483,651	4,516,604
375	483,626	4,516,604
376	483,601	4,516,604

Corner Number	UTM Easting	UTM Northing
377	483,576	4,516,604
378	483,551	4,516,603
379	483,526	4,516,603
380	483,501	4,516,603
381	483,476	4,516,602
382	483,451	4,516,602
383	483,426	4,516,602
384	483,401	4,516,602
385	483,376	4,516,601
386	483,351	4,516,601
387	483,326	4,516,601
388	483,301	4,516,600
389	483,276	4,516,600
390	483,251	4,516,600
391	483,226	4,516,600
392	483,201	4,516,599
393	483,176	4,516,599
394	483,151	4,516,599
395	483,126	4,516,598
396	483,101	4,516,598
397	483,076	4,516,598
398	483,051	4,516,597
399	483,026	4,516,597
400	483,001	4,516,597
401	482,976	4,516,597
402	482,951	4,516,596
403	482,926	4,516,596
404	482,901	4,516,596
405	482,876	4,516,595
406	482,851	4,516,595
407	482,826	4,516,595
408	482,801	4,516,595
409	482,776	4,516,594
410	482,751	4,516,594
411	482,726	4,516,594
412	482,701	4,516,593
413	482,676	4,516,593
414	482,651	4,516,593
415	482,626	4,516,592
416	482,601	4,516,592
417	482,576	4,516,592
418	482,551	4,516,593

Corner Number	UTM Easting	UTM Northing
419	482,526	4,516,593
420	482,501	4,516,593
421	482,476	4,516,593
422	482,451	4,516,593
423	482,426	4,516,593
424	482,401	4,516,593
425	482,376	4,516,593
426	482,351	4,516,593
427	482,326	4,516,594
428	482,301	4,516,594
429	482,276	4,516,594
430	482,251	4,516,594
431	482,226	4,516,594
432	482,201	4,516,594
433	482,176	4,516,594
434	482,151	4,516,594
435	482,126	4,516,594
436	482,101	4,516,595
437	482,076	4,516,595
438	482,051	4,516,595
439	482,026	4,516,595
440	482,001	4,516,595
441	481,976	4,516,595
442	481,951	4,516,595
443	481,926	4,516,595
444	481,901	4,516,595
445	481,876	4,516,596
446	481,851	4,516,596
447	481,826	4,516,596
448	481,801	4,516,596
449	481,776	4,516,596
450	481,751	4,516,596
451	481,726	4,516,596
452	481,701	4,516,596
453	481,676	4,516,596
454	481,651	4,516,596
455	481,626	4,516,597
456	481,601	4,516,597
457	481,576	4,516,597
458	481,551	4,516,597
459	481,526	4,516,597
460	481,501	4,516,597

Corner Number	UTM Easting	UTM Northing
461	481,476	4,516,597
462	481,451	4,516,597
463	481,426	4,516,597
464	481,401	4,516,598
465	481,376	4,516,598
466	481,351	4,516,598
467	481,326	4,516,598
468	481,301	4,516,598
469	481,276	4,516,598
470	481,251	4,516,598
471	481,226	4,516,598
472	481,201	4,516,598
473	481,176	4,516,599
474	481,151	4,516,599
475	481,126	4,516,599
476	481,101	4,516,599
477	481,076	4,516,599
478	481,051	4,516,599
479	481,026	4,516,599
480	481,001	4,516,599
481	480,976	4,516,599
482	480,951	4,516,599
483	480,926	4,516,599
484	480,901	4,516,599
485	480,876	4,516,599
486	480,851	4,516,599
487	480,826	4,516,599
488	480,801	4,516,599
489	480,776	4,516,599
490	480,751	4,516,599
491	480,726	4,516,599
492	480,701	4,516,599
493	480,676	4,516,599
494	480,651	4,516,599
495	480,626	4,516,599
496	480,601	4,516,599
497	480,576	4,516,599
498	480,551	4,516,599
499	480,526	4,516,599
500	480,501	4,516,598
501	480,476	4,516,598
502	480,451	4,516,598

Corner Number	UTM Easting	UTM Northing
503	480,426	4,516,598
504	480,401	4,516,598
505	480,376	4,516,598
506	480,351	4,516,598
507	480,326	4,516,598
508	480,301	4,516,598
509	480,276	4,516,598
510	480,251	4,516,598
511	480,226	4,516,598
512	480,201	4,516,598
513	480,176	4,516,598
514	480,151	4,516,598
515	480,126	4,516,598
516	480,101	4,516,598
517	480,076	4,516,598
518	480,051	4,516,598
519	480,026	4,516,598
520	480,001	4,516,598
521	479,976	4,516,598
522	479,951	4,516,598
523	479,926	4,516,598
524	479,901	4,516,597
525	479,876	4,516,597
526	479,851	4,516,597
527	479,826	4,516,597
528	479,801	4,516,597
529	479,776	4,516,597
530	479,751	4,516,597
531	479,726	4,516,597
532	479,701	4,516,597
533	479,676	4,516,597
534	479,651	4,516,597
535	479,626	4,516,597
536	479,601	4,516,597
537	479,576	4,516,597
538	479,551	4,516,597
539	479,526	4,516,597
540	479,501	4,516,597
541	479,476	4,516,597
542	479,451	4,516,597
543	479,426	4,516,597
544	479,401	4,516,597

Corner Number	UTM Easting	UTM Northing
545	479,388	4,516,585
546	479,388	4,516,560
547	479,388	4,516,535
548	479,388	4,516,510
549	479,388	4,516,485
550	479,388	4,516,460
551	479,387	4,516,435
552	479,387	4,516,410
553	479,387	4,516,385
554	479,387	4,516,360
555	479,387	4,516,335
556	479,387	4,516,310
557	479,387	4,516,285
558	479,387	4,516,260
559	479,387	4,516,235
560	479,387	4,516,210
561	479,387	4,516,185
562	479,387	4,516,160
563	479,387	4,516,135
564	479,387	4,516,110
565	479,387	4,516,085
566	479,387	4,516,060
567	479,387	4,516,035
568	479,387	4,516,010
569	479,387	4,515,985
570	479,387	4,515,960
571	479,387	4,515,935
572	479,387	4,515,910
573	479,387	4,515,885
574	479,387	4,515,860
575	479,387	4,515,835
576	479,387	4,515,810
577	479,387	4,515,785
578	479,387	4,515,760
579	479,387	4,515,735
580	479,387	4,515,710
581	479,387	4,515,685
582	479,387	4,515,660
583	479,387	4,515,635
584	479,387	4,515,610
585	479,387	4,515,585
586	479,387	4,515,560

Corner Number	UTM Easting	UTM Northing
587	479,387	4,515,535
588	479,387	4,515,510
589	479,387	4,515,485
590	479,387	4,515,460
591	479,387	4,515,435
592	479,387	4,515,410
593	479,387	4,515,385
594	479,387	4,515,360
595	479,387	4,515,335
596	479,387	4,515,310
597	479,387	4,515,285
598	479,387	4,515,260
599	479,387	4,515,235
600	479,387	4,515,210
601	479,387	4,515,185
602	479,387	4,515,160
603	479,387	4,515,135
604	479,387	4,515,110
605	479,387	4,515,085
606	479,387	4,515,060
607	479,387	4,515,035
608	479,387	4,515,010
609	479,387	4,514,985
610	479,387	4,514,960
611	479,370	4,514,952
612	479,345	4,514,952
613	479,320	4,514,952
614	479,295	4,514,951
615	479,270	4,514,951
616	479,245	4,514,951
617	479,220	4,514,951
618	479,195	4,514,951
619	479,170	4,514,950
620	479,145	4,514,950
621	479,120	4,514,950
622	479,095	4,514,950
623	479,070	4,514,950
624	479,045	4,514,949
625	479,020	4,514,949
626	478,995	4,514,949
627	478,970	4,514,949
628	478,945	4,514,949

Corner Number	UTM Easting	UTM Northing
629	478,920	4,514,948
630	478,895	4,514,948
631	478,870	4,514,948
632	478,845	4,514,948
633	478,820	4,514,947
634	478,795	4,514,947
635	478,770	4,514,947
636	478,745	4,514,947
637	478,720	4,514,947
638	478,695	4,514,946
639	478,670	4,514,946
640	478,645	4,514,946
641	478,620	4,514,946
642	478,595	4,514,946
643	478,584	4,514,960
644	478,585	4,514,985
645	478,585	4,515,010
646	478,585	4,515,035
647	478,586	4,515,060
648	478,586	4,515,085
649	478,586	4,515,110
650	478,587	4,515,135
651	478,587	4,515,160
652	478,588	4,515,185
653	478,588	4,515,210
654	478,588	4,515,235
655	478,589	4,515,260
656	478,589	4,515,285
657	478,589	4,515,310
658	478,590	4,515,335
659	478,590	4,515,360
660	478,590	4,515,385
661	478,589	4,515,408
662	478,564	4,515,408
663	478,539	4,515,407
664	478,514	4,515,407
665	478,489	4,515,407
666	478,464	4,515,406
667	478,439	4,515,406
668	478,414	4,515,406
669	478,389	4,515,405
670	478,364	4,515,405

Corner Number	UTM Easting	UTM Northing
671	478,339	4,515,405
672	478,314	4,515,405
673	478,289	4,515,404
674	478,264	4,515,404
675	478,239	4,515,404
676	478,214	4,515,403
677	478,194	4,515,391
678	478,175	4,515,374
679	478,157	4,515,357
680	478,139	4,515,340
681	478,120	4,515,323
682	478,102	4,515,306
683	478,084	4,515,289
684	478,065	4,515,272
685	478,047	4,515,255
686	478,028	4,515,238
687	478,010	4,515,221
688	477,992	4,515,204
689	477,973	4,515,187
690	477,955	4,515,170
691	477,937	4,515,153
692	477,917	4,515,139
693	477,893	4,515,131
694	477,869	4,515,124
695	477,845	4,515,116
696	477,822	4,515,109
697	477,798	4,515,101
698	477,774	4,515,093
699	477,750	4,515,086
700	477,726	4,515,078
701	477,702	4,515,071
702	477,679	4,515,063
703	477,655	4,515,056
704	477,631	4,515,048
705	477,607	4,515,040
706	477,591	4,515,022
707	477,577	4,515,002
708	477,562	4,514,982
709	477,548	4,514,961
710	477,533	4,514,941
711	477,519	4,514,920
712	477,504	4,514,900

Corner Number	UTM Easting	UTM Northing
713	477,490	4,514,880
714	477,478	4,514,858
715	477,471	4,514,834
716	477,464	4,514,810
717	477,457	4,514,786
718	477,449	4,514,762
719	477,442	4,514,738
720	477,435	4,514,714
721	477,428	4,514,690
722	477,421	4,514,666
723	477,413	4,514,642
724	477,406	4,514,618
725	477,399	4,514,594
726	477,392	4,514,571
727	477,385	4,514,547
728	477,378	4,514,523
729	477,370	4,514,499
730	477,363	4,514,475
731	477,356	4,514,451
732	477,348	4,514,427
733	477,340	4,514,403
734	477,332	4,514,380
735	477,324	4,514,356
736	477,316	4,514,332
737	477,308	4,514,309
738	477,300	4,514,285
739	477,293	4,514,261
740	477,285	4,514,237
741	477,276	4,514,214
742	477,256	4,514,199
743	477,237	4,514,183
744	477,218	4,514,167
745	477,199	4,514,151
746	477,179	4,514,135
747	477,160	4,514,119
748	477,141	4,514,103
749	477,122	4,514,087
750	477,102	4,514,071
751	477,083	4,514,055
752	477,064	4,514,039
753	477,044	4,514,023
754	477,025	4,514,007

Corner Number	UTM Easting	UTM Northing
755	477,006	4,513,991
756	476,987	4,513,975
757	476,966	4,513,961
758	476,945	4,513,948
759	476,924	4,513,934
760	476,903	4,513,920
761	476,882	4,513,906
762	476,862	4,513,893
763	476,841	4,513,879
764	476,820	4,513,865
765	476,799	4,513,852
766	476,778	4,513,838
767	476,757	4,513,824
768	476,742	4,513,804
769	476,729	4,513,783
770	476,716	4,513,762
771	476,703	4,513,740
772	476,690	4,513,719
773	476,677	4,513,698
774	476,664	4,513,677
775	476,651	4,513,655
776	476,638	4,513,634
777	476,625	4,513,613
778	476,612	4,513,591
779	476,599	4,513,570
780	476,586	4,513,549
781	476,573	4,513,527
782	476,560	4,513,506
783	476,547	4,513,485
784	476,534	4,513,463
785	476,521	4,513,442
786	476,531	4,513,434
787	476,556	4,513,434
788	476,581	4,513,434
789	476,606	4,513,434
790	476,631	4,513,435
791	476,656	4,513,435
792	476,681	4,513,435
793	476,706	4,513,435
794	476,731	4,513,436
795	476,756	4,513,436
796	476,781	4,513,436

Corner Number	UTM Easting	UTM Northing
797	476,806	4,513,436
798	476,831	4,513,436
799	476,856	4,513,437
800	476,881	4,513,437
801	476,906	4,513,437
802	476,931	4,513,437
803	476,956	4,513,438
804	476,981	4,513,438
805	477,006	4,513,438
806	477,031	4,513,438
807	477,056	4,513,438
808	477,081	4,513,439
809	477,085	4,513,417
810	477,086	4,513,392
811	477,086	4,513,367
812	477,087	4,513,342
813	477,088	4,513,317
814	477,088	4,513,292
815	477,089	4,513,267
816	477,090	4,513,243
817	477,090	4,513,218
818	477,091	4,513,193
819	477,092	4,513,168
820	477,092	4,513,143
821	477,093	4,513,118
822	477,094	4,513,093
823	477,094	4,513,068
824	477,095	4,513,043
825	477,095	4,513,018
826	477,095	4,512,993
827	477,096	4,512,968
828	477,096	4,512,943
829	477,096	4,512,918
830	477,096	4,512,893
831	477,097	4,512,868
832	477,097	4,512,843
833	477,097	4,512,818
834	477,098	4,512,793
835	477,098	4,512,768
836	477,098	4,512,743
837	477,098	4,512,718
838	477,099	4,512,693

Corner Number	UTM Easting	UTM Northing
839	477,099	4,512,668
840	477,099	4,512,643
841	477,099	4,512,618
842	477,092	4,512,600
843	477,067	4,512,600
844	477,042	4,512,600
845	477,017	4,512,599
846	476,992	4,512,599
847	476,967	4,512,599
848	476,942	4,512,598
849	476,917	4,512,598
850	476,892	4,512,597
851	476,867	4,512,597
852	476,842	4,512,597
853	476,817	4,512,596
854	476,792	4,512,596
855	476,767	4,512,596
856	476,742	4,512,595
857	476,717	4,512,595
858	476,692	4,512,594
859	476,667	4,512,594
860	476,642	4,512,594
861	476,617	4,512,593
862	476,592	4,512,593
863	476,567	4,512,592
864	476,542	4,512,592
865	476,517	4,512,592
866	476,492	4,512,591
867	476,467	4,512,591
868	476,442	4,512,591
869	476,417	4,512,590
870	476,392	4,512,590
871	476,367	4,512,589
872	476,342	4,512,589
873	476,317	4,512,589
874	476,292	4,512,588
875	476,267	4,512,588
876	476,242	4,512,588
877	476,217	4,512,587
878	476,192	4,512,587
879	476,167	4,512,586
880	476,142	4,512,586

Corner Number	UTM Easting	UTM Northing
881	476,117	4,512,586
882	476,092	4,512,585
883	476,089	4,512,563
884	476,089	4,512,538
885	476,089	4,512,513
886	476,089	4,512,488
887	476,090	4,512,463
888	476,090	4,512,438
889	476,090	4,512,413
890	476,090	4,512,388
891	476,090	4,512,363
892	476,090	4,512,338
893	476,090	4,512,313
894	476,091	4,512,288
895	476,091	4,512,263
896	476,091	4,512,238
897	476,091	4,512,213
898	476,091	4,512,188
899	476,091	4,512,163
900	476,092	4,512,138
901	476,092	4,512,113
902	476,092	4,512,088
903	476,092	4,512,063
904	476,092	4,512,038
905	476,092	4,512,013
906	476,092	4,511,988
907	476,093	4,511,963
908	476,093	4,511,938
909	476,093	4,511,913
910	476,093	4,511,888
911	476,093	4,511,863
912	476,093	4,511,838
913	476,094	4,511,813
914	476,094	4,511,788
915	476,094	4,511,763
916	476,075	4,511,757
917	476,050	4,511,758
918	476,025	4,511,758
919	476,000	4,511,758
920	475,975	4,511,758
921	475,950	4,511,759
922	475,925	4,511,759

Corner Number	UTM Easting	UTM Northing
923	475,900	4,511,759
924	475,875	4,511,759
925	475,850	4,511,760
926	475,825	4,511,760
927	475,800	4,511,760
928	475,775	4,511,760
929	475,750	4,511,761
930	475,725	4,511,761
931	475,700	4,511,761
932	475,675	4,511,761
933	475,650	4,511,762
934	475,625	4,511,762
935	475,600	4,511,762
936	475,575	4,511,762
937	475,550	4,511,763
938	475,525	4,511,763
939	475,500	4,511,763
940	475,475	4,511,763
941	475,450	4,511,764
942	475,425	4,511,764
943	475,400	4,511,764
944	475,375	4,511,764
945	475,350	4,511,765
946	475,325	4,511,765
947	475,300	4,511,765
948	475,275	4,511,765
949	475,250	4,511,766
950	475,225	4,511,766
951	475,200	4,511,766
952	475,175	4,511,766
953	475,150	4,511,767
954	475,125	4,511,767
955	475,100	4,511,767
956	475,075	4,511,767
957	475,050	4,511,768
958	475,025	4,511,768
959	475,000	4,511,768
960	474,975	4,511,768
961	474,950	4,511,769
962	474,925	4,511,769
963	474,900	4,511,769
964	474,875	4,511,769

Corner Number	UTM Easting	UTM Northing
965	474,850	4,511,770
966	474,825	4,511,770
967	474,800	4,511,770
968	474,775	4,511,770
969	474,750	4,511,771
970	474,725	4,511,771
971	474,700	4,511,771
972	474,675	4,511,771
973	474,650	4,511,772
974	474,625	4,511,772
975	474,600	4,511,772
976	474,575	4,511,772
977	474,550	4,511,772
978	474,525	4,511,772
979	474,500	4,511,772
980	474,475	4,511,772
981	474,450	4,511,772
982	474,425	4,511,771
983	474,400	4,511,771
984	474,375	4,511,771
985	474,350	4,511,771
986	474,325	4,511,771
987	474,300	4,511,770
988	474,275	4,511,770
989	474,250	4,511,770
990	474,225	4,511,770
991	474,200	4,511,770
992	474,175	4,511,770
993	474,150	4,511,769
994	474,125	4,511,769
995	474,100	4,511,769
996	474,075	4,511,769
997	474,050	4,511,769
998	474,025	4,511,768
999	474,000	4,511,768
1,000	473,975	4,511,768
1,001	473,950	4,511,768
1,002	473,925	4,511,768
1,003	473,900	4,511,767
1,004	473,894	4,511,787
1,005	473,894	4,511,812
1,006	473,894	4,511,837

Corner Number	UTM Easting	UTM Northing
1,007	473,895	4,511,862
1,008	473,895	4,511,887
1,009	473,895	4,511,912
1,010	473,895	4,511,937
1,011	473,895	4,511,962
1,012	473,895	4,511,987
1,013	473,895	4,512,012
1,014	473,895	4,512,037
1,015	473,895	4,512,062
1,016	473,895	4,512,087
1,017	473,895	4,512,112
1,018	473,895	4,512,137
1,019	473,896	4,512,162
1,020	473,896	4,512,187
1,021	473,896	4,512,212
1,022	473,896	4,512,237
1,023	473,896	4,512,262
1,024	473,896	4,512,287
1,025	473,896	4,512,312
1,026	473,896	4,512,337
1,027	473,896	4,512,362
1,028	473,896	4,512,387
1,029	473,896	4,512,412
1,030	473,896	4,512,437
1,031	473,896	4,512,462
1,032	473,897	4,512,487
1,033	473,897	4,512,512
1,034	473,897	4,512,537
1,035	473,897	4,512,562
1,036	473,897	4,512,587
1,037	473,897	4,512,612
1,038	473,897	4,512,637
1,039	473,897	4,512,662
1,040	473,897	4,512,687
1,041	473,897	4,512,712
1,042	473,897	4,512,737
1,043	473,897	4,512,762
1,044	473,897	4,512,787
1,045	473,898	4,512,812
1,046	473,898	4,512,837
1,047	473,898	4,512,862
1,048	473,898	4,512,887

Corner Number	UTM Easting	UTM Northing
1,049	473,898	4,512,912
1,050	473,898	4,512,937
1,051	473,898	4,512,962
1,052	473,898	4,512,987
1,053	473,898	4,513,012
1,054	473,898	4,513,037
1,055	473,898	4,513,062
1,056	473,898	4,513,087
1,057	473,898	4,513,112
1,058	473,899	4,513,137
1,059	473,899	4,513,162
1,060	473,899	4,513,187
1,061	473,899	4,513,212
1,062	473,899	4,513,237
1,063	473,899	4,513,262
1,064	473,899	4,513,287
1,065	473,899	4,513,312
1,066	473,899	4,513,337
1,067	473,899	4,513,362
1,068	473,899	4,513,387
1,069	473,923	4,513,389
1,070	473,948	4,513,389
1,071	473,973	4,513,390
1,072	473,998	4,513,391
1,073	474,023	4,513,392
1,074	474,048	4,513,392
1,075	474,073	4,513,393
1,076	474,098	4,513,394
1,077	474,123	4,513,395
1,078	474,148	4,513,395
1,079	474,173	4,513,396
1,080	474,198	4,513,397
1,081	474,223	4,513,397
1,082	474,248	4,513,398
1,083	474,273	4,513,399
1,084	474,298	4,513,400
1,085	474,323	4,513,400
1,086	474,348	4,513,401
1,087	474,373	4,513,402
1,088	474,398	4,513,403
1,089	474,423	4,513,403
1,090	474,448	4,513,404

Corner Number	UTM Easting	UTM Northing
1,091	474,473	4,513,405
1,092	474,498	4,513,406
1,093	474,523	4,513,406
1,094	474,548	4,513,407
1,095	474,573	4,513,408
1,096	474,590	4,513,416
1,097	474,590	4,513,441
1,098	474,590	4,513,466
1,099	474,590	4,513,491
1,100	474,590	4,513,516
1,101	474,589	4,513,541
1,102	474,589	4,513,566
1,103	474,589	4,513,591
1,104	474,589	4,513,616
1,105	474,589	4,513,641
1,106	474,589	4,513,666
1,107	474,589	4,513,691
1,108	474,588	4,513,716
1,109	474,588	4,513,741
1,110	474,588	4,513,766
1,111	474,588	4,513,791
1,112	474,588	4,513,816
1,113	474,588	4,513,841
1,114	474,588	4,513,866
1,115	474,587	4,513,891
1,116	474,587	4,513,916
1,117	474,587	4,513,941
1,118	474,587	4,513,966
1,119	474,587	4,513,991
1,120	474,587	4,514,016
1,121	474,587	4,514,041
1,122	474,586	4,514,066
1,123	474,586	4,514,091
1,124	474,586	4,514,116
1,125	474,586	4,514,141
1,126	474,586	4,514,166
1,127	474,586	4,514,191
1,128	474,585	4,514,216
1,129	474,585	4,514,241
1,130	474,585	4,514,266
1,131	474,599	4,514,277
1,132	474,624	4,514,277

Corner Number	UTM Easting	UTM Northing
1,133	474,649	4,514,277
1,134	474,674	4,514,276
1,135	474,699	4,514,276
1,136	474,724	4,514,276
1,137	474,749	4,514,276
1,138	474,774	4,514,276
1,139	474,799	4,514,276
1,140	474,824	4,514,276
1,141	474,849	4,514,275
1,142	474,874	4,514,275
1,143	474,899	4,514,275
1,144	474,924	4,514,275
1,145	474,949	4,514,275
1,146	474,974	4,514,275
1,147	474,999	4,514,275
1,148	475,024	4,514,274
1,149	475,049	4,514,274
1,150	475,074	4,514,274
1,151	475,099	4,514,274
1,152	475,124	4,514,274
1,153	475,149	4,514,274
1,154	475,174	4,514,274
1,155	475,199	4,514,273
1,156	475,224	4,514,273
1,157	475,249	4,514,273
1,158	475,274	4,514,273
1,159	475,299	4,514,273
1,160	475,324	4,514,273
1,161	475,349	4,514,273
1,162	475,374	4,514,272
1,163	475,399	4,514,272
1,164	475,424	4,514,272
1,165	475,449	4,514,272
1,166	475,474	4,514,272
1,167	475,499	4,514,272
1,168	475,524	4,514,272
1,169	475,549	4,514,271
1,170	475,574	4,514,271
1,171	475,599	4,514,271
1,172	475,624	4,514,271
1,173	475,649	4,514,271
1,174	475,674	4,514,271

Corner Number	UTM Easting	UTM Northing
1,175	475,699	4,514,271
1,176	475,724	4,514,270
1,177	475,749	4,514,270
1,178	475,774	4,514,270
1,179	475,799	4,514,270
1,180	475,824	4,514,270
1,181	475,849	4,514,270
1,182	475,874	4,514,269
1,183	475,899	4,514,269
1,184	475,924	4,514,269
1,185	475,949	4,514,269
1,186	475,974	4,514,269
1,187	475,999	4,514,269
1,188	476,024	4,514,269
1,189	476,049	4,514,268
1,190	476,074	4,514,268
1,191	476,099	4,514,268
1,192	476,124	4,514,268
1,193	476,149	4,514,268
1,194	476,174	4,514,268
1,195	476,199	4,514,268
1,196	476,224	4,514,267
1,197	476,249	4,514,267
1,198	476,274	4,514,267
1,199	476,299	4,514,267
1,200	476,324	4,514,267
1,201	476,349	4,514,267
1,202	476,374	4,514,266
1,203	476,399	4,514,266
1,204	476,424	4,514,266
1,205	476,449	4,514,265
1,206	476,474	4,514,265
1,207	476,499	4,514,265
1,208	476,524	4,514,264
1,209	476,549	4,514,264
1,210	476,574	4,514,264
1,211	476,599	4,514,263
1,212	476,624	4,514,263
1,213	476,649	4,514,263
1,214	476,674	4,514,262
1,215	476,699	4,514,262
1,216	476,723	4,514,265

Corner Number	UTM Easting	UTM Northing
1,217	476,742	4,514,281
1,218	476,761	4,514,297
1,219	476,781	4,514,313
1,220	476,800	4,514,328
1,221	476,819	4,514,344
1,222	476,839	4,514,360
1,223	476,858	4,514,376
1,224	476,877	4,514,392
1,225	476,897	4,514,408
1,226	476,916	4,514,423
1,227	476,935	4,514,439
1,228	476,955	4,514,455
1,229	476,973	4,514,472
1,230	476,983	4,514,495
1,231	476,992	4,514,518
1,232	477,002	4,514,541
1,233	477,011	4,514,564
1,234	477,021	4,514,587
1,235	477,031	4,514,610
1,236	477,040	4,514,633
1,237	477,050	4,514,656
1,238	477,059	4,514,680
1,239	477,069	4,514,703
1,240	477,078	4,514,726
1,241	477,088	4,514,749
1,242	477,097	4,514,772
1,243	477,107	4,514,795
1,244	477,119	4,514,817
1,245	477,130	4,514,839
1,246	477,141	4,514,862
1,247	477,153	4,514,884
1,248	477,164	4,514,906
1,249	477,175	4,514,929
1,250	477,187	4,514,951
1,251	477,198	4,514,973
1,252	477,209	4,514,995
1,253	477,221	4,515,018
1,254	477,232	4,515,040
1,255	477,248	4,515,059
1,256	477,263	4,515,079
1,257	477,279	4,515,098
1,258	477,295	4,515,118

Corner Number	UTM Easting	UTM Northing
1,259	477,310	4,515,138
1,260	477,326	4,515,157
1,261	477,341	4,515,177
1,262	477,357	4,515,196
1,263	477,372	4,515,216
1,264	477,388	4,515,235
1,265	477,404	4,515,255
1,266	477,424	4,515,268
1,267	477,448	4,515,276
1,268	477,471	4,515,284
1,269	477,495	4,515,293
1,270	477,518	4,515,301
1,271	477,542	4,515,309
1,272	477,565	4,515,318
1,273	477,589	4,515,326
1,274	477,612	4,515,335
1,275	477,636	4,515,343
1,276	477,660	4,515,351
1,277	477,683	4,515,360
1,278	477,707	4,515,368
1,279	477,730	4,515,376
1,280	477,754	4,515,385
1,281	477,777	4,515,393
1,282	477,791	4,515,409
1,283	477,791	4,515,434
1,284	477,790	4,515,459
1,285	477,790	4,515,484
1,286	477,790	4,515,509
1,287	477,790	4,515,534
1,288	477,790	4,515,559
1,289	477,789	4,515,584
1,290	477,789	4,515,609
1,291	477,789	4,515,634
1,292	477,789	4,515,659
1,293	477,789	4,515,684
1,294	477,789	4,515,709
1,295	477,788	4,515,734
1,296	477,788	4,515,759
1,297	477,788	4,515,784
1,298	477,788	4,515,809
1,299	477,788	4,515,834
1,300	477,787	4,515,859

Corner Number	UTM Easting	UTM Northing
1,301	477,787	4,515,884
1,302	477,787	4,515,909
1,303	477,787	4,515,934
1,304	477,787	4,515,959
1,305	477,786	4,515,984
1,306	477,786	4,516,009
1,307	477,786	4,516,034
1,308	477,786	4,516,059
1,309	477,786	4,516,084
1,310	477,786	4,516,109
1,311	477,785	4,516,134
1,312	477,785	4,516,159
1,313	477,785	4,516,184
1,314	477,785	4,516,209
1,315	477,785	4,516,234
1,316	477,784	4,516,259
1,317	477,784	4,516,284
1,318	477,784	4,516,309
1,319	477,784	4,516,334
1,320	477,784	4,516,359
1,321	477,783	4,516,384
1,322	477,783	4,516,409
1,323	477,783	4,516,434
1,324	477,783	4,516,459
1,325	477,783	4,516,484
1,326	477,783	4,516,509
1,327	477,782	4,516,534
1,328	477,782	4,516,559
1,329	477,791	4,516,575
1,330	477,816	4,516,575
1,331	477,841	4,516,576
1,332	477,866	4,516,576
1,333	477,891	4,516,576
1,334	477,916	4,516,577
1,335	477,941	4,516,577
1,336	477,966	4,516,577
1,337	477,991	4,516,578
1,338	478,016	4,516,578
1,339	478,041	4,516,578
1,340	478,066	4,516,579
1,341	478,091	4,516,579
1,342	478,116	4,516,579

Corner Number	UTM Easting	UTM Northing
1,343	478,141	4,516,580
1,344	478,166	4,516,580
1,345	478,191	4,516,580
1,346	478,216	4,516,581
1,347	478,241	4,516,581
1,348	478,245	4,516,602
1,349	478,245	4,516,627
1,350	478,245	4,516,652
1,351	478,245	4,516,677
1,352	478,245	4,516,702
1,353	478,245	4,516,727
1,354	478,245	4,516,752
1,355	478,245	4,516,777
1,356	478,245	4,516,802
1,357	478,244	4,516,827
1,358	478,244	4,516,852
1,359	478,244	4,516,877
1,360	478,244	4,516,902
1,361	478,244	4,516,927
1,362	478,244	4,516,952
1,363	478,244	4,516,977
1,364	478,244	4,517,002
1,365	478,255	4,517,015
1,366	478,280	4,517,015
1,367	478,305	4,517,016
1,368	478,330	4,517,016
1,369	478,355	4,517,016
1,370	478,380	4,517,016
1,371	478,405	4,517,016
1,372	478,430	4,517,016
1,373	478,455	4,517,017
1,374	478,480	4,517,017
1,375	478,505	4,517,017
1,376	478,530	4,517,017
1,377	478,555	4,517,017
1,378	478,580	4,517,018
1,379	478,605	4,517,018
1,380	478,630	4,517,018
1,381	478,655	4,517,018
1,382	478,680	4,517,018
1,383	478,705	4,517,018
1,384	478,730	4,517,019

Corner Number	UTM Easting	UTM Northing
1,385	478,755	4,517,019
1,386	478,780	4,517,019
1,387	478,805	4,517,019
1,388	478,830	4,517,019
1,389	478,855	4,517,019
1,390	478,880	4,517,020
1,391	478,905	4,517,020
1,392	478,930	4,517,020
1,393	478,955	4,517,020
1,394	478,977	4,517,028
1,395	478,993	4,517,046
1,396	479,010	4,517,065
1,397	479,027	4,517,084
1,398	479,043	4,517,103
1,399	479,060	4,517,121
1,400	479,076	4,517,140
1,401	479,093	4,517,159
1,402	479,109	4,517,178
1,403	479,126	4,517,196
1,404	479,142	4,517,215
1,405	479,159	4,517,234
1,406	479,175	4,517,253
1,407	479,192	4,517,271
1,408	479,209	4,517,290
1,409	479,225	4,517,309
1,410	479,242	4,517,328
1,411	479,258	4,517,346
1,412	479,275	4,517,365
1,413	479,291	4,517,384
1,414	479,308	4,517,403
1,415	479,324	4,517,421
1,416	479,341	4,517,440
1,417	479,357	4,517,459
1,418	479,374	4,517,478
1,419	479,375	4,517,502
1,420	479,374	4,517,527
1,421	479,374	4,517,552
1,422	479,373	4,517,577
1,423	479,373	4,517,602
1,424	479,373	4,517,627
1,425	479,372	4,517,652
1,426	479,372	4,517,677

Corner Number	UTM Easting	UTM Northing
1,427	479,371	4,517,702
1,428	479,371	4,517,727
1,429	479,371	4,517,752
1,430	479,370	4,517,777
1,431	479,370	4,517,802
1,432	479,369	4,517,827
1,433	479,369	4,517,852
1,434	479,369	4,517,877
1,435	479,368	4,517,902
1,436	479,368	4,517,927
1,437	479,367	4,517,952
1,438	479,367	4,517,977
1,439	479,366	4,518,002
1,440	479,366	4,518,027
1,441	479,366	4,518,052
1,442	479,365	4,518,077
1,443	479,365	4,518,102
1,444	479,364	4,518,127
1,445	479,364	4,518,152
1,446	479,364	4,518,177
1,447	479,359	4,518,198
1,448	479,334	4,518,198
1,449	479,309	4,518,198
1,450	479,284	4,518,198
1,451	479,259	4,518,199
1,452	479,234	4,518,199
1,453	479,209	4,518,199
1,454	479,184	4,518,199
1,455	479,159	4,518,199
1,456	479,134	4,518,199
1,457	479,109	4,518,199
1,458	479,084	4,518,199
1,459	479,059	4,518,200
1,460	479,034	4,518,200
1,461	479,009	4,518,200
1,462	478,984	4,518,200
1,463	478,959	4,518,200
1,464	478,934	4,518,200
1,465	478,909	4,518,200
1,466	478,884	4,518,201
1,467	478,859	4,518,201
1,468	478,834	4,518,201

Corner Number	UTM Easting	UTM Northing
1,469	478,809	4,518,201
1,470	478,784	4,518,201
1,471	478,759	4,518,201
1,472	478,734	4,518,201
1,473	478,709	4,518,202
1,474	478,684	4,518,202
1,475	478,659	4,518,202
1,476	478,634	4,518,202
1,477	478,609	4,518,202
1,478	478,584	4,518,202
1,479	478,559	4,518,201
1,480	478,534	4,518,201
1,481	478,509	4,518,200
1,482	478,484	4,518,200
1,483	478,459	4,518,199
1,484	478,434	4,518,199
1,485	478,409	4,518,198
1,486	478,384	4,518,198
1,487	478,359	4,518,197
1,488	478,334	4,518,197
1,489	478,309	4,518,196
1,490	478,284	4,518,196
1,491	478,259	4,518,195
1,492	478,234	4,518,195
1,493	478,209	4,518,194
1,494	478,184	4,518,193
1,495	478,159	4,518,193
1,496	478,134	4,518,192
1,497	478,109	4,518,192
1,498	478,084	4,518,191
1,499	478,059	4,518,191
1,500	478,034	4,518,190
1,501	478,009	4,518,190
1,502	477,984	4,518,189
1,503	477,959	4,518,189
1,504	477,934	4,518,188
1,505	477,909	4,518,188
1,506	477,884	4,518,187
1,507	477,859	4,518,186
1,508	477,834	4,518,186
1,509	477,809	4,518,185
1,510	477,784	4,518,185

Corner Number	UTM Easting	UTM Northing
1,511	477,759	4,518,185
1,512	477,734	4,518,184
1,513	477,709	4,518,184
1,514	477,684	4,518,184
1,515	477,659	4,518,184
1,516	477,634	4,518,184
1,517	477,609	4,518,184
1,518	477,584	4,518,184
1,519	477,559	4,518,184
1,520	477,534	4,518,184
1,521	477,509	4,518,183
1,522	477,484	4,518,183
1,523	477,459	4,518,183
1,524	477,434	4,518,183
1,525	477,409	4,518,183
1,526	477,384	4,518,183
1,527	477,359	4,518,183
1,528	477,334	4,518,183
1,529	477,309	4,518,183
1,530	477,284	4,518,183
1,531	477,259	4,518,182
1,532	477,234	4,518,182
1,533	477,209	4,518,182
1,534	477,184	4,518,182
1,535	477,159	4,518,182
1,536	477,134	4,518,182
1,537	477,109	4,518,182
1,538	477,084	4,518,182
1,539	477,059	4,518,182
1,540	477,034	4,518,181
1,541	477,009	4,518,181
1,542	476,984	4,518,181
1,543	476,959	4,518,181
1,544	476,934	4,518,181
1,545	476,909	4,518,181
1,546	476,884	4,518,181
1,547	476,859	4,518,181
1,548	476,834	4,518,181
1,549	476,809	4,518,180
1,550	476,784	4,518,180
1,551	476,759	4,518,180
1,552	476,734	4,518,180

Corner Number	UTM Easting	UTM Northing
1,553	476,709	4,518,180
1,554	476,684	4,518,180
1,555	476,659	4,518,180
1,556	476,634	4,518,180
1,557	476,609	4,518,180
1,558	476,584	4,518,179
1,559	476,559	4,518,179
1,560	476,534	4,518,179
1,561	476,509	4,518,179
1,562	476,484	4,518,179
1,563	476,459	4,518,179
1,564	476,434	4,518,179
1,565	476,409	4,518,179
1,566	476,384	4,518,179
1,567	476,359	4,518,179
1,568	476,334	4,518,178
1,569	476,309	4,518,178
1,570	476,284	4,518,178
1,571	476,259	4,518,178
1,572	476,234	4,518,178
1,573	476,209	4,518,178
1,574	476,184	4,518,178
1,575	476,160	4,518,178
1,576	476,160	4,518,203
1,577	476,160	4,518,228
1,578	476,160	4,518,253
1,579	476,159	4,518,278
1,580	476,159	4,518,303
1,581	476,159	4,518,328
1,582	476,159	4,518,353
1,583	476,158	4,518,378
1,584	476,158	4,518,403
1,585	476,158	4,518,428
1,586	476,158	4,518,453
1,587	476,158	4,518,478
1,588	476,157	4,518,503
1,589	476,157	4,518,528
1,590	476,157	4,518,553
1,591	476,157	4,518,578
1,592	476,157	4,518,603
1,593	476,156	4,518,628
1,594	476,156	4,518,653

Corner Number	UTM Easting	UTM Northing
1,595	476,156	4,518,678
1,596	476,156	4,518,703
1,597	476,156	4,518,728
1,598	476,155	4,518,753
1,599	476,155	4,518,778
1,600	476,155	4,518,803
1,601	476,155	4,518,828
1,602	476,155	4,518,853
1,603	476,154	4,518,878
1,604	476,154	4,518,903
1,605	476,154	4,518,928
1,606	476,154	4,518,953
1,607	476,153	4,518,978
1,608	476,153	4,519,003
1,609	476,153	4,519,028
1,610	476,153	4,519,053
1,611	476,153	4,519,078
1,612	476,152	4,519,103
1,613	476,152	4,519,128
1,614	476,152	4,519,153
1,615	476,152	4,519,178
1,616	476,152	4,519,203
1,617	476,151	4,519,228
1,618	476,151	4,519,253
1,619	476,151	4,519,278
1,620	476,151	4,519,303
1,621	476,151	4,519,328
1,622	476,150	4,519,353
1,623	476,150	4,519,378
1,624	476,150	4,519,403
1,625	476,150	4,519,428
1,626	476,150	4,519,453
1,627	476,149	4,519,478
1,628	476,149	4,519,503
1,629	476,149	4,519,528
1,630	476,149	4,519,553
1,631	476,148	4,519,578
1,632	476,148	4,519,603
1,633	476,148	4,519,628
1,634	476,148	4,519,653
1,635	476,148	4,519,678
1,636	476,147	4,519,703

Corner Number	UTM Easting	UTM Northing
1,637	476,147	4,519,728
1,638	476,147	4,519,753
1,639	476,147	4,519,778
1,640	476,147	4,519,803
1,641	476,159	4,519,816
1,642	476,184	4,519,816
1,643	476,209	4,519,815
1,644	476,234	4,519,815
1,645	476,259	4,519,815
1,646	476,284	4,519,814
1,647	476,309	4,519,814
1,648	476,334	4,519,814
1,649	476,359	4,519,814
1,650	476,384	4,519,813
1,651	476,409	4,519,813
1,652	476,434	4,519,813
1,653	476,459	4,519,813
1,654	476,484	4,519,812
1,655	476,509	4,519,812
1,656	476,534	4,519,812
1,657	476,559	4,519,812
1,658	476,584	4,519,811
1,659	476,609	4,519,811
1,660	476,634	4,519,811
1,661	476,659	4,519,811
1,662	476,684	4,519,810
1,663	476,709	4,519,810
1,664	476,734	4,519,810
1,665	476,759	4,519,809
1,666	476,784	4,519,809
1,667	476,809	4,519,809
1,668	476,834	4,519,809
1,669	476,859	4,519,808
1,670	476,884	4,519,808
1,671	476,909	4,519,808
1,672	476,934	4,519,808
1,673	476,959	4,519,807
1,674	476,984	4,519,807
1,675	477,009	4,519,807
1,676	477,034	4,519,807
1,677	477,059	4,519,806
1,678	477,084	4,519,806

Corner Number	UTM Easting	UTM Northing
1,679	477,109	4,519,806
1,680	477,134	4,519,806
1,681	477,159	4,519,805
1,682	477,184	4,519,805
1,683	477,209	4,519,805
1,684	477,234	4,519,804
1,685	477,259	4,519,804
1,686	477,284	4,519,804
1,687	477,309	4,519,804
1,688	477,334	4,519,803
1,689	477,359	4,519,803
1,690	477,384	4,519,803
1,691	477,409	4,519,803
1,692	477,434	4,519,802
1,693	477,459	4,519,802
1,694	477,484	4,519,802
1,695	477,509	4,519,802
1,696	477,534	4,519,801
1,697	477,559	4,519,801
1,698	477,584	4,519,801
1,699	477,609	4,519,801
1,700	477,634	4,519,800
1,701	477,659	4,519,800
1,702	477,684	4,519,800
1,703	477,709	4,519,799
1,704	477,734	4,519,799
1,705	477,759	4,519,799
1,706	477,784	4,519,799
1,707	477,809	4,519,799
1,708	477,834	4,519,800
1,709	477,859	4,519,800
1,710	477,884	4,519,800
1,711	477,909	4,519,801
1,712	477,934	4,519,801
1,713	477,959	4,519,801
1,714	477,984	4,519,802
1,715	478,009	4,519,802
1,716	478,034	4,519,802
1,717	478,059	4,519,802
1,718	478,084	4,519,803
1,719	478,109	4,519,803
1,720	478,134	4,519,803

Corner Number	UTM Easting	UTM Northing
1,721	478,159	4,519,804
1,722	478,184	4,519,804
1,723	478,209	4,519,804
1,724	478,234	4,519,805
1,725	478,259	4,519,805
1,726	478,284	4,519,805
1,727	478,309	4,519,805
1,728	478,334	4,519,806
1,729	478,359	4,519,806
1,730	478,384	4,519,806
1,731	478,409	4,519,807
1,732	478,434	4,519,807
1,733	478,459	4,519,807
1,734	478,484	4,519,807
1,735	478,509	4,519,808
1,736	478,534	4,519,808
1,737	478,559	4,519,808
1,738	478,584	4,519,809
1,739	478,609	4,519,809
1,740	478,634	4,519,809
1,741	478,659	4,519,810
1,742	478,684	4,519,810
1,743	478,709	4,519,810
1,744	478,734	4,519,810
1,745	478,759	4,519,811
1,746	478,784	4,519,811
1,747	478,809	4,519,811
1,748	478,834	4,519,812
1,749	478,859	4,519,812
1,750	478,884	4,519,812
1,751	478,909	4,519,812
1,752	478,934	4,519,813
1,753	478,959	4,519,813
1,754	478,984	4,519,813
1,755	479,009	4,519,814
1,756	479,034	4,519,814
1,757	479,059	4,519,814
1,758	479,084	4,519,815
1,759	479,109	4,519,815
1,760	479,134	4,519,815
1,761	479,159	4,519,815
1,762	479,184	4,519,816

Corner Number	UTM Easting	UTM Northing
1,763	479,209	4,519,816
1,764	479,234	4,519,816
1,765	479,259	4,519,817
1,766	479,284	4,519,817
1,767	479,309	4,519,817
1,768	479,334	4,519,817
1,769	479,359	4,519,818
1,770	479,370	4,519,832
1,771	479,370	4,519,857
1,772	479,370	4,519,882
1,773	479,370	4,519,907
1,774	479,369	4,519,932
1,775	479,369	4,519,957
1,776	479,369	4,519,982
1,777	479,369	4,520,007
1,778	479,369	4,520,032
1,779	479,369	4,520,057
1,780	479,369	4,520,082
1,781	479,369	4,520,107
1,782	479,369	4,520,132
1,783	479,369	4,520,157
1,784	479,368	4,520,182
1,785	479,368	4,520,207
1,786	479,368	4,520,232
1,787	479,368	4,520,257
1,788	479,368	4,520,282
1,789	479,368	4,520,307
1,790	479,368	4,520,332
1,791	479,368	4,520,357
1,792	479,368	4,520,382
1,793	479,368	4,520,407
1,794	479,367	4,520,432
1,795	479,367	4,520,457
1,796	479,367	4,520,482
1,797	479,367	4,520,507
1,798	479,367	4,520,532
1,799	479,367	4,520,557
1,800	479,367	4,520,582
1,801	479,367	4,520,607
1,802	479,367	4,520,632
1,803	479,367	4,520,657
1,804	479,366	4,520,682

Corner Number	UTM Easting	UTM Northing
1,805	479,366	4,520,707
1,806	479,366	4,520,732
1,807	479,366	4,520,757
1,808	479,366	4,520,782
1,809	479,366	4,520,807
1,810	479,366	4,520,832
1,811	479,366	4,520,857
1,812	479,366	4,520,882
1,813	479,365	4,520,907
1,814	479,365	4,520,932
1,815	479,365	4,520,957
1,816	479,365	4,520,982
1,817	479,365	4,521,007
1,818	479,365	4,521,032
1,819	479,365	4,521,057
1,820	479,365	4,521,082
1,821	479,365	4,521,107
1,822	479,365	4,521,132
1,823	479,364	4,521,157
1,824	479,364	4,521,182
1,825	479,364	4,521,207
1,826	479,364	4,521,232
1,827	479,364	4,521,257
1,828	479,364	4,521,282
1,829	479,364	4,521,307
1,830	479,364	4,521,332
1,831	479,364	4,521,357
1,832	479,364	4,521,382
1,833	479,363	4,521,407
1,834	479,363	4,521,432
1,835	479,364	4,521,457
1,836	479,364	4,521,482
1,837	479,364	4,521,507
1,838	479,364	4,521,532
1,839	479,364	4,521,557
1,840	479,364	4,521,582
1,841	479,364	4,521,607
1,842	479,364	4,521,632
1,843	479,365	4,521,657
1,844	479,365	4,521,682
1,845	479,365	4,521,707
1,846	479,365	4,521,732

Corner Number	UTM Easting	UTM Northing
1,847	479,365	4,521,757
1,848	479,365	4,521,782
1,849	479,365	4,521,807
1,850	479,366	4,521,832
1,851	479,366	4,521,857
1,852	479,366	4,521,882
1,853	479,366	4,521,907
1,854	479,366	4,521,932
1,855	479,366	4,521,957
1,856	479,366	4,521,982
1,857	479,367	4,522,007
1,858	479,367	4,522,032
1,859	479,367	4,522,057
1,860	479,367	4,522,082
1,861	479,367	4,522,107
1,862	479,367	4,522,132
1,863	479,367	4,522,157
1,864	479,368	4,522,182
1,865	479,368	4,522,207
1,866	479,368	4,522,232
1,867	479,368	4,522,257
1,868	479,368	4,522,282
1,869	479,368	4,522,307
1,870	479,368	4,522,332
1,871	479,368	4,522,357
1,872	479,369	4,522,382
1,873	479,369	4,522,407
1,874	479,369	4,522,432
1,875	479,369	4,522,457
1,876	479,369	4,522,482
1,877	479,369	4,522,507
1,878	479,369	4,522,532
1,879	479,370	4,522,557
1,880	479,370	4,522,582
1,881	479,370	4,522,607
1,882	479,370	4,522,632
1,883	479,370	4,522,657
1,884	479,370	4,522,682
1,885	479,370	4,522,707
1,886	479,371	4,522,732
1,887	479,371	4,522,757
1,888	479,371	4,522,782

Corner Number	UTM Easting	UTM Northing
1,889	479,371	4,522,807
1,890	479,371	4,522,832
1,891	479,371	4,522,857
1,892	479,371	4,522,882
1,893	479,372	4,522,907
1,894	479,372	4,522,932
1,895	479,372	4,522,957
1,896	479,372	4,522,982
1,897	479,372	4,523,007
1,898	479,372	4,523,032
1,899	479,372	4,523,057
1,900	479,372	4,523,082
1,901	479,378	4,523,101
1,902	479,403	4,523,101
1,903	479,428	4,523,101
1,904	479,453	4,523,101
1,905	479,478	4,523,101
1,906	479,503	4,523,101
1,907	479,528	4,523,101
1,908	479,553	4,523,101
1,909	479,578	4,523,101
1,910	479,603	4,523,101
1,911	479,628	4,523,101
1,912	479,653	4,523,100
1,913	479,678	4,523,100
1,914	479,703	4,523,100
1,915	479,728	4,523,100
1,916	479,753	4,523,100
1,917	479,778	4,523,100
1,918	479,803	4,523,100
1,919	479,828	4,523,100
1,920	479,853	4,523,100
1,921	479,878	4,523,100
1,922	479,903	4,523,100
1,923	479,928	4,523,100
1,924	479,953	4,523,100
1,925	479,978	4,523,099
1,926	480,003	4,523,099
1,927	480,028	4,523,099
1,928	480,053	4,523,099
1,929	480,078	4,523,099
1,930	480,103	4,523,099

Corner Number	UTM Easting	UTM Northing
1,931	480,128	4,523,099
1,932	480,153	4,523,099
1,933	480,178	4,523,099
1,934	480,203	4,523,099
1,935	480,228	4,523,099
1,936	480,253	4,523,099
1,937	480,278	4,523,099
1,938	480,303	4,523,098
1,939	480,328	4,523,098
1,940	480,353	4,523,098
1,941	480,378	4,523,098
1,942	480,403	4,523,098
1,943	480,428	4,523,098
1,944	480,453	4,523,098
1,945	480,478	4,523,098
1,946	480,503	4,523,098
1,947	480,528	4,523,098
1,948	480,553	4,523,098
1,949	480,578	4,523,098
1,950	480,603	4,523,098
1,951	480,628	4,523,097
1,952	480,653	4,523,097
1,953	480,678	4,523,097
1,954	480,703	4,523,097
1,955	480,728	4,523,097
1,956	480,753	4,523,097
1,957	480,778	4,523,097
1,958	480,803	4,523,097
1,959	480,828	4,523,097
1,960	480,853	4,523,097
1,961	480,878	4,523,097
1,962	480,903	4,523,097
1,963	480,928	4,523,097
1,964	480,953	4,523,096
1,965	480,978	4,523,096
1,966	481,003	4,523,094
1,967	481,028	4,523,094
1,968	481,053	4,523,094
1,969	481,078	4,523,094
1,970	481,103	4,523,094
1,971	481,128	4,523,094
1,972	481,153	4,523,095

Corner Number	UTM Easting	UTM Northing
1,973	481,178	4,523,095
1,974	481,203	4,523,095
1,975	481,228	4,523,095
1,976	481,253	4,523,095
1,977	481,278	4,523,096
1,978	481,303	4,523,096
1,979	481,328	4,523,096
1,980	481,353	4,523,096
1,981	481,374	4,523,085
1,982	481,395	4,523,071
1,983	481,416	4,523,058
1,984	481,437	4,523,044
1,985	481,458	4,523,030
1,986	481,479	4,523,016
1,987	481,500	4,523,003
1,988	481,520	4,522,989
1,989	481,541	4,522,975
1,990	481,562	4,522,961
1,991	481,583	4,522,948
1,992	481,604	4,522,934
1,993	481,625	4,522,920
1,994	481,646	4,522,906
1,995	481,667	4,522,893
1,996	481,687	4,522,879
1,997	481,708	4,522,865
1,998	481,729	4,522,851
1,999	481,750	4,522,837
2,000	481,771	4,522,824
2,001	481,792	4,522,810
2,002	481,813	4,522,796
2,003	481,834	4,522,782
2,004	481,854	4,522,769
2,005	481,875	4,522,755
2,006	481,896	4,522,741
2,007	481,917	4,522,727
2,008	481,938	4,522,714
2,009	481,959	4,522,700
2,010	481,980	4,522,686
2,011	482,001	4,522,672
2,012	482,021	4,522,659
2,013	482,042	4,522,645
2,014	482,063	4,522,631

Corner Number	UTM Easting	UTM Northing
2,015	482,084	4,522,617
2,016	482,105	4,522,604
2,017	482,126	4,522,590
2,018	482,147	4,522,576
2,019	482,168	4,522,562
2,020	482,188	4,522,549
2,021	482,209	4,522,535
2,022	482,230	4,522,521
2,023	482,251	4,522,507
2,024	482,272	4,522,494
2,025	482,293	4,522,480
2,026	482,314	4,522,466
2,027	482,335	4,522,452
2,028	482,355	4,522,439
2,029	482,376	4,522,425
2,030	482,397	4,522,411
2,031	482,418	4,522,397
2,032	482,439	4,522,384
2,033	482,460	4,522,370
2,034	482,481	4,522,356
2,035	482,502	4,522,342
2,036	482,522	4,522,329
2,037	482,543	4,522,315
2,038	482,564	4,522,301
2,039	482,585	4,522,287
2,040	482,606	4,522,273
2,041	482,626	4,522,258
2,042	482,645	4,522,243
2,043	482,665	4,522,227
2,044	482,683	4,522,210
2,045	482,702	4,522,194
2,046	482,720	4,522,177
2,047	482,739	4,522,160
2,048	482,757	4,522,143

PLANT BUILDING PARAMETERS FORM

Building ID	UTM E (m)	UTM N (m)	Height (ft)
POX	480,316	4,518,786	90'
	480,348	4,518,786	
	480,348	4,518,726	
	480,317	4,518,726	
	480,317	4,518,765	
	480,284	4,518,765	
	480,284	4,518,793	
	480,316	4,518,793	
	480,316	4,518,786	
BOILER	480,317	4,518,726	38.3'
	480,342	4,518,726	
	480,342	4,518,711	
	480,317	4,518,711	
	480,317	4,518,726	
REFINE	480,228	4,518,757	29.8'
	480,241	4,518,757	
	480,241	4,518,737	
	480,228	4,518,737	
	480,228	4,518,757	
STRIP	480,348	4,518,786	90'
	480,364	4,518,786	
	480,364	4,518,759	
	480,348	4,518,759	
	480,348	4,518,786	
O2ELEC	480,414	4,518,762	12'
	480,418	4,518,762	
	480,418	4,518,752	
	480,414	4,518,752	
	480,414	4,518,762	
O2CNTL	480,423	4,518,751	12'
	480,435	4,518,751	
	480,435	4,518,747	
	480,423	4,518,747	
	480,423	4,518,751	
O2COMP	480,470	4,518,780	12'
	480,470	4,518,768	
	480,462	4,518,768	
	480,462	4,518,780	
	480,470	4,518,780	

Building ID	UTM E (m)	UTM N (m)	Height (ft)
REAGENT	480,340	4,518,829	37'
	480,364	4,518,829	
	480,364	4,518,808	
	480,340	4,518,808	
	480,340	4,518,829	
NEWFILT	480,421	4,518,907	73.6'
	480,437	4,518,907	
	480,437	4,518,851	
	480,421	4,518,851	
	480,421	4,518,907	
FILTPRESS	480,453	4,518,894	73.6'
	480,453	4,518,914	
	480,471	4,518,914	
	480,471	4,518,894	
	480,453	4,518,894	
QUENCH	480,427	4,518,735	21.8'
	480,437	4,518,735	
	480,437	4,518,719	
	480,427	4,518,719	
	480,427	4,518,735	
ADMIN	482,807	4,521,922	12'
	482,829	4,521,922	
	482,829	4,521,907	
	482,858	4,521,907	
	482,858	4,521,867	
	482,845	4,521,867	
	482,845	4,521,876	
	482,829	4,521,876	
	482,829	4,521,859	
	482,807	4,521,859	
	482,807	4,521,922	
LAB	480,215	4,518,797	12'
	480,229	4,518,797	
	480,229	4,518,762	
	480,216	4,518,762	
	480,216	4,518,757	
	480,208	4,518,757	
	480,208	4,518,775	
	480,215	4,518,775	
	480,215	4,518,797	

Building ID	UTM E (m)	UTM N (m)	Height (ft)
IE	480,191	4,518,832	12'
	480,234	4,518,832	
	480,234	4,518,822	
	480,191	4,518,822	
	480,191	4,518,832	
CIC	480,221	4,518,702	45'
	480,221	4,518,712	
	480,216	4,518,712	
	480,216	4,518,737	
	480,241	4,518,737	
	480,241	4,518,702	
	480,221	4,518,702	
MAINT	480,284	4,518,832	25'
	480,303	4,518,832	
	480,303	4,518,801	
	480,284	4,518,801	
	480,284	4,518,832	
TRUCK_TA	482,703	4,521,839	40'
	482,737	4,521,839	
	482,737	4,521,829	
	482,761	4,521,829	
	482,761	4,521,820	
	482,785	4,521,820	
	482,785	4,521,786	
	482,703	4,521,786	
	482,703	4,521,839	
FLOT	480,406	4,518,839	12'
	480,473	4,518,839	
	480,473	4,518,816	
	480,406	4,518,816	
	480,406	4,518,839	
LSILO	481,890	4,520,450	37'
	481,891	4,520,450	
	481,891	4,520,449	
	481,892	4,520,448	
	481,891	4,520,447	
	481,891	4,520,447	
	481,890	4,520,446	
	481,889	4,520,447	
	481,888	4,520,447	
	481,888	4,520,448	
	481,888	4,520,449	
	481,889	4,520,450	
	481,890	4,520,450	

Building ID	UTM E (m)	UTM N (m)	Height (ft)
ALSILO2	480,360	4,518,838	72'
	480,362	4,518,837	
	480,363	4,518,836	
	480,364	4,518,834	
	480,363	4,518,832	
	480,362	4,518,831	
	480,360	4,518,831	
	480,358	4,518,831	
	480,357	4,518,832	
	480,357	4,518,834	
	480,357	4,518,836	
	480,358	4,518,837	
	480,360	4,518,838	
LPLSILO	479,966	4,518,910	37'
	479,967	4,518,910	
	479,968	4,518,909	
	479,968	4,518,908	
	479,968	4,518,907	
	479,967	4,518,906	
	479,966	4,518,906	
	479,965	4,518,906	
	479,964	4,518,907	
	479,964	4,518,908	
	479,964	4,518,909	
	479,965	4,518,910	
	479,966	4,518,910	
ANSILO1	480,281	4,519,681	22'
	480,282	4,519,681	
	480,283	4,519,680	
	480,283	4,519,679	
	480,283	4,519,678	
	480,282	4,519,677	
	480,281	4,519,677	
	480,280	4,519,677	
	480,279	4,519,678	
	480,279	4,519,679	
	480,279	4,519,680	
	480,280	4,519,681	
	480,281	4,519,681	

Building ID	UTM E (m)	UTM N (m)	Height (ft)
ANSILO2	480,282	4,519,690	22'
	480,283	4,519,690	
	480,284	4,519,689	
	480,284	4,519,688	
	480,284	4,519,687	
	480,283	4,519,686	
	480,282	4,519,686	
	480,281	4,519,686	
	480,280	4,519,687	
	480,280	4,519,688	
	480,280	4,519,689	
	480,281	4,519,690	
	480,282	4,519,690	
ALSILO4	480,369	4,518,832	67'
	480,370	4,518,831	
	480,371	4,518,830	
	480,371	4,518,829	
	480,371	4,518,828	
	480,370	4,518,827	
	480,369	4,518,827	
	480,368	4,518,827	
	480,367	4,518,828	
	480,367	4,518,829	
	480,367	4,518,830	
	480,368	4,518,831	
	480,369	4,518,832	
ACID1	480,415	4,518,701	20'
	480,417	4,518,700	
	480,419	4,518,698	
	480,420	4,518,696	
	480,419	4,518,694	
	480,417	4,518,692	
	480,415	4,518,692	
	480,413	4,518,692	
	480,411	4,518,694	
	480,410	4,518,696	
	480,411	4,518,698	
	480,413	4,518,700	
	480,415	4,518,701	

Building ID	UTM E (m)	UTM N (m)	Height (ft)
ACID2	480,377	4,518,697	20'
	480,379	4,518,697	
	480,381	4,518,695	
	480,381	4,518,693	
	480,381	4,518,690	
	480,379	4,518,689	
	480,377	4,518,688	
	480,374	4,518,689	
	480,373	4,518,690	
	480,372	4,518,693	
	480,373	4,518,695	
	480,374	4,518,697	
	480,377	4,518,697	
LIMETRL	479,967	4,518,920	37'
	479,968	4,518,920	
	479,969	4,518,919	
	479,969	4,518,918	
	479,969	4,518,917	
	479,968	4,518,916	
	479,967	4,518,916	
	479,966	4,518,916	
	479,965	4,518,917	
	479,965	4,518,918	
	479,965	4,518,919	
	479,966	4,518,920	
	479,967	4,518,920	

APPLICATION CERTIFICATION DOCUMENT

(With Required Attachments)

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

- ☒ Cover Page
- ☒ General Company Information Form
- ☐ Compliance Plan – **N/A**
- ☒ Industrial Process Application Form(s)
- ☐ Combustion Equipment Application Form(s) – **N/A**
- ☐ Storage Silo Application Form(s) – **N/A**
- ☐ Liquid Storage Tank Application Form(s) – **N/A**
- ☐ Manufacturer's Guarantee – **N/A**
- ☒ Facility-Wide Potential to Emit Table
- ☐ Revision Table – **N/A**
- ☒ Surface Area Disturbance Form
- ☒ Plant Boundary Coordinates Form
- ☒ Plant Building Parameters Form
- ☒ Detailed Emission Calculations (for all emission units including IA units)
- ☐ Source Testing Data (if referenced in calculations) – **N/A**
- ☒ Process Narrative (revision applications must include a description of the revision)
- ☒ 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 Report and Electronic Input Files) (NAC 445B.310, NAC 445B.311)
- ☐ Manufacturer's Guarantee *if applicable* – **N/A**
- ☐ Equipment Specifications *if applicable* – **N/A**
- ☐ TANKs Modeling Output *if applicable* – **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

Mark Miller, VP, Environmental & Permitting

Print or Type Name and Title

03/05/2026

Date

Appendix 1: Narrative, Maps, and Process Flow Diagrams

NARRATIVE DESCRIPTION

Introduction

This narrative description is being submitted by Goldcorp DEE LLC (Goldcorp) as part of the application for a new Class I Air Quality Operating Permit for the restart of the autoclave circuit and refinery at the Lone Tree Mine. The Lone Tree Mine will be a minor source (i.e., facility-wide emissions less than 100 tons per year for all criteria pollutants), however, the Class I Air Quality Operating Permit will include the emission units subject to 40 CFR Part 63, Subpart EEEEEEE (Subpart 7E). In addition, the autoclave and refinery sources will require a Mercury Operating Permit to Construct (MOPTC). All other emission units will be permitted under Class II Air Quality Operating Permit No. AP1041-3575.02 (FIN A0385).

Facility Overview

The Lone Tree Mine is located approximately 32 miles southeast of Winnemucca and 88 miles west of Elko, Nevada. The facility is accessed from Winnemucca by traveling approximately 32 miles east on U.S. Interstate 80, taking Exit 212, then traveling northwest on the Lone Tree Mine access road for approximately 0.75 miles. The Lone Tree Mine vicinity map and area map are provided as Figure 1 and Figure 2, respectively.

The principal operation at the Lone Tree Mine constitutes a metal mine as defined by the two-digit SIC code 10 for the primary metal industry. Because the metal recovered is gold, the facility can be further classified by SIC code 1041, defined as "establishments primarily engaged in mining gold ores." The Lone Tree Mine is classified by NAICS code 212220 for "gold ore mining."

Activity Descriptions

The Lone Tree Mine consists of an existing open-pit gold mine with heap leach facilities. Goldcorp is proposing to add wet milling, autoclaving, and gold refining facilities. The new facilities are designed to process ore from the Lone Tree Mine open pit as well as from other gold mines.

Descriptions of the mining, processing, and supporting activities that make up the Lone Tree Mine are provided below. The facility-wide process flow diagram is provided as Figure 3.

Ore Extraction

The mining process uses standard open-pit mining techniques of drilling, blasting, loading, and hauling of ore and waste. Waste rock is removed from the pit by blasting with ammonium nitrate and fuel oil explosive (ANFO), loading by front-end loaders or shovels into haul trucks, and hauling to a waste rock disposal area. Gold ore is then mined by similar mining methods: ore is drilled, blasted with ANFO, loaded into haul trucks, and then hauled to the heap leach

pad or to a stockpile for wet milling. Pollutants emitted from open-pit mining are fugitive dust and combustion products from blasting. These emissions are fugitive as they cannot reasonably pass through a stack or vent. The ammonium nitrate prill used for blasting is stored onsite in storage silos. The ammonium nitrate prill storage silos have the potential to emit particulate emissions from silo loading and unloading. The prill silos each have a capacity of less than 125 tons and are designated as insignificant activities per the Director's Determination dated October 26, 2016, and NAC 445B.288.4.

Fugitive dust emissions from haul roads are controlled by watering or application of chemical dust suppressants. When practical, fugitive dust emissions from wind erosion of exposed areas are controlled by watering or re-vegetation.

Ore Handling and Milling

In the wet mill circuit, ore is delivered by front-end loader to grizzly-equipped hoppers. From the hoppers, ore is transferred to underground ore reclaim feeders that feed the ore to the SAG mill feed conveyor. In the wet SAG mill, steel grinding media grinds the ore into smaller-sized material. Discharge from the SAG mill passes through a wet screen, from which oversized material is conveyed back into the SAG mill for further grinding. The undersized material from the screen is pumped as a wet slurry to a cyclone cluster followed by a ball mill for further wet grinding prior to being pumped to the thickener.

Particulate emissions from the loading of the grizzly-equipped hoppers are controlled by best operating practices. Particulate emissions associated with the reclaim feeders and SAG feed conveyor transfer are controlled by enclosures. The SAG and ball mills are wet mills where saturated material is required by the equipment and are therefore not considered emission units. The ore transfers to the SAG mill are subject to 40 CFR Part 60, Subpart LL.

Autoclave Processing

Ground ore slurry is processed through a thickener where liquid flocculant from the flocculent batch system is added to settle the solids and increase the slurry density. From the thickener, the slurry is pumped to the slurry storage acidulation tanks where sulfuric acid is added from storage tanks to pre-treat the ore before transferring it to the low temperature and then high temperature slurry heaters. Steam flashed from the high-pressure and the low-pressure flash vessels is ducted to the slurry heaters, allowing for the preheating of the slurry prior to being fed into the autoclave. In the autoclave, steam supplied by a propane-fired boiler is added along with oxygen to oxidize sulfide minerals in the ore, allowing gold to be liberated for subsequent recovery. Autoclave discharge slurry is routed through the flash vessels and then a slurry cooling system to reduce pressure and temperature, while the autoclave circuit exhaust is quenched before passing through a venturi scrubber and carbon bed. Excess heat from the

slurry cooling and exhaust quenching process is dissipated through one of several cooling towers.

The autoclave circuit also includes emergency pressure relief vents for the autoclave and high-pressure flash vessel, and a release vent following the quench vessel. The pressure relief vents and release vent are ducted through a shared emergency relief vent water vessel before release to the atmosphere. The pressure relief vents from the autoclave and high-pressure flash vessel will only be used in emergency situations, however, Goldcorp is proposing to allow the limited use of the release vent from the quench vessel. The release vent use would be limited to 100 hours per year and would allow for maintenance, including carbon change out, of the venturi scrubber or carbon bed. In this situation, exhaust would pass through the quench vessel and emergency relief vent water vessel prior to release to the atmosphere.

The autoclave boiler is a source of propane combustion emissions and is controlled by best operating practices. The boiler is used to heat the ore in the autoclave to initiate the sulfur oxidation reaction. Based on this use, it meets the definition of "process heater" per 40 CFR 60.41c, and is therefore not subject to 40 CFR Part 60, Subpart Dc. The autoclave is a source of particulate, SO_2, H_2S, and mercury emissions and is controlled by a venturi scrubber and carbon bed for particulate and mercury control, respectively. The autoclave is subject to 40 CFR Part 63, Subpart EEEEEEE. The sulfuric acid storage tanks, flocculant batching systems, and cooling towers are sources of particulate matter controlled by best operating practices and, due to the small potential to emit from these sources, a request for designation as insignificant activities per NAC 445B.288.4 is being submitted with this application.

Leaching and Carbon Adsorption

After being processed in the autoclave, lime is added to the slurry to adjust pH before being transferred to the CIL circuit. Lime is received and handled through lime silos, with particulate emissions from silo loading controlled by vent filters. Lime silo discharge to the lime slakers is controlled by best operating practices.

In the CIL circuit, sodium cyanide is used to leach gold from the ore, forming a gold-cyanide complex in solution that is then adsorbed onto activated carbon in a series of CIL tanks. The sodium cyanide solution is stored in cyanide storage tanks. Ore slurry, activated carbon, and sodium cyanide are introduced into the CIL tanks, where the mixture is agitated and aspirated with air. Within the CIL tanks, screens separate the carbon from the slurry. The loaded carbon (carbon with gold) is sent to the carbon stripping process. The spent slurry exiting the CIL tanks is thickened and then sent through a filter press to remove additional water. The resulting tailings filter cake is conveyed to a stockpile to be rehandled using a loader to the tailings storage area. Particulate emissions from the tailings filter press conveyor transfers are controlled by material moisture content (comparable to transfers after a wet trommel). The CIL tanks are potential sources of fugitive hydrogen cyanide (HCN) emissions.

Carbon Stripping and Electrowinning

After the carbon has been loaded with gold in the CIL circuit, the gold is removed or "stripped" from the carbon in the strip circuit. This is accomplished by first washing the carbon with nitric acid in the acid wash vessel and then stripping the carbon with a hot sodium cyanide solution in the carbon strip vessel. The acid wash vessel and nitric acid tank are not expected to emit any regulated air pollutant or HAP. The heat for the strip solution is provided by an electric heater. From the strip vessel, the gold-bearing solution (pregnant solution) is transferred to the pregnant solution tank and then to the electrowinning (EW) circuit.

The EW circuit, consisting of three cells, is used to plate the gold, carried by the pregnant solution, onto cathodes via electrolysis. The solution leaving the EW circuit (barren solution) is returned to the barren solution tank for reuse in the process. The precious metal bearing material recovered from the EW circuit is transferred to the retorting and melting process. Mercury emissions from the EW circuit and associated solution tanks are controlled by carbon beds. The EW circuit and pregnant solution tank are subject to 40 CFR Part 63, Subpart EEEEEEE.

Retorting and Melting

The precious metal bearing material from the electrowinning circuit is first retorted to remove mercury and then refined in the melt furnace. The retort removes mercury by heating the material until the mercury vaporizes. The mercury vapor is cooled, condensed, and collected as a liquid, and gases exiting the retort pass through a carbon bed to remove residual mercury prior to release to the atmosphere.

After retorting, the precious metal bearing material is transferred to the melt furnace, where it is heated with flux to separate impurities from the gold and produce dore. Particulate and mercury emissions from the melt furnace are controlled by a baghouse and carbon bed prior to release to the atmosphere.

The retort and melt furnace are subject to 40 CFR Part 63, Subpart EEEEEEE.

Carbon Regeneration

After being stripped, the carbon used in the gold recovery process gradually loses its ability to effectively adsorb gold and requires regeneration. To regenerate the carbon, it is heated in an electric carbon regeneration kiln to remove impurities. The regenerated carbon is then screened to remove fines and reused in the CIL circuit. Mercury emissions from the kiln are controlled by a carbon bed. The carbon regeneration kiln is subject to 40 CFR Part 63, Subpart EEEEEEE.

Ancillary Equipment

Fuel storage and utility systems support processing and refining operations at the Lone Tree Mine. Diesel fuel is stored in multiple aboveground tanks, each with a capacity of less than 40,000 gallons and considered insignificant activities pursuant to NAC 445B.288.2(d). Gasoline is stored in an aboveground storage tank located in the administration and truck shop area and is a potential source of VOC emissions. The gasoline storage tank is subject to 40 CFR Part 63, Subpart CCCCCC.

Emergency power is provided by diesel- and propane-fired generators located throughout the facility. An emergency diesel-fired fire pump is also located onsite. The diesel-fired emergency generators and fire pump engines are subject to 40 CFR Part 60, Subpart IIII and/or 40 CFR Part 63, Subpart ZZZZ, while the emergency propane-fired generator is subject to 40 CFR Part 60, Subpart JJJJ and 40 CFR Part 63, Subpart ZZZZ.

An onsite laboratory supports operations by preparing and analyzing ore and waste rock samples. The sample preparation equipment includes splitters, crushers, screens, and pulverizers. Particulate emissions from the equipment are ducted through a baghouse, however, due to the small uncontrolled potential to emit for this equipment, these sources have been designated insignificant activities per NAC 445B.288.4.

In addition to the sources described above, the facility also has a number of propane vaporizers and propane-fired building heaters, which are insignificant activities per NAC 445B.288.2(e)(1).

Figure 1. Vicinity Map

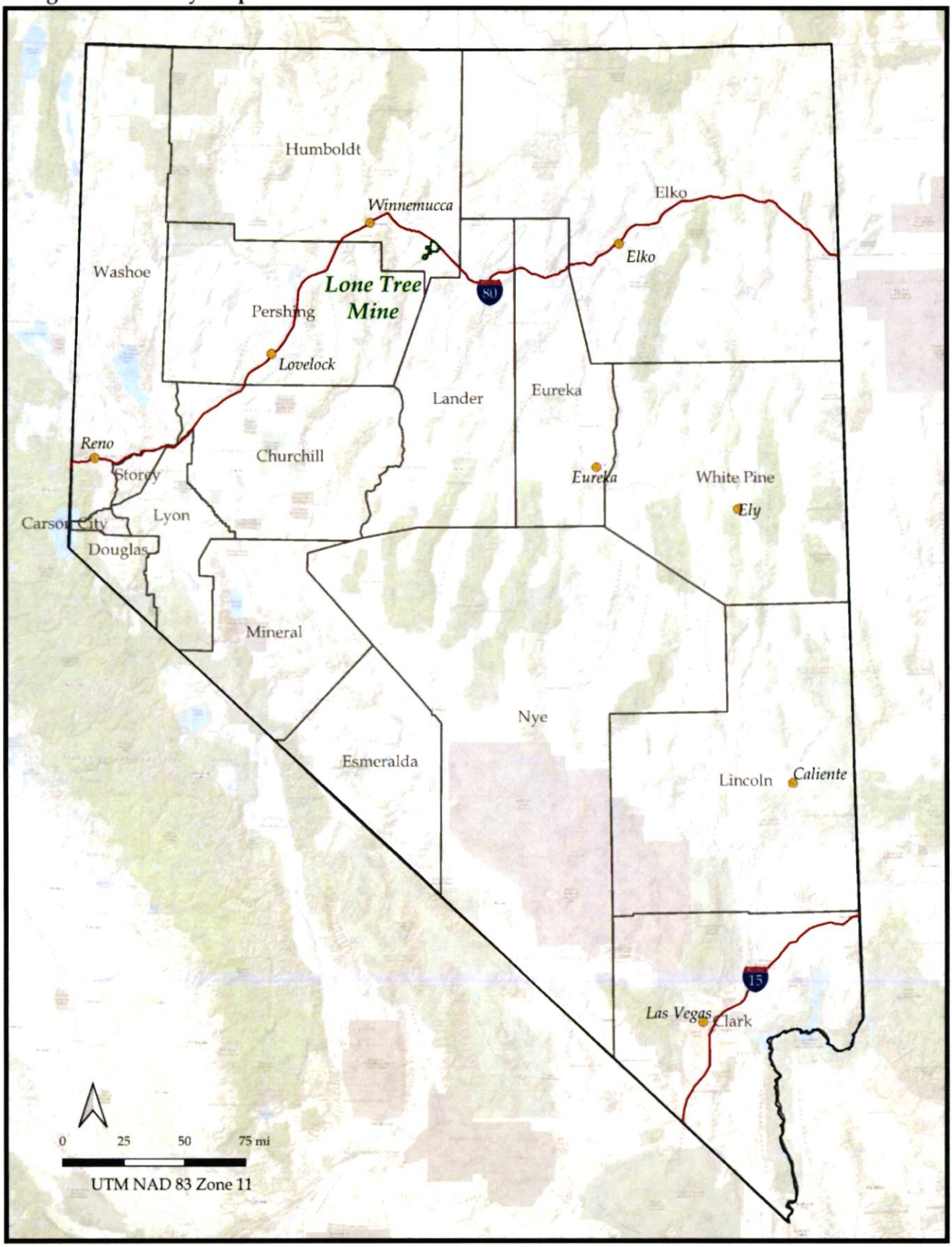


Figure 2. Area Map

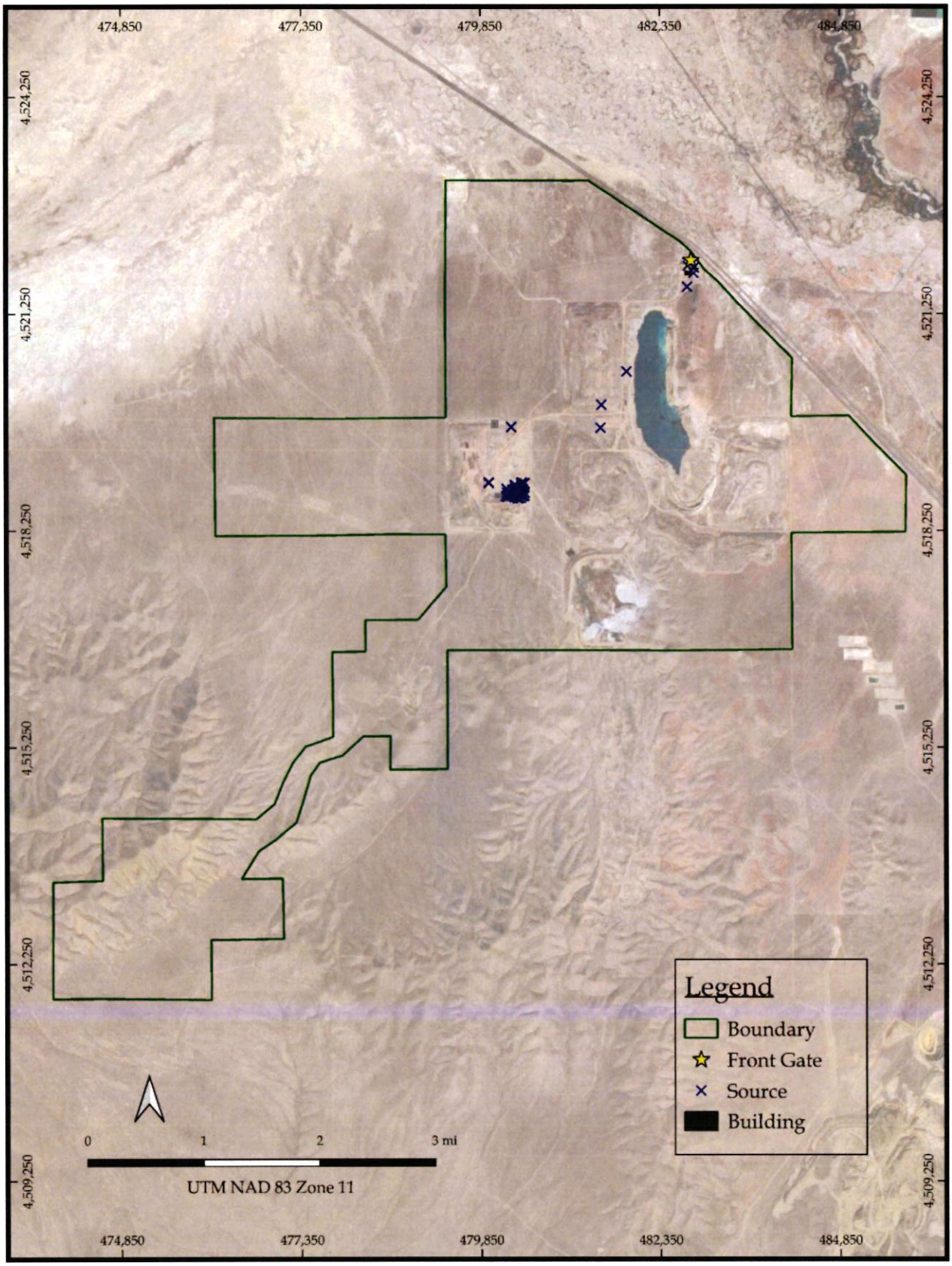
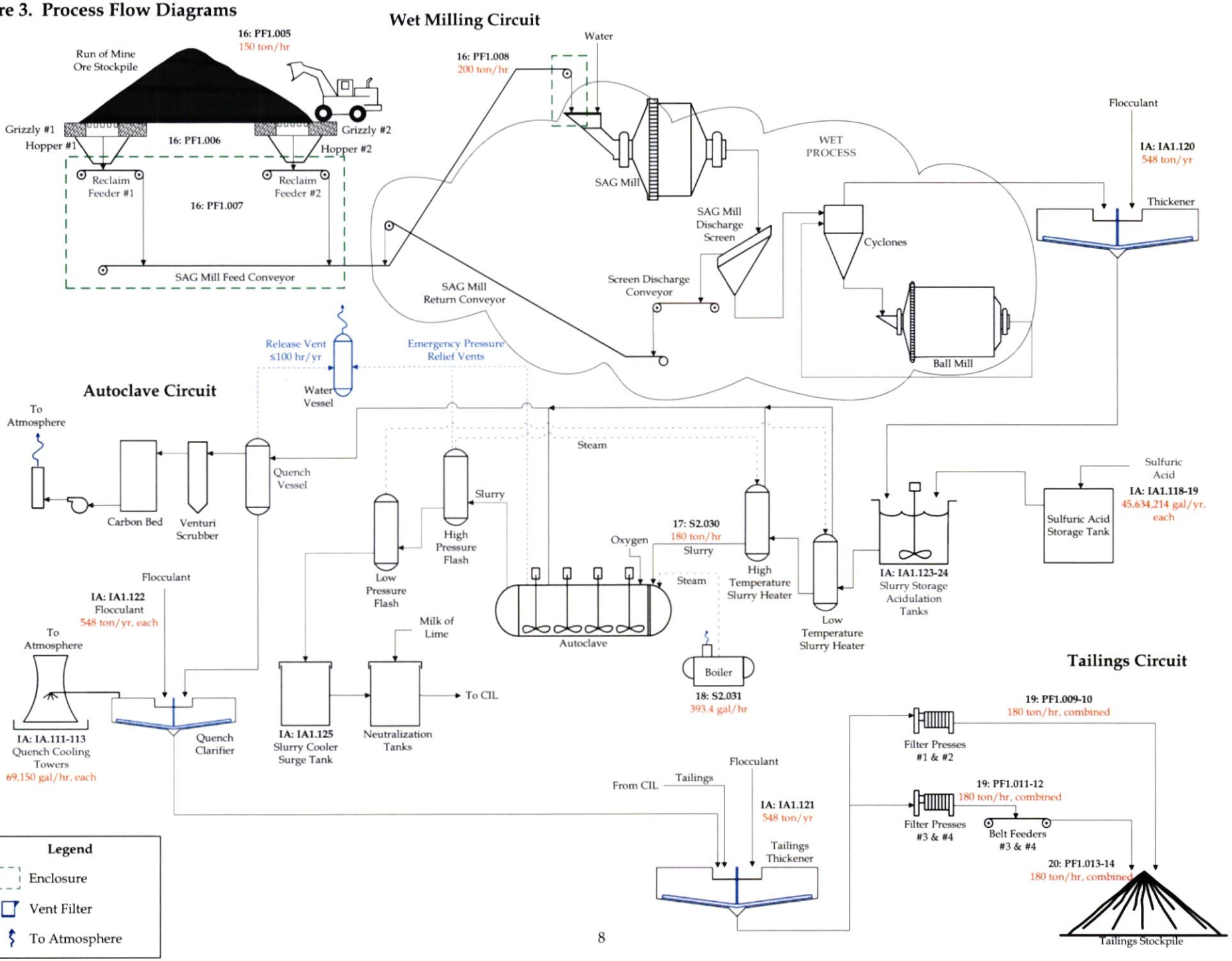
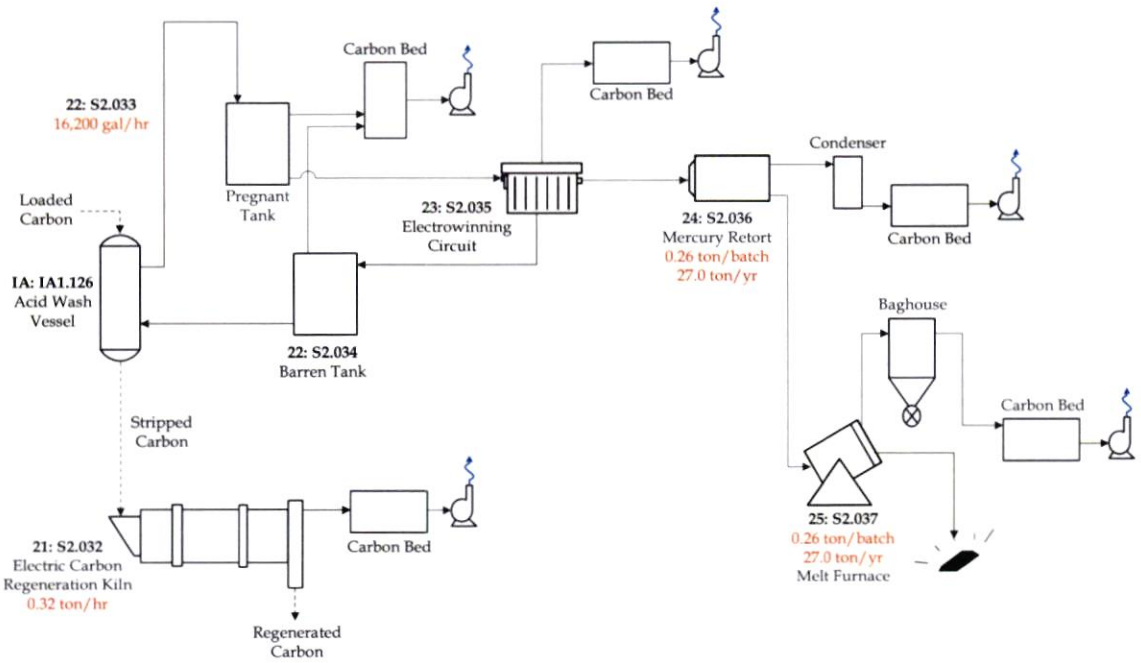
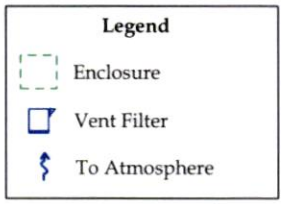


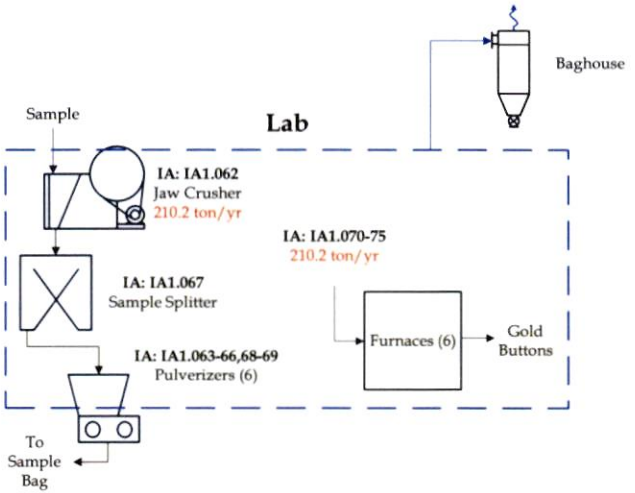
Figure 3. Process Flow Diagrams



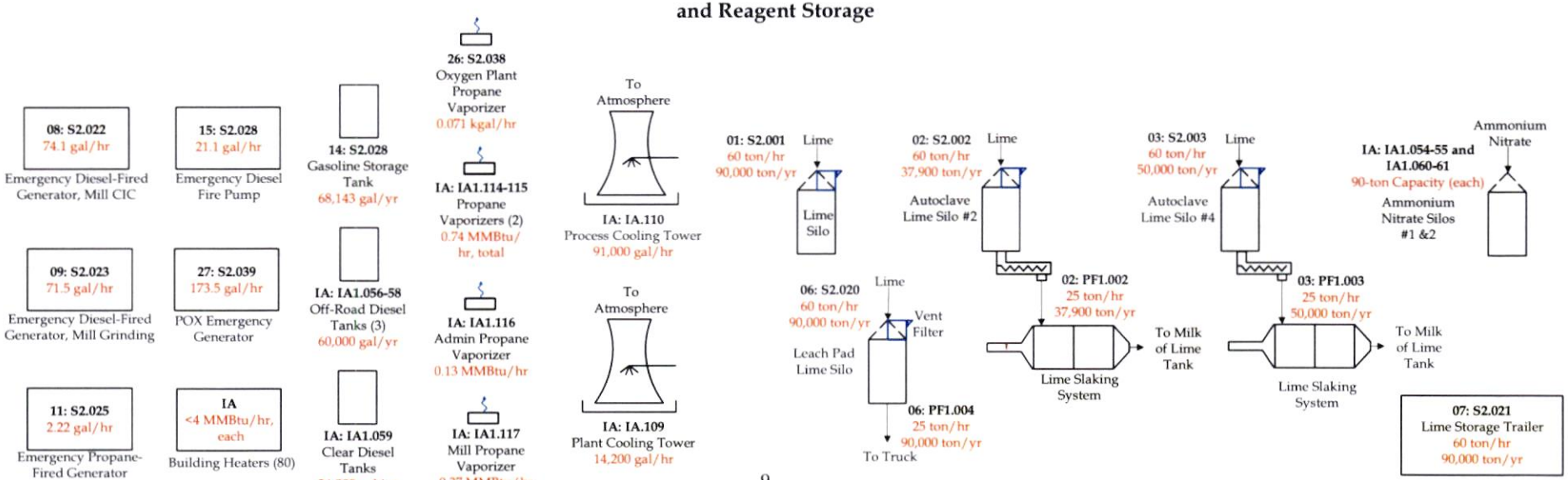
Refinery



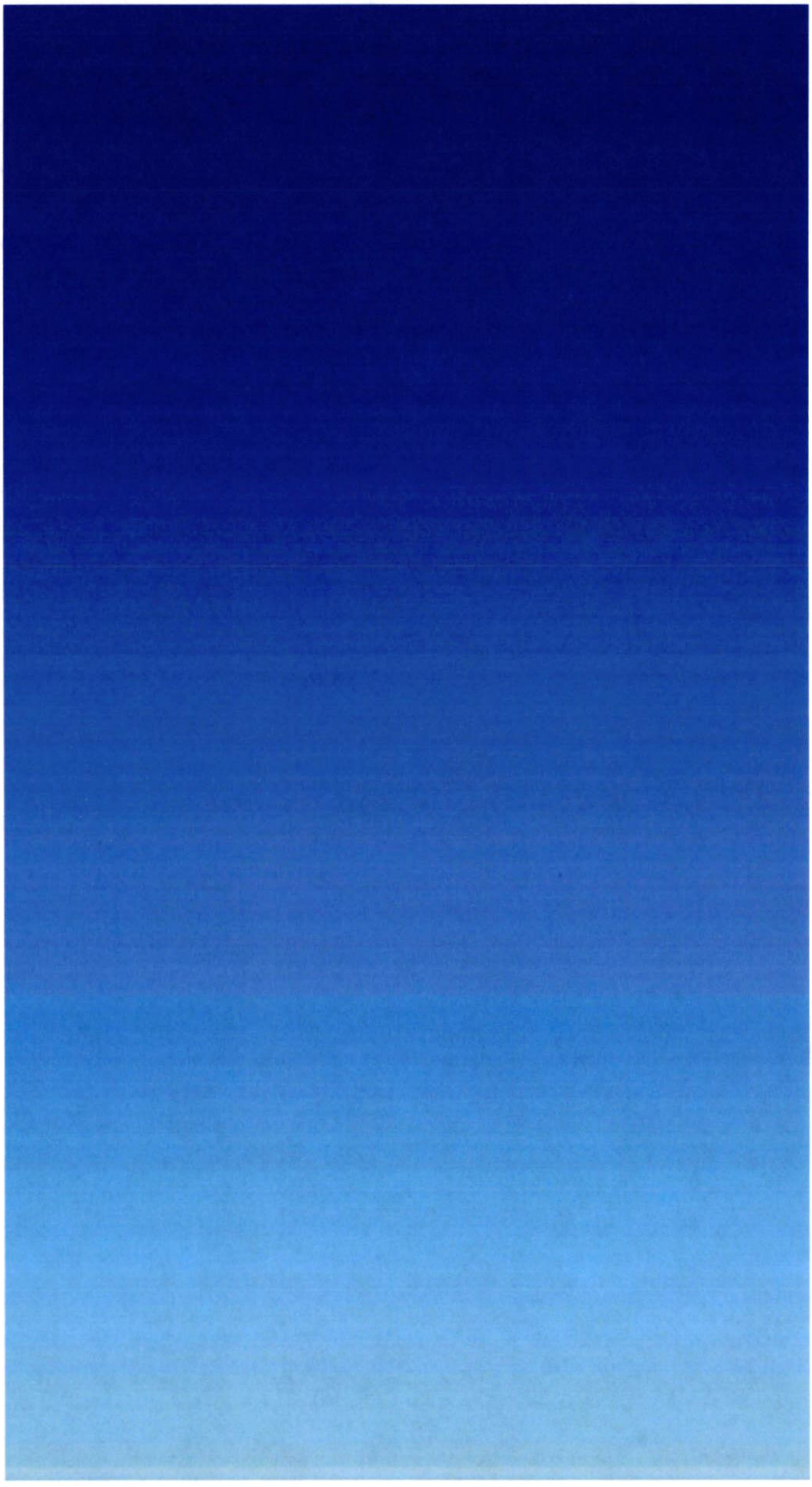




Miscellaneous Sources and Reagent Storage



Appendix 2: Environmental Evaluation



AIR SCIENCES INC.

DENVER • PORTLAND • LOS ANGELES

Air Quality Impact Analysis

Lone Tree Mine

PREPARED FOR:
GOLDCORP DEE LLC

PROJECT NO. 430-1-1
FEBRUARY 2026

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Appendix A – Model Input Parameters

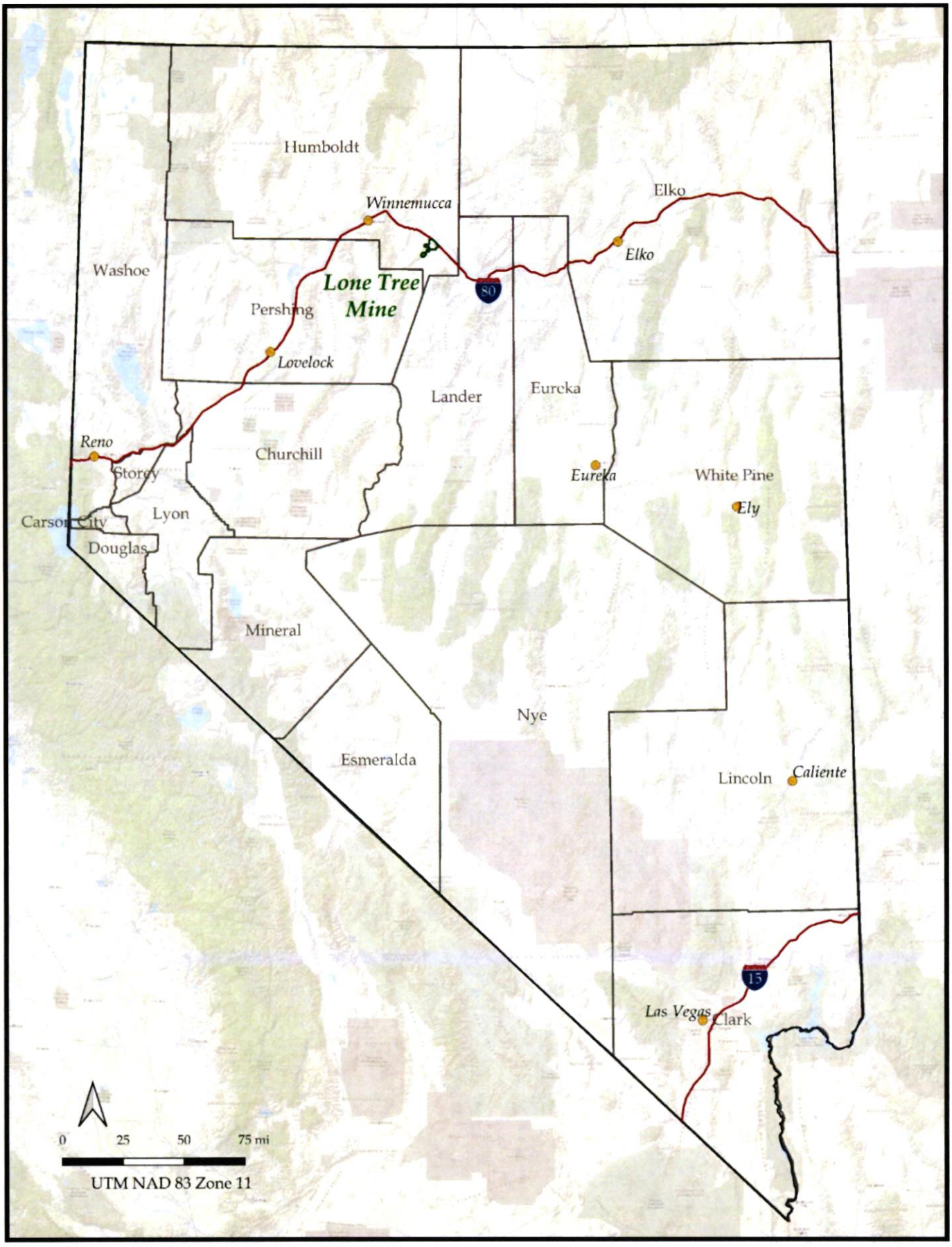
1.0 INTRODUCTION

Goldcorp DEE LLC is providing this air quality impact analysis to support the application for a new Class I Air Quality Operating Permit and revision application for Class II Air Quality Operating Permit No. AP1041-3575.02 for the Lone Tree Mine (Lone Tree). With these applications, Goldcorp is requesting several changes to support future operations, which will include the restart of the autoclave and the construction and operation of a gold refinery, wet milling circuit, boiler, tailings dry stack circuit, and emergency generators, as well as several insignificant activities.

Lone Tree is located approximately 5.5 miles northwest of Valmy, Nevada, off Interstate 80, in Humboldt county as shown in Figure 1. Lone Tree is in the Clovers Area and Pumpernickel Valley Hydrographic Areas (HA-64 and HA-65, respectively). The Pumpernickel Valley Hydrographic Area has not been triggered for Prevention of Significant Deterioration (PSD) baseline for any pollutant, whereas the minor source PSD baseline was triggered for the Clovers Area Hydrographic Area for PM_{10} and SO_2 on March 2, 1977.

To determine the air quality impacts from operation of the Lone Tree Mine, an American Meteorological Society/Environmental Protection Agency Regulatory Model (AERMOD) air dispersion modeling analysis was conducted. This report presents the methods that were used to evaluate the air quality impacts from the Lone Tree Mine sources 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 methodology, 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. Project Location Map



2.0 AIR QUALITY ANALYSIS

Air dispersion models are a collection of mathematical algorithms packaged into a computer program to simulate the atmospheric dispersion of an air pollutant. Air dispersion models typically require source data (emissions, location, physical characteristics, etc.) and meteorological data (wind speed and direction, temperature, mixing height, etc.) to predict pollutant concentrations at downwind receptor locations that result from a source's emissions. These air dispersion models are widely used to assess changes in the ambient air resulting from a project's air emissions and to demonstrate compliance with applicable ambient air quality standards.

This section presents the air quality analysis methodology, data sets, and modeling techniques used to estimate the changes in ambient air quality levels that could result from the Lone Tree Mine air emissions. The results of the modeling analysis, including a comparison with the applicable air quality standards, are also discussed in this section.

2.1 Model Selection

This modeling analysis was conducted using the most recent version of the AERMOD modeling system (24142). 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) on the 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).

2.2 Modeled Sources

The air pollution sources at the Lone Tree Mine included in this air quality impact analysis consist of the following source categories:

- Permitted sources (material handling, autoclave, boiler, refinery, silos, generators, etc.)
- Insignificant sources (prill silos, laboratory, building heaters, cooling towers, etc.)

2.3 Air Pollutants

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

- Carbon monoxide (CO): 8-hour and 1-hour averaging periods
- Nitrogen dioxide (NO_2): Annual and 1-hour 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 (PM_{10}): 24-hour averaging period

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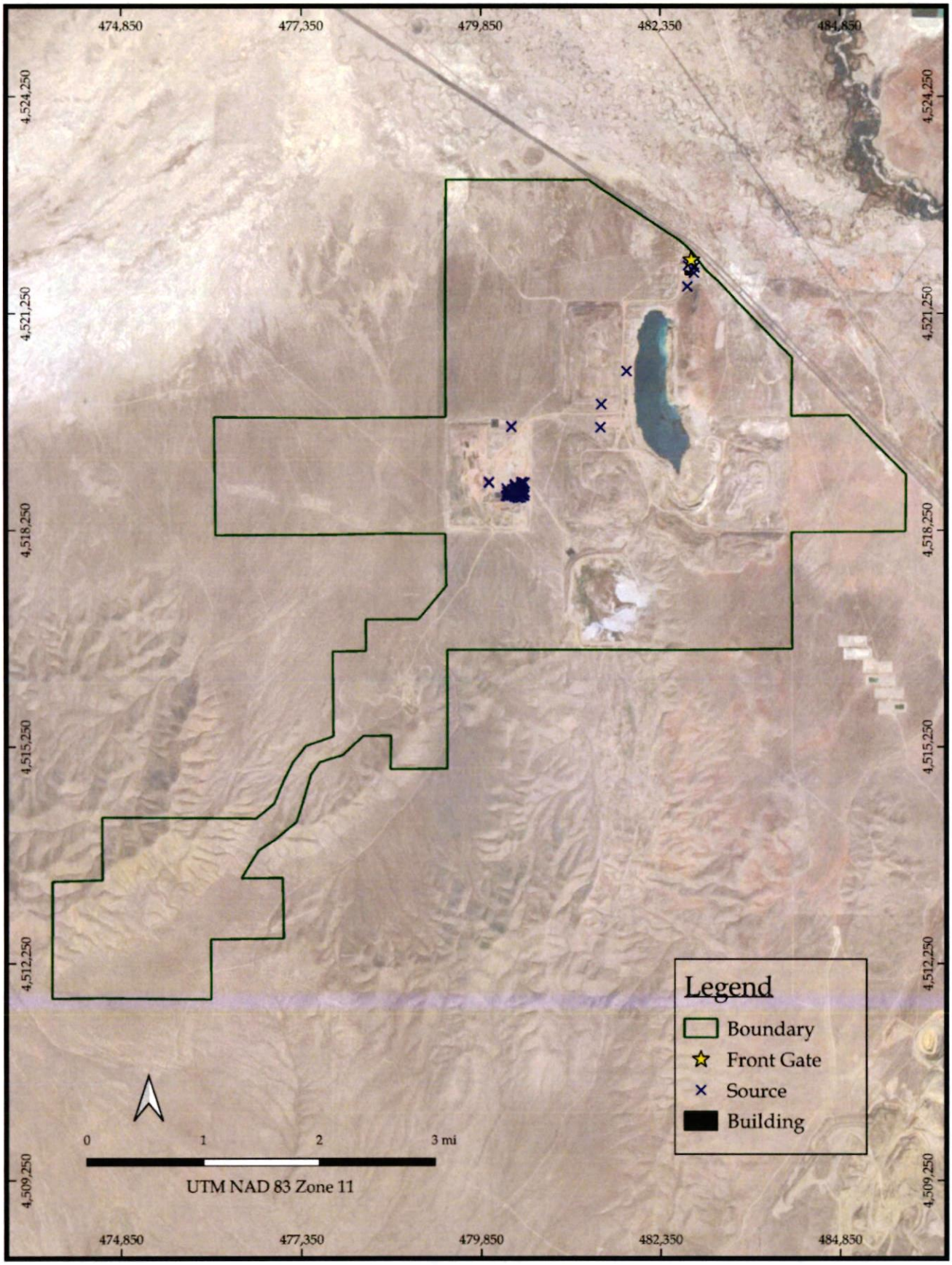
[1] EPA. 2004. *AERMOD: Description of Model Formulation.* EPA-454/R-03-004. September 2004.

- Sulfur dioxide (SO_2): Annual, 24-hour, 3-hour, and 1-hour averaging periods
- Hydrogen Sulfide (H_2S): 1-hour averaging period

2.4 Emissions and Source Characterization

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 Appendix A. All emission sources at the Lone Tree Mine were modeled as either POINT, POINTCAP, or VOLUME sources for this analysis. The model input parameters for each source are presented in Appendix A. Sources with exhaust stacks, such as the autoclave, boiler, and vent-filter-controlled silos, were modeled as POINT or POINTCAP sources, as appropriate. Process fugitive sources, such as material transfers, were modeled as VOLUME sources. A plot plan showing the building and source layout is provided in Figure 2.

Figure 2. Plot Plan



2.5 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).

2.6 Building Downwash

The effects of building-induced downwash are incorporated into this modeling analysis. 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 (BPIP-PRIME version 04274).

2.7 Receptors

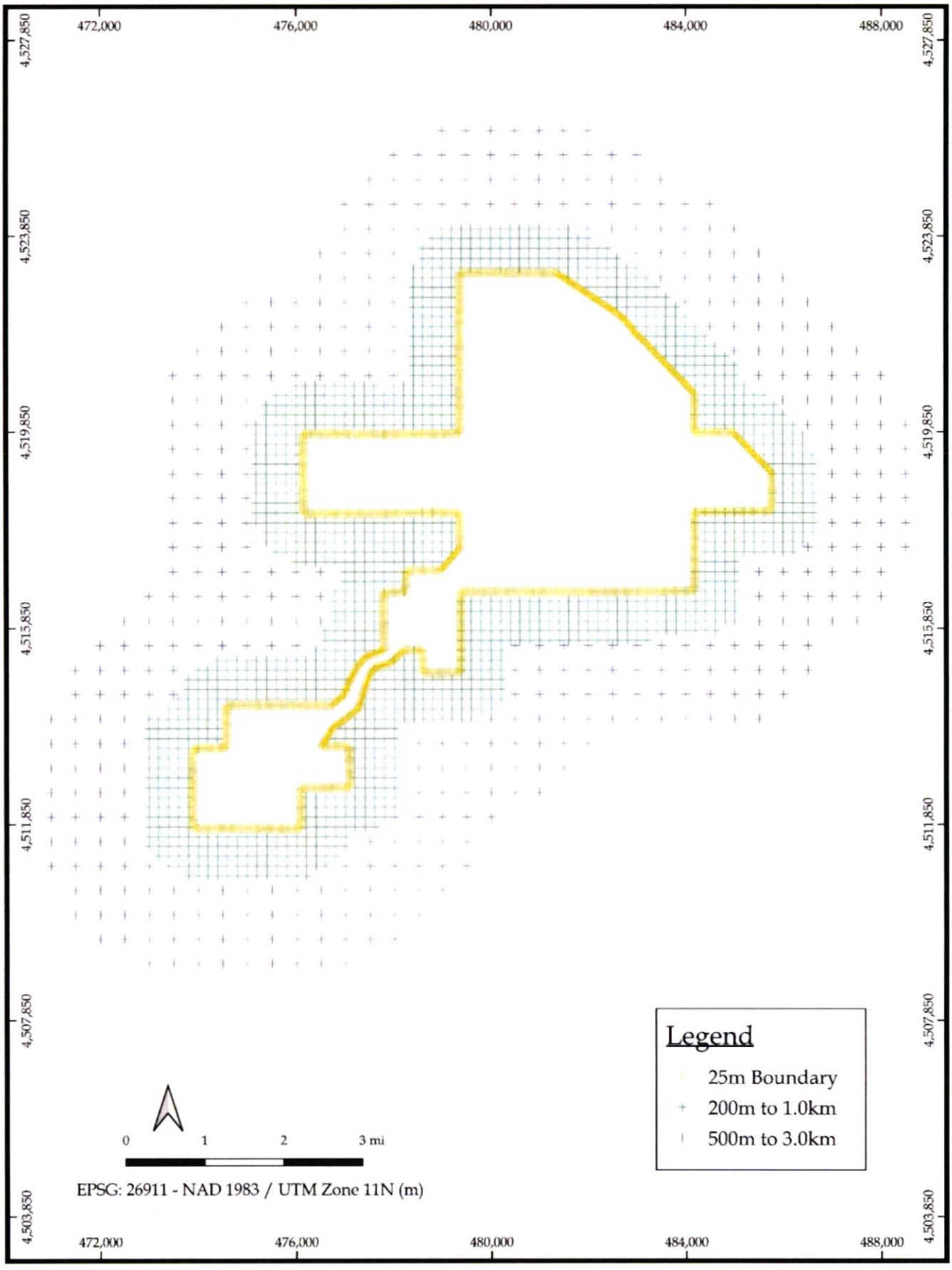
A series of the following nested receptor grids was used to assess ground-level impacts from the Lone Tree Mine air emissions:

- Near-field receptors at 200-meter spacing, out to 1.0 km from the modeling boundary
- Far-field receptors at 500-meter spacing, out to 3.0 km from the modeling boundary

In addition, receptors at 25-meter spacing were included along the modeling boundary. This modeling boundary (ambient air boundary) delineates where public access is restricted and generally 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 ambient air boundary were not modeled. The modeled receptors are shown in Figure 3.

All receptors were processed with the AERMOD terrain preprocessor AERMAP (version 24142) to generate receptor terrain elevations and hill height values using 1/3-Arc-Second National Elevation Dataset (NED) elevation data obtained from the National Map Seamless Server (www.mrlc.gov) in a U.S. Geological Survey GeoTIFF file format that is compatible with AERMAP.

Figure 3. Modeled Receptors



2.8 Meteorological Data

AERMOD requires the input of hourly meteorological data to estimate pollutant concentrations in the 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 was conducted using two years (2016 and 2018) of surface meteorological data from Valmy, Nevada, combined with 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 January 9, 2026. These files were processed by NDEP-BAQP using version (24142) of the AERMOD meteorological preprocessor AERMET, including adjusted u* (ADJ_U*) processing.

2.9 Background Concentrations

Monitored pollutant concentrations, also known as background concentrations, are considered to be representative of prevailing air pollution from the existing sources in the region. These background concentrations are added to the modeled ambient impacts from project emissions to estimate the total ambient concentrations at the modeled receptor locations.

Table 1 provides the NDEP default background concentrations (in units of micrograms per cubic meter, or $\mu g/m^3$) for air quality impact analyses for projects located in rural areas in Nevada.

Table 1. NDEP Default Background Concentrations for Rural Locations

Pollutant	Averaging Period	Background Concentration ($\mu g/m^3$)
CO	8-hour	0
	1-hour	0
NO_2	Annual	0
	1-hour	0
$PM_{2.5}$	Annual	2.3
	24-hour	8.0
PM_{10}	24-hour	10.2
SO_2	Annual	0
	24-hour	0
	3-hour	0
	1-hour	0
H_2S	1-hour	0

The $PM_{2.5}$ and PM_{10} background concentrations shown in Table 1 are from the Jarbidge Wilderness and Great Basin National Park (Lehman Caves) monitoring stations. These values are the default, state-wide

values recommended by the NDEP for unmonitored rural areas. The NDEP also recommends using zero background concentration for CO, NO_2, and SO_2 for a rural site like the Lone Tree Mine, due to the low ambient concentrations generally associated with remote, rural areas for these pollutants.[2] The state ambient air quality standard for H_2S does not include naturally occurring background concentrations and there are no anthropogenic sources of H_2S in the vicinity of the Project.

2.10 Ambient Air Quality Standards

Ambient air quality standards are maximum concentrations of pollutants in ambient air that are considered protective of the public health. These standards are established by environmental regulatory authorities 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, in units of parts per million (ppm) and $\mu g/m^3$, are presented in Table 2.

Table 2. NvAAQS for Compliance Demonstration

Pollutant	Averaging Period	NvAAQS (ppm)	NvAAQS ($\mu g/m^3$)	Form of NvAAQS Standard for Modeling
CO	8-hour	9	10,500	Not to be exceeded (high-first-high concentration)
	1-hour	35	40,500	
NO_2	Annual	0.053	100	Annual mean
	1-hour	0.1	188	98th percentile of 1-hour daily maximum concentrations (high-eighth-high concentration) [a]
$PM_{2.5}$	Annual	N/A	12	Annual mean [a]
	24-hour	N/A	35	98th percentile (high-eighth-high concentration) [a]
PM_{10}	24-hour	N/A	150	Not to be exceeded (high-first-high concentration)
SO_2	Annual	0.030	80	Annual mean
	24-hour	0.14	365	Not to be exceeded (high-first-high concentration)
	3-hour	0.5	1,300	Not to be exceeded (high-first-high concentration)
	1-hour	0.075	196	99th percentile of 1-hour daily maximum concentrations (high-fourth-high concentration) [a]
H_2S	1-hour	0.08	112	Not to be exceeded (high-first-high concentration)

[a] For 2-years of modeled meteorological data, compliance is determined by averaging concentrations from each modeled year on a receptor-by receptor basis.

In addition to the criteria pollutants listed in Table 2, the NDEP has also established an NvAAQS for the ozone (O_3) 8-hour averaging period. However, unlike the other criteria pollutants, O_3 is not directly emitted from industrial sources. Instead, it is formed through a series of complex photochemical reactions involving VOC, nitrogen oxides (NO_X), and other gases in the atmosphere on a regional scale. Therefore, O_3 impacts cannot be modeled using AERMOD. For these reasons, source-specific O_3 impacts are not evaluated in this analysis.

[2] NDEP. 2017. *RE: Background Concentrations for Air Dispersion Modeling*. Letter from D. Dragoni (NDEP) to T. Coulter (BLM), April 17.

2.11 Modeling Methodology

Regulatory default options in AERMOD were used to estimate the ground-level concentrations for all pollutants and averaging periods. The modeling approach for NO_2 and the treatment of intermittent emissions for 1-hour analyses are detailed in the following subsections.

2.11.1 NO_2 Modeling Method

The NO_X emissions from combustion sources are principally composed of nitrogen oxide (NO) and NO_2. Once in the atmosphere, NO is converted to NO_2 through the following chemical reaction with ambient ozone (O_3):

$$NO + O_3 \rightarrow NO_2 + O_2$$

Currently, the EPA's Guideline on Air Quality Models (40 CFR 51, Appendix W) presents a three-tiered approach to convert NO_X impacts to NO_2 impacts for comparison with the NO_2 NvAAQS. For this analysis, the default Tier 2 Ambient Ratio Method 2 (ARM2) with an alternative minimum ambient NO_2/NO_X ratio of 0.2 (rather than AERMOD's default value of 0.5), was used to estimate the NO_2 impacts. The alternative minimum value of 0.2 was determined from the highest in-stack NO_2/NOx ratio for any of the Lone Tree Mine's sources. The NO_2/NO_X in-stack ratios for all source categories, including diesel-fired internal combustion (IC) engines and boilers, were based on the default values in the California Air Pollution Control Officers Association's (CAPCOA) guidance document for NO_2 1-hour modeling.[3] The NO_2/NO_X in-stack ratio for each NO_X emitting source is provided in Appendix A.

2.11.2 Treatment of Intermittent Emissions for 1-hour Analyses

In its guidance on 1-hour modeling,[4] the EPA has recognized that intermittent sources that do not operate continuously or frequently enough—specifically, emergency generators—are less likely to contribute significantly to the annual distribution of daily maximum 1-hour values. The EPA recommends that "compliance demonstrations for the 1-hour NO_2 NAAQS be based on emission scenarios that can logically be assumed to be relatively continuous or which occur frequently enough to contribute significantly to the annual distribution of daily maximum 1-hour concentrations."[4]

The Lone Tree Mine includes several emergency generators to supply power to critical networks and equipment in the event that normal power supply is interrupted. The potential to emit for these generators was determined using the 100 hours per year allowed by the applicable NSPS/NESHAP regulations for maintenance and readiness testing; however, emergency generators typically operate for only a few hours per year and on a random schedule. For this reason, the operation of emergency generators is not frequent enough to contribute significantly to the annual distribution of daily maximum 1-hour concentrations, and, as such, the inclusion of the maximum hourly emission rate does not represent a logical emission scenario. Therefore, emissions from these intermittently operating generators

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[3] California Air Pollution Control Officers Association (CAPCOA). *Modeling Compliance of The Federal 1-Hour NO2 NAAQs*. October 27, 2011.

[4] Unites States Environmental Protection Agency (EPA). *Additional Clarification Regarding Application of Appendix W Modeling Guidance for the 1-hour NO_2 National Ambient Air Quality Standard*. March 1, 2011.

were based on an average hourly rate rather than the maximum hourly emissions for the NO_2 and SO_2 1-hour analyses.

2.12 Model Results and Compliance with NvAAQS

The modeled maximum concentrations and the estimated total ambient concentrations (modeled concentrations plus background concentrations) and their comparison with the applicable NvAAQS are presented in Table 3.

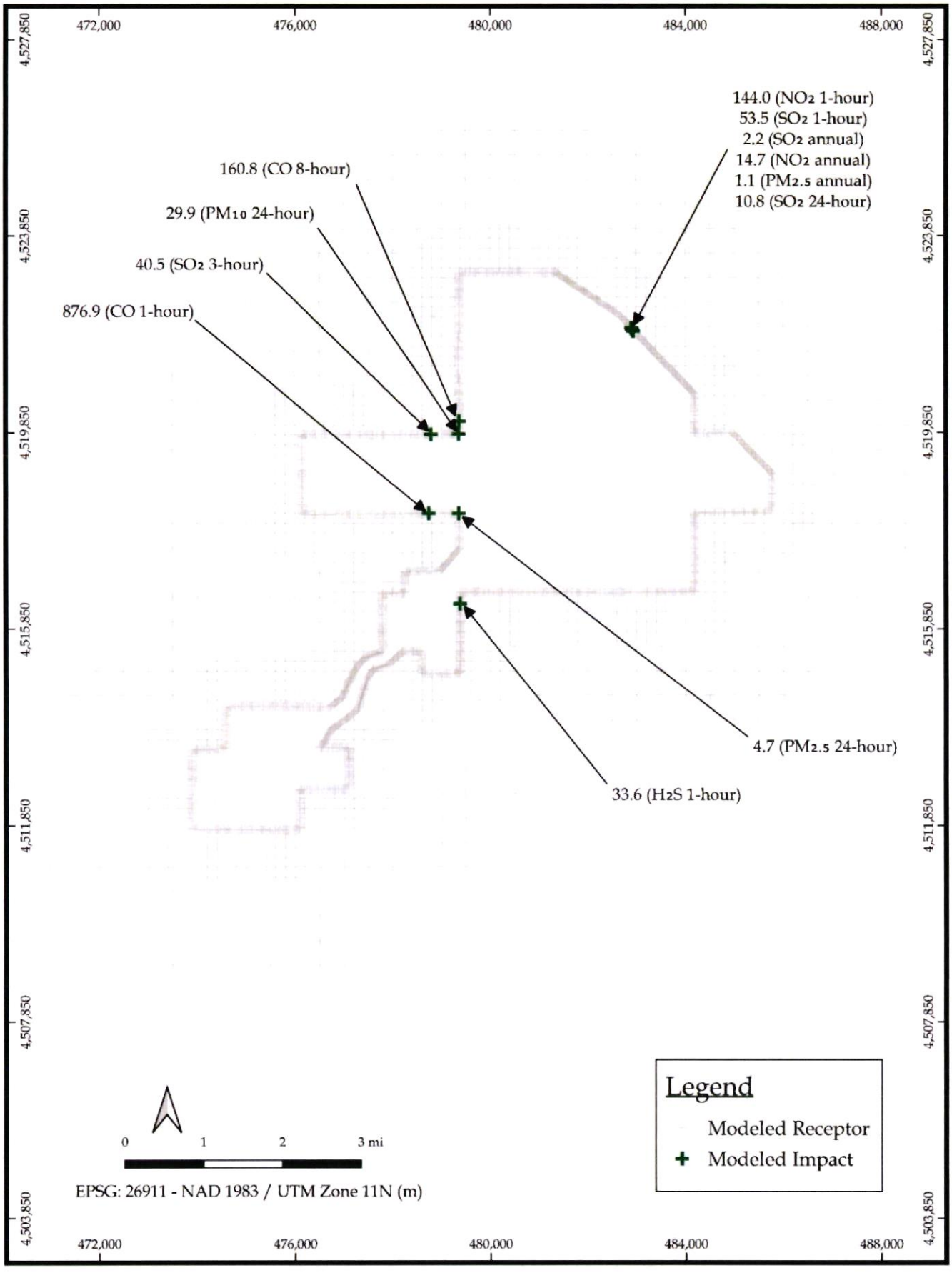
Table 3. Model Results and Comparison with NvAAQS

Pollutant	Averaging Period	Modeled Impact ($\mu g/m^3$)	Background Concentration ($\mu g/m^3$)	Total Impact ($\mu g/m^3$)	NvAAQS ($\mu g/m^3$)	Compliance
CO	8-hour [a]	160.8	0	160.8	10,500	Yes
	1-hour [a]	876.9	0	876.9	40,500	Yes
NO_2	Annual [e]	14.7	0	14.7	100	Yes
	1-hour [b]	144.0	0	144.0	188	Yes
$PM_{2.5}$	Annual [f]	1.1	2.3	3.4	12	Yes
	24-hour [c]	4.7	8.0	12.7	35	Yes
PM_{10}	24-hour [a]	29.9	10.2	40.1	150	Yes
SO_2	Annual [e]	2.2	0	2.2	80	Yes
	24-hour [a]	10.8	0	10.8	365	Yes
	3-hour [a]	40.5	0	40.5	1,300	Yes
	1-hour [d]	53.5	0	53.5	196	Yes
H_2S	1-hour [a]	33.6	0	33.6	112	Yes

[a] For a conservative analysis, the high-first-high modeled concentration was used to demonstrate compliance with the NvAAQS.
[b] High-eighth-high daily maximum 1-hour modeled concentration (2-year average) on a receptor-by-receptor basis.
[c] High-eighth-high daily modeled concentration (2-year average) on a receptor-by-receptor basis.
[d] High-fourth-high daily maximum 1-hour modeled concentration (2-year average) on a receptor-by-receptor basis.
[e] Maximum modeled annual concentration over two years of meteorological data.
[f] Two-year average of the annual modeled concentrations on a receptor-by-receptor basis.

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 Impacts



Appendix A – Model Input Parameters

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS																
Source ID	Model ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	CO-ALL gps	NO_x-1 gps	SO_2-1 gps	SO_2-ST gps	H_2S-1 gps	$PM_{2.5}$-AN gps	NO_x-AN gps	SO_2-AN gps	ht (m) ht (m)	temp (K) σ_y (m)	vel (m/s) σ_z (m)	dia (m)	NO_2/NO_x ISR	ISR reference
S2.001	S2001	Lime Silo Loading	481,890	4,520,448	1,374.0	POINT	0.0026	0.0004						0.0001			12.1920	0.00	7.3630	0.3614		
S2.002	S2002	Autoclave Lime Silo #2 Loading	480,360	4,518,834	1,400.7	POINT	0.0026	0.0004						0.0000			22.8600	0.00	30.4232	0.1524		
PF1.002	PF1002	Autoclave Lime Silo #2 Discharge to Slaker Tank	480,362	4,518,826	1,400.4	VOLUME	0.0088	0.0013						0.0002			1.5240	0.21	0.1418			
S2.003	S2003	Autoclave Lime Silo #4 Loading	480,369	4,518,829	1,399.8	POINT	0.0026	0.0004						0.0000			21.3360	0.00	17.9171	0.2316		
PF1.003	PF1003	Autoclave Lime Silo #4 Discharge to Slaker Tank	480,362	4,518,820	1,399.8	VOLUME	0.0088	0.0013						0.0003			1.5240	0.21	0.1418			
S2.020	S2020	Leach Pad Lime Silo Loading	479,966	4,518,908	1,409.0	POINT	0.0026	0.0008						0.0001			12.1920	0.00	7.3080	0.3627		
PF1.004	PF1004	Leach Pad Lime Silo Discharge	479,966	4,518,908	1,409.0	VOLUME	0.0088	0.0013						0.0005			1.5240	0.21	0.1418			
S2.021	S2021	Lime Storage Trailer	479,967	4,518,918	1,409.0	POINT	0.0026	0.0004						0.0001			12.1920	0.00	7.3080	0.3627		
S2.022	S2022	Emergency Diesel-Fired Generator (1,105 kW, Caterpillar, CAT3512, 1993), Mill CIC	480,206	4,518,727	1,401.0	POINT	0.1307	0.1307	1.1109	0.0477	0.0000	0.0019		0.0015	0.0477	0.0000	4.2672	797.15	85.8283	0.2530	0.2	*Diesel IC Engine (CAPCOA 2011)*
S2.023	S2023	Emergency Diesel-Fired Generator (900 kW, Onan-Cummins, KTA38-G4, 1993), Mill Grinding	480,320	4,518,790	1,401.0	POINT	0.1315	0.1315	1.0334	0.0515	0.0000	0.0023		0.0015	0.0515	0.0000	3.4747	699.82	148.4861	0.2012	0.2	*Diesel IC Engine (CAPCOA 2011)*
S2.025	S2025	Emergency Propane-Fired Generator (9.66 kW, Kohler, 2020)	481,537	4,519,994	1,416.9	POINT	0.0014	0.0014	0.0361	0.0004	0.0000	0.0001		0.0000	0.0004	0.0000	0.8040	1033.15	105.2482	0.0254	0.1	*NG IC Engine (CAPCOA 2011)*
S2.029	S2029	Emergency Diesel Fire Pump (522 hp, Caterpillar, 3406, 1991)	482,733	4,521,622	1,368.8	POINT	0.1447	0.1447	0.4393	0.0233	0.0015	0.1348		0.0017	0.0233	0.0015	3.1242	699.82	159.7051	0.1372	0.2	*Diesel IC Engine (CAPCOA 2011)*
PF1.005	PF1005	Loader Feed to Grizzly/Hoppers #1 and #2	480,330	4,518,885	1,401.1	VOLUME	0.0208	0.0032						0.0032			2.1336	1.06	0.8506			
PF1.006	PF1006	Hoppers #1 and #2 transfer to Ore Reclaim Feeders #1 and #2	480,330	4,518,879	1,401.0	VOLUME	0.0104	0.0016						0.0016			1.8288	0.71	0.4253			
PF1.007	PF1007	Ore Reclaim Feeders #1 and #2 to SAG Feed Conveyor	480,330	4,518,869	1,400.9	VOLUME	0.0104	0.0016						0.0016			1.8288	0.71	0.4253			
PF1.008	PF1008	SAG Feed Conveyor transfer to SAG Mill	480,330	4,518,780	1,400.9	VOLUME	0.0139	0.0021						0.0021			1.8288	0.28	0.5671			
S2.030	S2030	Autoclave	480,361	4,518,734	1,401.1	POINT	0.7421	0.7421			0.6804	0.6804	0.5179	0.7421		0.6804	28.9560	377.59	27.6482	0.4889		
S2.031	S2031	Autoclave Boiler	480,324	4,518,713	1,400.9	POINTCAP	0.0347	0.0347	0.3718	0.6444	0.0788	0.0788		0.0347	0.6444	0.0788	12.2745	549.82	10.7673	0.8636	0.1	*(CAPCOA 2011)*
PF1.009	PF1009	Filter Press #1 transfer to Stockpile	480,468	4,518,906	1,403.7	VOLUME	0.0037	0.0006						0.0006			4.2672	0.57	0.5671			
PF1.010	PF1010	Filter Press #2 transfer to Stockpile	480,462	4,518,906	1,403.7	VOLUME											4.2672	0.57	0.5671			

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS															
Source ID	Model ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	CO-ALL gps	NO_X-1 gps	SO_2-1 gps	SO_2-ST gps	H_2S-1 gps	$PM_{2.5}$-AN gps	NO_X-AN gps	SO_2-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)	NO_2/NO_X ISR	ISR reference
PF1.011	PF1011	Filter Press #3 transfer to Belt Feeder #3	480,435	4,518,901	1,403.7	VOLUME	0.0037	0.0006						0.0006			4.2672	0.57	0.2835			
PF1.012	PF1012	Filter Press #4 transfer to Belt Feeder #4	480,424	4,518,901	1,403.7	VOLUME											4.2672	0.57	0.2835			
PF1.013	PF1013	Belt Feeder #3 transfer to Stockpile	480,435	4,518,914	1,403.7	VOLUME	0.0037	0.0006						0.0006			3.0480	0.21	0.2835			
PF1.014	PF1014	Belt Feeder #4 transfer to Stockpile	480,424	4,518,915	1,403.7	VOLUME											3.0480	0.21	0.2835			
S2.032	S2032	Electric Carbon Regeneration Kiln	480,375	4,518,765	1,399.6	POINT	0.0340	0.0340	0.0923					0.0340			16.7640	366.48	18.0459	0.1016		
S2.037	S2037	Melt Furnace	480,243	4,518,745	1,401.2	POINT	0.0497	0.0497						0.0497			11.5824	366.48	18.3838	0.3147		
S2.038	S2038	Oxygen Plant Propane Vaporizer	480,413	4,518,779	1,403.2	POINT	0.0062	0.0062	0.0668	0.1158	0.0142	0.0142		0.0062	0.1158	0.0142	2.4384	455.37	100.9405	0.1016	0.1	*Natural Gas Boiler; (CAPCOA 2011)*
S2.039	S2039	POX Emergency Generator (3,470 HP, mfd. 2006 c	480,320	4,518,798	1,401.0	POINT	0.1438	0.1438	2.5157	0.0525	0.0001	0.0045		0.0016	0.0525	0.0001	3.0480	763.87	284.9793	0.2032	0.2	*Diesel IC Engine (CAPCOA 2011)*
IA1.001 - IA1.005	IA1001	Administration Building Heaters (5)	482,829	4,521,890	1,355.9	VOLUME	0.0057	0.0057	0.0609	0.1056	0.0129	0.0129		0.0057	0.1056	0.0129	1.8288	11.84	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.006 - IA1.013	IA1006	Lab Building Heaters (8)	480,220	4,518,777	1,401.2	VOLUME	0.0077	0.0077	0.0826	0.1432	0.0175	0.0175		0.0077	0.1432	0.0175	1.8288	4.89	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.014 - IA1.015	IA1014	I & E Building Heaters (2)	480,212	4,518,827	1,400.5	VOLUME	0.0008	0.0008	0.0083	0.0143	0.0018	0.0018		0.0008	0.0143	0.0018	1.8288	2.34	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.016 - IA1.017	IA1016	CIC Building Heaters (2)	480,229	4,518,720	1,401.2	VOLUME	0.0041	0.0041	0.0438	0.0759	0.0093	0.0093		0.0041	0.0759	0.0093	6.8580	5.81	6.3795		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.018	IA1018	Maintenance Shop Heater (1)	480,293	4,518,816	1,400.9	VOLUME	0.0002	0.0002	0.0026	0.0045	0.0005	0.0005		0.0002	0.0045	0.0005	3.8100	4.39	3.5442		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.020 - IA1.021	IA1020	Maintenance Shop Heaters (2)	480,293	4,518,816	1,400.9	VOLUME	0.0040	0.0040	0.0434	0.0752	0.0092	0.0092		0.0040	0.0752	0.0092	3.8100	4.39	3.5442		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.021 - IA1.025	IA1021	Reagents Building Heaters (5)	480,352	4,518,818	1,400.7	VOLUME	0.0036	0.0036	0.0382	0.0662	0.0081	0.0081		0.0036	0.0662	0.0081	5.6388	4.89	5.2454		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.026 - IA1.039	IA1026	Mill Building Heaters (9)	480,333	4,518,764	1,401.0	VOLUME	0.0087	0.0087	0.0929	0.1611	0.0197	0.0197		0.0087	0.1611	0.0197	13.7160	13.96	12.7591		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.040 - IA1.053	IA1040	Flotation Building Heaters (14)	480,440	4,518,828	1,403.7	VOLUME	0.0135	0.0135	0.1446	0.2506	0.0307	0.0307		0.0135	0.2506	0.0307	1.8288	5.32	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.054	IA1054	Ammonium Nitrate Silo #1 Loading	480,281	4,519,679	1,386.0	POINT	0.0794	0.0120						0.00050			7.6200	0.00	0.0010	0.3048		
IA1.055	IA1055	Ammonium Nitrate Silo #1 Unloading	480,281	4,519,679	1,386.0	VOLUME	0.0794	0.0120						0.00050			1.8288	0.28	0.2835			
IA1.060	IA1060	Ammonium Nitrate Silo #2 Loading	480,282	4,519,688	1,386.0	POINT	0.0794	0.0120						0.00050			7.6200	0.00	0.0010	0.3048		

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS																
Source ID	Model ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	CO-ALL gps	NO_x-1 gps	SO_2-1 gps	SO_2-ST gps	H_2S-1 gps	$PM_{2.5}$-AN gps	NO_x-AN gps	SO_2-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)	NO_2/NO_x ISR	ISR reference
IA1.061	IA1061	Ammonium Nitrate Silo #2 Unloading	480,282	4,519,688	1,386.0	VOLUME	0.0794	0.0120						0.00050			1.8288	0.28	0.2835			
IA1.062	IA1062	Laboratory Jaw Crusher	480,236	4,518,766	1,401.3	POINT	7.26E-06	1.21E-06						1.21E-06			10.6680	0.00	15.8108	0.9144		
IA1.063 - IA1.064	IA1063	Laboratory Ring and Puck Pulverizers (2)	480,236	4,518,766	1,401.3	POINT	1.45E-05	2.12E-06						2.12E-06			10.6680	0.00	15.8108	0.9144		
IA1.065 - IA1.066	IA1065	Rocklab Pulverizer (2)	480,236	4,518,766	1,401.3	POINT	1.45E-05	2.12E-06						2.12E-06			10.6680	0.00	15.8108	0.9144		
IA1.067	IA1067	Laboratory Boyd-RSD Combo Crusher/Rotary Splitter	480,236	4,518,766	1,401.3	POINT	7.26E-06	1.21E-06						1.21E-06			10.6680	0.00	15.8108	0.9144		
IA1.068 - IA1.069	IA1068	CRM Pulverizers (2)	480,236	4,518,766	1,401.3	POINT	1.45E-05	2.12E-06						2.12E-06			10.6680	0.00	15.8108	0.9144		
IA1.070 - IA1.073	IA1070	Pouring/Crucible Furnaces (4)	480,236	4,518,766	1,401.1	POINT	0.2419	0.2419						0.2419			5.4864	301.48	21.0514	0.5852		
IA1.074 - IA1.075	IA1074	Cupellation Furnaces (2)	480,236	4,518,766	1,401.1	POINT	0.1210	0.1210						0.1210			5.4864	301.48	21.0514	0.5852		
IA1.076 - IA1.078	IA1076	Strip Building Heaters (3)	480,356	4,518,772	1,400.2	VOLUME	0.0029	0.0029	0.0310	0.0537	0.0066	0.0066		0.0029	0.0537	0.0066	13.7160	3.69	12.7591		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.079 - IA1.080	IA1079	Boiler Building Heaters (2)	480,329	4,518,718	1,400.9	VOLUME	0.0019	0.0019	0.0207	0.0358	0.0044	0.0044		0.0019	0.0358	0.0044	5.8369	3.47	5.4297		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.081 - IA1.082	IA1081	Refinery Building Heaters (2)	480,235	4,518,747	1,401.3	VOLUME	0.0019	0.0019	0.0207	0.0358	0.0044	0.0044		0.0019	0.0358	0.0044	4.5415	3.05	4.2247		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.083	IA1083	O2 Plant Building Electrical Room Heaters (1)	480,416	4,518,757	1,403.4	VOLUME	0.0010	0.0010	0.0103	0.0179	0.0022	0.0022		0.0010	0.0179	0.0022	1.8288	0.92	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.084	IA1084	O2 Plant Building Control Room Heaters (1)	480,429	4,518,749	1,403.7	VOLUME	0.0010	0.0010	0.0103	0.0179	0.0022	0.0022		0.0010	0.0179	0.0022	1.8288	0.92	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.085	IA1085	O2 Plant Compressor Building Heaters (1)	480,466	4,518,774	1,403.8	VOLUME	0.0010	0.0010	0.0103	0.0179	0.0022	0.0022		0.0010	0.0179	0.0022	1.8288	1.84	1.7012		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.086 - IA1.103	IA1086	New Tailings Filtration Building Heaters (18)	480,429	4,518,879	1,403.3	VOLUME	0.0174	0.0174	0.1859	0.3222	0.0394	0.0394		0.0174	0.3222	0.0394	11.2166	3.69	10.4341		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.104 - IA1.108	IA1104	Quench Water Treatment Building Heaters (4)	480,432	4,518,727	1,403.7	VOLUME	0.0039	0.0039	0.0413	0.0716	0.0088	0.0088		0.0039	0.0716	0.0088	3.3223	2.34	3.0905		0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.109	IA1109	Autoclave Plant Service Cooling Tower	480,349	4,518,714	1,400.9	POINT	0.0030	0.0030						0.0030			3.9624	0.00	3.2779	2.4384		
IA1.110	IA1110	Autoclave Process Service Cooling Tower	480,360	4,518,715	1,401.0	POINT	0.0191	0.0191						0.0191			3.9624	0.00	6.5592	6.0960		
IA1.111	IA1111	Quench Solution Cooling Tower #1	480,460	4,518,726	1,404.5	POINT	0.0145	0.0145						0.0145			4.8768	0.00	7.5609	3.6576		
IA1.112	IA1112	Quench Solution Cooling Tower #2	480,460	4,518,731	1,404.4	POINT	0.0145	0.0145						0.0145			4.8768	0.00	7.5609	3.6576		

SOURCE DESCRIPTION			NAD 83 LOCATION			MODEL EMISSION RATES / RELEASE PARAMETERS																
Source ID	Model ID	Source Description	UTM E m	UTM N m	elev m	POINT VOLUME	PM_{10}-24 gps	$PM_{2.5}$-24 gps	CO-ALL gps	NO_x-1 gps	SO_2-1 gps	SO_2-ST gps	H_2S-1 gps	$PM_{2.5}$-AN gps	NO_x-AN gps	SO_2-AN gps	ht (m) ht (m)	temp (K) σy (m)	vel (m/s) σz (m)	dia (m)	NO_2/NO_x ISR	ISR reference
IA1.113	IA1113	Quench Solution Cooling Tower #3	480,460	4,518,736	1,404.3	POINT	0.0145	0.0145						0.0145			4.8768	0.00	7.5609	3.6576		
IA1.114 - IA1.115	IA1114	Propane Vaporizers (x2)	480,282	4,518,730	1,402.0	POINT	0.0007	0.0007	0.0076	0.0132	0.0016	0.0016		0.0007	0.0132	0.0016	1.8288	455.37	7.1071	0.1524	0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.116	IA1116	Admin Propane Tank Vaporizer	482,744	4,521,917	1,355.7	POINT	0.0001	0.0001	0.0013	0.0023	0.00028	0.00028		0.0001	0.0023	0.0003	1.8288	455.37	1.2473	0.1524	0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.117	IA1117	Mill Propane Tank Vaporizer	480,280	4,518,730	1,402.0	POINT	0.0004	0.0004	0.0038	0.0066	0.00081	0.00081		0.0004	0.0066	0.0008	1.8288	455.37	3.5535	0.1524	0.1	*Natural Gas Boiler; (CAPCOA 2011)*
IA1.118	IA1118	Sulfuric Acid Storage Tank #1	480,415	4,518,696	1,406.8	POINT	4.94E-07	4.94E-07						4.94E-07			7.0104	0.00	0.0010	0.1524		
IA1.119	IA1119	Sulfuric Acid Storage Tank #2	480,377	4,518,693	1,406.8	POINT	4.94E-07	4.94E-07						4.94E-07			7.0104	0.00	0.0010	0.1524		
IA1.120	IA1120	Grinding Flocculant System	480,352	4,518,815	1,400.8	VOLUME	2.21E-05	3.34E-06						3.34E-06			2.7432	0.28	0.1418			
IA1.121	IA1121	Tailings Flocculant System	480,423	4,518,884	1,403.3	VOLUME	2.21E-05	3.34E-06						3.34E-06			2.7432	0.28	0.1418			
IA1.122	IA1122	Quench Flocculant System	480,419	4,518,736	1,403.6	VOLUME	2.21E-05	3.34E-06						3.34E-06			2.7432	0.28	0.1418			