

BUREAU OF AIR POLLUTION CONTROL

901 SOUTH STEWART STREET SUITE 4001

CARSON CITY, NEVADA 89701-5249

p: 775-687-9350 • www.ndep.nv.gov/bapc • f: 775-687-6396

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., hereafter called the Permittee

Mailing Address: HC 66 Box 1250, Crescent Valley, Nevada 89821-1250

Physical Address: HC 66 Box 1250, Crescent Valley, Nevada 89821-1250

General Facility Location: 38 Miles south of I-80 from Exit 261 (Beowawe exit) on State Route 306.

Crescent Valley, Nevada

SECTIONS 1, 12; T26N; R47E MDB&M (HA 54, LANDER COUNTY)

SECTIONS 6, 7; T26N; R48E MDB&M (HA 54, LANDER COUNTY)

SECTIONS 1, 12; T27N; R46E MDB&M (HA 54, LANDER COUNTY)

SECTIONS 4-10, 13-18, 23-26, 35-36; T27N; R47E MDB&M (HA 54, LANDER COUNTY)

SECTIONS 25, 36; T28N; R46E MDN B&M (H54, LANDER COUNTY)

SECTIONS 28-33; T28N; R47E MDB&M (HA54, LANDER COUNTY)

CORTEZ OPERATIONS: NORTH 4,449.90 KM, EAST 532.55 KM, UTM (ZONE 11, NAD83)

PIPELINE OPERATIONS: NORTH 4,456.90 KM, EAST 524.00 KM, UTM (ZONE 11, NAD 83)

Emission Unit List: (186 Emission Units)

PIPELINE OPERATIONS

A. System 1 – Pipeline Primary Metallic Ore Crushing System

- PF 1.001 Truck Dump of Metallic Ore to Jaw Crusher Dump Pocket
- PF 1.002 Jaw Crusher Dump Pocket transfer of Metallic Ore to Jaw Crusher Apron Feeder
- PF 1.003 Jaw Crusher Apron Feeder transfer of Metallic Ore to Vibrating Grizzly Screen via Chute
- PF 1.004 Vibrating Grizzly Screen (mfd. by Fister Machining Company, mdl# VEG 8420, s/n 64372)
- PF 1.005 Vibrating Grizzly Screen transfer of Metallic Ore to Jaw Crusher (oversize)
- PF 1.006 Vibrating Grizzly Screen transfer of Metallic Ore to Conveyor #1 (undersize)
- PF 1.007 Jaw Crusher (mfd by Nordberg, mdl# R196-0027)
- PF 1.008 Jaw Crusher transfer of Metallic Ore to 48"x580' Conveyor #1

B. System 2 – Pipeline Metallic Ore Transfers

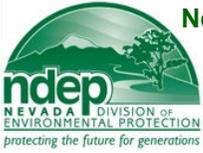
- PF 1.009 48"x580' Conveyor #1 transfer of Metallic Ore to 48"x375' Conveyor #2
- PF 1.010 48"x375' Conveyor #2 (Stacker Conveyor) transfer of Metallic Ore to Metallic Ore Stockpile

C. System 3 – Pipeline Metallic Ore Transfers

- PF 1.011 Apron Feeder #1 transfer of Metallic Ore to 42"x650' Conveyor #3
- PF 1.012 Apron Feeder #2 transfer of Metallic Ore to 42"x650' Conveyor #3
- PF 1.013 Emergency Apron Feeder transfer of Metallic Ore to 42"x650' Conveyor #3

D. System 4 – Pipeline Metallic Ore Transfer

- PF 1.014 42"x650' Conveyor #3 transfer of Metallic Ore to SAG Mill



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E. System 5 – Pipeline Wet Mill Crushing & Screening System

- PF 1.015 SAG Mill and Metallic Ore transfer to SAG Mill Screens
- PF 1.016 SAG Mill Screens and Metallic Ore transfer to Grinding Cyclones (undersize) and Conveyor #4 (oversize)
- PF 1.017 Grinding Cyclones and Metallic Ore transfer to Ball Mill (oversize) and Trash Screens (undersize)
- PF 1.018 Ball Mill and Metallic Ore transfer to Grinding Cyclones
- PF 1.019 Trash Screens and Metallic Ore transfer to Surge Tank

F. System 6 – Pipeline Secondary Metallic Ore Crushing System

- PF 1.020 Conveyor #4 transfer of Metallic Ore to Conveyor #5
- PF 1.021 Conveyor #5 transfer of Metallic Ore to Cone Crusher
- PF 1.022 Cone Crusher (mfd by Nordberg, mdl# 1560)
- PF 1.023 Cone Crusher transfer of Metallic Ore to Conveyor #6
- PF 1.024 Conveyor #6 transfer of Metallic Ore to Conveyor #3 (SAG Mill Feed Conveyor)

G. System 6A – Pipeline Secondary Metallic Ore Crushing System, Alternate Operating Scenario to System 6

- PF 1.020A Conveyor #4 transfer of Metallic Ore to Conveyor #5
- PF 1.025 Conveyor #5 transfer of Metallic Ore to Scats Stockpile

H. System 6B – Pipeline Secondary Metallic Ore Crushing System, Alternate Operating Scenario to System 6

- PF 1.020B Conveyor #4 transfer of Metallic Ore to Conveyor #5
- PF 1.026 Conveyor #5 transfer of Metallic Ore to Conveyor #6
- PF 1.024B Conveyor #6 transfer of Metallic Ore to Conveyor #3 (SAG Mill Feed Conveyor)

I. System 7 – Pipeline Wet Mill Lime Silo

- S 2.001 Wet Mill Lime Silo pneumatic loading
- PF 1.027 Wet Mill Lime Silo unloading to 42"x650' Conveyor #3 via enclosed Screw Conveyor

J. System 8 – Pipeline Refinery Induction Furnaces

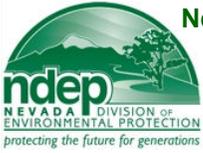
- S 2.002 Refinery Induction Furnace #1 (mfd by Inducto Therm, mdl# VIP Power Trak-R)
- S 2.003 Refinery Induction Furnace #2 (mfd by Inducto Therm, mdl# VIP Power Trak-R)

K. System 9 – Pipeline Gold Sludge Dryer

- S 2.004 Electric Gold Sludge Dryer Oven (mfd by Thei Gieve Corp., mdl# TBH-500)

L. System 9A – Reserved

- S 2.005 Reserved
- S 2.006 Reserved



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M. System 10 – Pipeline Carbon Reactivation Kilns

- S 2.007 Carbon Reactivation Kiln #1 (mfd by Lockheed Haggerty)
- S 2.008 Carbon Reactivation Kiln #2 (mfd by Lockheed Haggerty)

N. System 11 – Pipeline Carbon Stripping Vessel Boilers

- S 2.009 4.8 MMBtu/hr Carbon Stripping Vessel Boiler #1 (mfd by Cleaver Brooks, mdl# CB480)
- S 2.010 4.8 MMBtu/hr Carbon Stripping Vessel Boiler #2 (mfd by Cleaver Brooks, mdl# CB480)
- S 2.011 4.8 MMBtu/hr Carbon Stripping Vessel Boiler #3 (mfd by Cleaver Brooks, mdl# CB480)

O. System 12 – Pipeline Mill 50 Ton Pebble Lime Silo

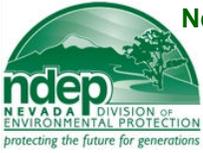
- S 2.012 Pebble Lime Silo pneumatic loading
- PF 1.028 Pebble Lime Silo unloading to enclosed Screw Conveyor

P. System 13 – Pipeline Assay Laboratory Sample Preparation

- S 2.013a Automatic Ring Pulverizer 1
- S 2.013b Automatic Ring Pulverizer 2
- S 2.013c Manual Ring Pulverizer 1
- S 2.013d Manual Ring Pulverizer 2
- S 2.013e Manual BICO Disk Pulverizer
- S 2.013f Automatic Jaw Crusher/Pulverizer/Splitter 1
- S 2.013g Automatic Jaw Crusher/Pulverizer/Splitter 2
- S 2.013h Manual Rhino Jaw Crusher
- S 2.013i Manual Splitter
- S 2.013j Reject Conveyor

Q. System 14 – Pipeline Assay Laboratory Furnaces

- S 2.018a Fire Assay Fusion Furnace 1, mfd by DFL, Inc., mdl# 810B
- S 2.018b Fire Assay Fusion Furnace 2, mfd by DFL, Inc., mdl# 810B
- S 2.018c Fire Assay Fusion Furnace 3, mfd by DFL, Inc., mdl# 810B
- S 2.018d Fire Assay Fusion Furnace 4, mfd by DFL, Inc., mdl# 810B
- S 2.018e Fire Assay Fusion Furnace 5, mfd by DFL, Inc., mdl# 810B
- S 2.018f Fire Assay Fusion Furnace 6, mfd by DFL, Inc., mdl# 810B
- S 2.018g Fire Assay Lab Modular Furnace, mfd by MAS



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R. System 15 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario

- PF 1.029 Truck Dump of Metallic Ore to Primary Jaw Crusher with Grizzly
- PF 1.030 Primary Jaw Crusher (mfd by El-Russ Aggregate Systems)
- PF 1.031 Primary Jaw Crusher transfer of Metallic Ore to Conveyor C-1
- PF 1.032 Conveyor C-1 transfer of Metallic Ore to Conveyor C-2
- PF 1.033 Conveyor C-2 transfer of Metallic Ore to 3-Deck Screen
- PF 1.034 3-Deck Screen (mfd by El-Russ Aggregate Systems)
- PF 1.035 3-Deck Screen transfer of Metallic Ore to Conveyor C-3
- PF 1.036 3-Deck Screen transfer of Metallic Ore to Conveyor C-6
- PF 1.037 3-Deck Screen transfer of Metallic Ore to Conveyor C-9

S. System 15A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario

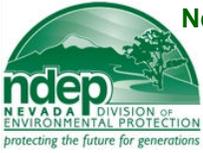
- PF 1.029A Truck Dump of Aggregate to Primary Jaw Crusher with Grizzly
- PF 1.030A Primary Jaw Crusher (mfd by El-Russ Aggregate Systems)
- PF 1.031A Primary Jaw Crusher transfer of Aggregate to Conveyor C-1
- PF 1.032A Conveyor C-1 transfer of Aggregate to Conveyor C-2
- PF 1.033A Conveyor C-2 transfer of Aggregate to 3-Deck Screen
- PF 1.034A 3-Deck Screen (mfd by El-Russ Aggregate Systems)
- PF 1.035A 3-Deck Screen transfer of Aggregate to Conveyor C-3
- PF 1.036A 3-Deck Screen transfer of Aggregate to Conveyor C-6
- PF 1.037A 3-Deck Screen transfer of Aggregate to Conveyor C-9

T. System 16 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario

- PF 1.038 Conveyor C-9 transfer of Metallic Ore to Conveyor C-10
- PF 1.039 Conveyor C-10 transfer of Metallic Ore to Secondary Cone Crusher
- PF 1.040 Secondary Cone Crusher (mfd by Allis, mdl# H4000)
- PF 1.041 Secondary Cone Crusher transfer of Metallic Ore to Conveyor C-11
- PF 1.042 Conveyor C-11 transfer of Metallic Ore to 3-Deck Screen (PF1.033)

U. System 16A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario

- PF 1.038A Conveyor C-9 transfer of Aggregate to Conveyor C-10
- PF 1.039A Conveyor C-10 transfer of Aggregate to Secondary Cone Crusher
- PF 1.040A Secondary Cone Crusher (mfd by Allis, mdl# H4000)
- PF 1.041A Secondary Cone Crusher transfer of Aggregate to Conveyor C-11
- PF 1.042A Conveyor C-11 transfer of Aggregate to 3-Deck Screen (PF1.033A)



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V. System 17 – Pipeline Portable Crushing & Screening System, Metallic Ore Operating Scenario

- PF 1.043 Conveyor C-3 transfer of Metallic Ore to Conveyor C-4
- PF 1.044 Conveyor C-4 transfer of Metallic Ore to Radial Stacker C-5
- PF 1.045 Radial Stacker C-5 transfer of Metallic Ore to Coarse Ore Stockpile
- PF 1.046 Conveyor C-6 transfer of Metallic Ore to Conveyor C-7
- PF 1.047 Conveyor C-7 transfer of Metallic Ore to Radial Stacker C-8
- PF 1.048 Radial Stacker C-8 transfer of Metallic Ore to Crushed Ore Stockpile

W. System 17A – Pipeline Portable Crushing & Screening System, Aggregate Operating Scenario

- PF 1.043A Conveyor C-3 transfer of Aggregate to Conveyor C-4
- PF 1.044A Conveyor C-4 transfer of Aggregate to Radial Stacker C-5
- PF 1.045A Radial Stacker C-5 transfer of Aggregate to Coarse Aggregate Stockpile
- PF 1.046A Conveyor C-6 transfer of Aggregate to Conveyor C-7
- PF 1.047A Conveyor C-7 transfer of Aggregate to Radial Stacker C-8
- PF 1.048A Radial Stacker C-8 transfer of Aggregate to Crushed Aggregate Stockpile

X. System 18 – Pipeline A28 Heap Leach Lime Silo

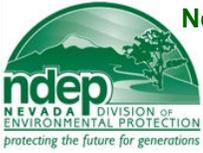
- S 2.019 A28 Heap Leach Lime Silo pneumatic or A28 Bucket Elevator loading
- PF 1.049 A28 Lime Silo Reclaim transfer to A28 Conveyor #2
- PF 1.050 A28 Conveyor #2 transfer to A28 Weigh Hopper
- PF 1.051 A28 Weigh Hopper transfer to Truck
- PF 1.052 A28 Truck Dump transfer to A28 Truck Dump Pocket
- PF 1.053 A28 Truck Dump Pocket transfer to A28 Conveyor #1
- PF 1.054 A28 Conveyor #1 transfer to A28 Bucket Elevator

Y. System 18A – Pipeline A28 Heap Leach Lime Silo, Alt Loading Scenario to System 18 – REMOVED

Z. System 19 – Pipeline A30 Heap Leach Lime Silo

- S 2.021 A30 Heap Leach Lime Silo pneumatic or A30 Bucket Elevator loading
- PF 1.055 A30 Lime Silo Reclaim transfer to A30 Conveyor #2
- PF 1.056 A30 Conveyor #2 transfer to A30 Weigh Hopper
- PF 1.057 A30 Weigh Hopper transfer to Truck
- PF 1.058 A30 Truck Dump transfer to A30 Truck Dump Pocket
- PF 1.059 A30 Truck Dump Pocket transfer to A30 Conveyor #1
- PF 1.060 A30 Conveyor #1 transfer to A30 Bucket Elevator

AA. System 19A – Pipeline A30 Heap Leach Lime Silo, Alt Loading Scenario to System 19 – REMOVED



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AB. System 20 – Gold Acres 20 Ton Lime Silo

- S 2.023 Gold Acres Lime Silo pneumatic loading
- PF 1.061 Gold Acres Lime Silo unloading to Truck

CORTEZ OPERATIONS

AC. System 21 – Cortez Mill Primary Metallic Ore Crushing System

- PF 1.062 Loader transfer of Metallic Ore to 50 Ton Ore Bin
- PF 1.063 50 Ton Ore Bin transfer of Metallic Ore to Hydrastoke Feeder
- PF 1.064 Hydrastoke Feeder transfer of Metallic Ore to Jaw Crusher
- PF 1.065 Jaw Crusher (mfd by BLH, mdl# 42"x48', s/n 424808)
- PF 1.066 Jaw Crusher transfer of Metallic Ore to Conveyor #1
- PF 1.067 Conveyor #1 transfer of Metallic Ore to Conveyor #2
- PF 1.068 Conveyor #2 transfer of Metallic Ore to Vibrating Screen
- PF 1.069 Vibrating Screen
- PF 1.070 Vibrating Screen transfer of oversize Metallic Ore to Cone Crusher
- PF 1.071 Vibrating Screen transfer of undersize Metallic Ore to Conveyor #3A

AD. System 22 – Cortez Mill Secondary Metallic Ore Crushing System

- PF 1.072 Cone Crusher
- PF 1.073 Cone Crusher transfer of Metallic Ore to Conveyor #1

AE. System 23 – Cortez Mill Metallic Ore Transfers

- PF 1.074 Conveyor #3a transfer of Metallic Ore to Conveyor #3
- PF 1.075 Conveyor #3 transfer of Metallic Ore to Crushed CIL Ore Stockpile
- PF 1.076 Crushed CIL Ore Stockpile transfer of Metallic Ore to Conveyor #4A
- PF 1.077 Conveyor #4A transfer of Metallic Ore to Conveyor #4B

AF. System 23A – Cortez Mill Metallic Ore Transfers, Alternate Operating Scenario to System 23

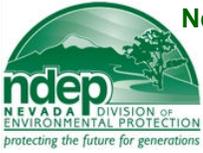
- PF 1.078 Loader transfer of Metallic Ore to 20 Ton Ore Bin
- PF 1.079 20 Ton Ore Bin transfer of Metallic Ore to Conveyor #4A
- PF 1.077A Conveyor #4A transfer of Metallic Ore to Conveyor #4B

AG. System 24 – Cortez Mill Metallic Ore Transfer

- PF 1.080 Conveyor #4B transfer of Metallic Ore to Rod Mill

AH. System 25 – Cortez Mill CIP Lime Silo

- S 2.024 CIP Lime Silo pneumatic loading
- PF 1.081 CIP Lime Silo unloading to Lime Grinding Mill via enclosed Screw Conveyor
- PF 1.082 Lime Grinding Mill transfer to Rod Mill



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AI. System 26 – Cortez Mill Wet Crushing & Screening System

- PF 1.083 Rod Mill and transfer of Metallic Ore to Cyclones
- PF 1.084 Cyclones and Metallic Ore transfer to Ball Mill (oversize) and Vibrating Screens (undersize)
- PF 1.085 Vibrating Screens and Metallic Ore transfer to Ball Mill (oversize) or Surge Tank (undersize)
- PF 1.086 Ball Mill and Metallic Ore transfer to Cyclones

AJ. System 27 – Cortez Mill 100 Ton Leach Lime Silo

- S 2.025 Leach Lime Silo pneumatic loading
- PF 1.087 Leach Lime Silo unloading to Truck

AK. System 28 – Cortez Underground Shotcrete Plant – Cement Transfers

- S 2.026 Shotcrete Cement Silo pneumatic loading
- PF 1.088 Shotcrete Cement Silo unloading to Cement Hopper
- PF 1.089 Cement Hopper auger transfer to Mix Hopper

AL. System 29 – Cortez Underground Shotcrete Plant – Aggregate Transfers

- PF 1.090 Loader transfer of Aggregate to Aggregate Bin
- PF 1.091 Aggregate Bin auger transfer to Mix Hopper

AM. System 30 – Cortez Hills 100 Ton Leach Lime Silo

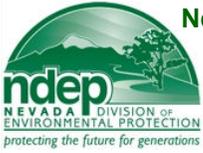
- S 2.027 Leach Lime Silo pneumatic loading
- PF 1.092 Leach Lime Silo unloading to Truck

AN. System 31 – Cortez Hills Metallic Ore Crushing System

- S 2.028 Loader transfer of Metallic Ore to Jaw Crusher Dump Pocket
- S 2.029 Jaw Crusher Dump Pocket transfer of Metallic Ore to Jaw Crusher
- S 2.030 Jaw Crusher
- S 2.031 Jaw Crusher transfer of Metallic Ore to Surge Pocket/Apron Feeder
- S 2.032 Apron Feeder transfer of Metallic Ore to Discharge Conveyor #1
- S 2.033 Discharge Conveyor #1 transfer of Metallic Ore to Discharge Conveyor #2

AO. System 32 – Cortez Hills Metallic Ore Overland Conveying System

- S 2.034 Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
- S 2.035 Overland Conveyor #1 transfer of Metallic Ore to Overland Conveyor #2
- S 2.036 Overland Conveyor #2 transfer of Metallic Ore to Overland Conveyor #3
- S 2.037 Overland Conveyor #3 transfer of Metallic Ore to Overland Conveyor #4
- S 2.038 Overland Conveyor #4 transfer of Metallic Ore to Stacker Conveyor (Conveyor #2 in System 2)



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AP. System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32

- S 2.034A Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
- PF 1.093 Overland Conveyor #1 transfer of Metallic Ore to Metallic Ore Bypass Stockpile

AQ. System 33 – Cortez Underground Backfill Plant – Aggregate Transfers

- PF 1.094 Loader transfer of Aggregate to Feed Conveyor with Hopper
- PF 1.095 Feed Conveyor transfer of Aggregate to Conveyor
- PF 1.096 Conveyor transfer of Aggregate to Batch Mixer

AR. System 34 – Cortez Underground Backfill Plant – Cement Transfers

- S 2.039 Cement Silo pneumatic loading
- PF 1.097 Cement Silo unloading to Cement Auger
- PF 1.098 Cement Auger transfer to Batch Mixer

AS. System 35 – Cortez Hills Portable Aggregate Crushing System – Primary Crusher

- PF 1.099 Loader transfer of Aggregate to Primary Crusher Pocket
- PF 1.100 Primary Crusher Pocket transfer of Aggregate to Primary Crusher
- PF 1.101 Conveyor 2 (Recycle) transfer of Aggregate to Primary Crusher
- PF 1.102 Primary Crusher
- PF 1.103 Primary Crusher transfer to Conveyor 1

AT. System 36 – Cortez Hills Portable Aggregate Crushing System – Screen

- PF 1.104 Conveyor 1 transfer of Aggregate to Screen
- PF 1.105 Screen
- PF 1.106 Screen transfer of Aggregate to Conveyor 2
- PF 1.107 Screen transfer of Aggregate to Conveyor 3

AU. System 37 – Cortez Hills Portable Aggregate Crushing System – Cone Crusher

- PF 1.108 Conveyor 3 transfer of Aggregate to Cone Crusher
- PF 1.109 Cone Crusher
- PF 1.110 Cone Crusher transfer of Aggregate to Conveyor 4

AV. System 38 – Cortez Hills Portable Aggregate Crushing System – Stockpile

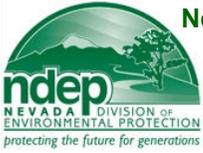
- PF 1.111 Conveyor 4 transfer of Aggregate to Aggregate Stockpile

AW. System 39 – Cortez Mill Soil Remediation

- S 2.040 1.5 MMBtu/hr Soil Therm Thermal/Catalytic Oxidizer Soil Vapor Extraction Unit
- S 2.041 1.5 MMBtu/hr Soil Therm Thermal/Catalytic Oxidizer Soil Vapor Extraction Unit

AX. System 40 – Cortez Mill Groundwater Remediation

- PF 1.112 Shallow Tray Groundwater Air Stripper, 50 GPM Water Flow



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AY. System 41 – Cortez Hills Main Batch Plant – Aggregate Transfers

- PF 1.113 Loading of Aggregate to Coarse Aggregate Bin
- PF 1.114 Coarse Aggregate Bin discharge to Coarse Aggregate Conveyor
- PF 1.115 Coarse Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
- PF 1.116 Loading of Aggregate to Fine Aggregate Bin
- PF 1.117 Fine Aggregate Bin discharge to Fine Aggregate Conveyor
- PF 1.118 Fine Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
- PF 1.119 Loading of Aggregate to Shotcrete Aggregate Bin
- PF 1.120 Shotcrete Aggregate Bin discharge to Shotcrete Aggregate Conveyor
- PF 1.121 Shotcrete Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
- PF 1.122 Aggregate Weigh Hopper Feed Conveyor transfer to Aggregate Weigh Hopper
- PF 1.123 Aggregate Weigh Hopper discharge to Mixer Feed Conveyor
- PF 1.124 Mixer Feed Conveyor transfer of Aggregate to Mixer

AZ. System 42 – Cortez Hills Main Batch Plant – Silo Transfers

- S 2.042 Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
- PF 1.125 Silo #1 unloading to Cement Batcher #1
- S 2.043 Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2
- PF 1.126 Silo #2 unloading to Cement Batcher #2

BA. System 43 – Cortez Hills Back-Up Batch Plant – Aggregate Transfers

- PF 1.127 Loading of Aggregate to Aggregate Bin
- PF 1.128 Aggregate Bin discharge to Aggregate Conveyor

BB. System 44 – Cortez Hills Back-Up Batch Plant – Silo Loading

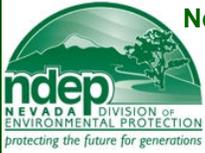
- S 2.044 Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
- S 2.045 Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2

BC. System 45 – Cortez Hills Back-Up Batch Plant – Central Mixer Loading

- PF 1.129 Central Mixer Loading

BD. System 46 – Cortez Hills Metal Removal Plant – Metallic Ore Transfers

- PF 1.130 Loading of Metallic Ore to Feed Hopper
- PF 1.131 Feed Hopper discharge to Conveyor #1
- PF 1.132 Conveyor #1 transfer to Conveyor #2
- PF 1.133 Conveyor #2 transfer to Metallic Ore Stockpile



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Section I. General Conditions

A. Nevada Administrative Code (NAC) 445B.315.3.c, Part 70 Program

Severability

Each of the conditions and requirements of this Operating Permit is severable and, if any are held invalid, the remaining conditions and requirements continue in effect.

B. Nevada Revised Statute (NRS) 445B.470.1 (State Only Requirement)

Prohibited Acts

The Permittee shall not knowingly:

1. Violate any applicable provision, the terms or conditions of any permit or any provision for the filing of information;
2. Fail to pay any fee;
3. Falsify any material statement, representation or certification in any notice or report; or
4. Render inaccurate any monitoring device or method, required pursuant to the provisions of NRS 445B.100 to 445B.450, inclusive, or NRS 445B.470 to 445B.640, inclusive, or any regulation adopted pursuant to those provisions.

C. NAC 445B.22013 (State Only Requirement)

Prohibited Discharge

The Permittee shall not cause or permit the discharge into the atmosphere from any stationary source of any hazardous air pollutant or toxic regulated air pollutant that threatens the health and safety of the general public, as determined by the Director.

D. NAC 445B.225 (Federally Enforceable SIP Requirement)

Prohibited Conduct: Concealment of Emissions

The Permittee shall not install, construct, or use any device which conceals any emission without reducing the total release of regulated air pollutants to the atmosphere.

E. NAC 445B.315.3.d Part 70 Program

Compliance/Noncompliance

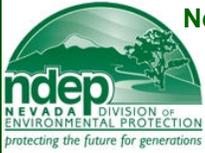
The Permittee shall comply with all conditions of this Operating Permit. Any noncompliance constitutes a violation and is grounds for:

1. An action for noncompliance;
2. Modifying, revoking, reopening and revising, or terminating the Operating Permit; or
3. Denial of an application for a renewal of the Operating Permit.

F. NAC 445B.273.1 (State Only Requirement)

Schedules for Compliance

The Permittee shall comply with NAC 445B.001 through 445B.3497, inclusive. Existing stationary sources are in compliance with those sections and may continue to operate under the provisions of their approved compliance schedules, which may be amended from time to time.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

G. NAC 445B.326.1 Part 70 Program

Assertion of Emergency as Affirmative Defense to Action for Noncompliance

The Permittee may assert an affirmative defense to an action brought for noncompliance with a technology-based emission limitation contained in the Operating Permit if the holder of the Operating Permit demonstrates through signed, contemporaneous operating logs or other relevant evidence that:

1. An emergency occurred as defined in NAC 445B.056, and the holder of the Operating Permit can identify the cause of the emergency;
2. The facility was being properly operated at the time of the emergency;
3. During the emergency, the holder of the Operating Permit took all reasonable steps to minimize excess emissions; and
4. The holder of the Operating Permit submitted notice of the emergency to the Director within 2 working days after the emergency. The notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken to restore the normal operation of the facility.

H. NAC 445B.315.3.e Part 70 Program

The need to halt or reduce activity to maintain compliance with the conditions of this Operating Permit is not a defense to noncompliance with any conditions of this Operating Permit.

I. NAC 445B.315.3.f Part 70 Program

The Director may revise, revoke and reissue, reopen and revise, or terminate the operating permit for cause.

J. NAC 445B.325 Part 70 Program

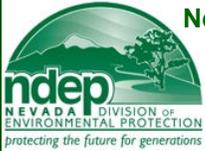
Termination, reopening and revision, modification, and revocation and reissuance

1. A Class I operating permit must be reopened and revised to incorporate any additional applicable requirement adopted pursuant to the Act if, on the effective date of the applicable requirement, the operating permit has a remaining term of 3 or more years. The reopening must be completed no later than 18 months after the effective date of the applicable requirement.
2. An operating permit may be terminated, reopened and revised, modified, or revoked and reissued if:
 - a. The Director or the Administrator determines that the operating permit contains a material mistake or is based on inaccurate statements;
 - b. The Director or the Administrator determines that the operating permit, as written, does not ensure compliance with all applicable requirements; or
 - c. The Director determines that there has been a violation of any of the provisions of NAC 445B.001 to 445B.3497, inclusive, any applicable requirement, or any condition contained in the operating permit.

K. NAC 445B.3265 (State Only Requirement)

Revocation and reissuance

1. NAC 445B. 3265.1. The Permittee's operating permit may be revoked if the control equipment is not operating.
2. NAC 445B.3265.2. The Permittee's operating permit may be revoked by the Director upon determination that there has been a violation of NAC 445B.001 to 445B.3497, inclusive, or the provisions of 40 CFR Part 52.21, or 40 CFR Part 60 or 61, Prevention of Significant Deterioration, New Source Performance Standards, and National Emission Standards for Hazardous Air Pollutants adopted by reference in NAC 445B.221.
3. NAC 445B.3265.3. -The revocation is effective 10 days after the service of a written notice, unless a hearing is requested.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

L. SIP 445.715 (*Federally Enforceable SIP Requirement*)

Operating Permits: Revocation

1. The Permittee's operating permit may be revoked if the control equipment is not operating.
2. The Permittee's operating permit can be revoked by the Director upon determination that there has been a violation of SIP 445.430 to 445.846, inclusive, or 40 CFR Parts 60 or 61, New Source Performance Standards and National Emissions Standards for Hazardous Air Pollutants.
3. The revocation is effective 10 days after the service of a written notice, and the revoked operating permit shall be surrendered immediately unless a hearing is requested.

M. NAC 445B.315.3.g *Part 70 Program*

This Operating Permit does not convey any property rights or any exclusive privilege.

N. NAC 445B.315.3.h *Part 70 Program*

The Permittee shall provide the Director, within a reasonable time, with any information that the Director requests in writing to determine whether cause exists for modifying, revoking and reissuing, reopening and revising or terminating this Operating Permit or to determine compliance with the conditions of this Operating Permit.

O. NAC 445B.315.3.i *Part 70 Program*

The Permittee shall pay fees to the Bureau of Air Pollution Control in accordance with the provisions set forth in NAC 445B.327 and 445B.331.

P. NAC 445B.315.3.j *Part 70 Program*

Right to Entry

The Permittee shall allow the Bureau of Air Pollution Control staff, upon the presentation of credentials, to:

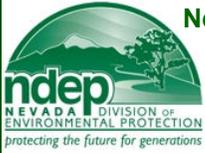
1. Enter upon the premises of the Permittee where:
 - a. The stationary source is located;
 - b. Activity related to emissions is conducted; or
 - c. Records are kept pursuant to the conditions of this Operating Permit.
2. Have access to and copy, during normal business hours, any records that are kept pursuant to the conditions of this Operating Permit;
3. Inspect, at reasonable times, any facilities, practices, operations, or equipment, including any equipment for monitoring or controlling air pollution, that are regulated or required pursuant to this Operating Permit; and
4. Sample or monitor, at reasonable times, substances or parameters to determine compliance with the conditions of this Operating Permit or applicable requirements.

Q. NAC 445B.315.3.k *Part 70 Program*

A responsible official of the Permittee shall certify that, based on information and belief formed after reasonable inquiry, the statements made in any document required to be submitted by any condition of this Operating Permit are true, accurate and complete.

R. 40 CFR 52.21(r)(4) (*Federally Enforceable PSD Program*)

At such time that the Permittee becomes a major stationary source or major modification solely by virtue of a relaxation in any enforceable limitation which was established after August 7, 1980, on the capacity of the source or modification otherwise to emit a pollutant, such as a restriction on hours of operation, then the requirements of 40 CFR Part 52.21 paragraphs (j) through (s) of this section shall apply to the source or modification as though construction had not yet commenced on the source or modification.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

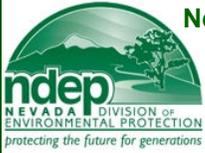
Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

S. NAC 445B.252 (State Only Requirement)

Testing and Sampling

1. To determine compliance with NAC 445B.001 to 445B.3497, inclusive, before the approval or the continuance of an Operating Permit or similar class of permits, the Director may either conduct or order the owner of any stationary source to conduct or have conducted such testing and sampling as the Director determines necessary. Testing and/or sampling must be conducted and the results submitted to the Director within 60 days after achieving the maximum rate of production at which the affected facility will be operated, but not later than 180 days after initial startup of the facility and at such times as may be required by the Director.
2. Tests of performance must be conducted and data reduced in accordance with the methods and procedures of the test contained in each applicable subsection of this section unless the Director:
 - a. Specifies or approves, in specific cases, the use of a method of reference with minor changes in methodology;
 - b. Approves the use of an equivalent method;
 - c. Approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific stationary source is in compliance; or
 - d. Waives the requirement for tests of performance because the owner or operator of a stationary source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.
3. Tests of performance must be conducted under such conditions as the Director specifies to the operator of the plant based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the test of performance. Operations during periods of startup, shutdown, and malfunction must not constitute representative conditions of a test of performance unless otherwise specified in the applicable standard.
4. The owner or operator of an affected facility shall give notice to the Director 30 days before the test of performance to allow the Director to have an observer present. A written testing procedure for the test of performance must be submitted to the Director at least 30 days before the test of performance to allow the Director to review the proposed testing procedures.
5. Each test of performance must consist of at least three separate runs using the applicable method for that test. Each run must be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than three valid samples being obtained, compliance may be determined using the arithmetic mean of the results of the other two runs upon the Director's approval.
6. All testing and sampling will be performed in accordance with recognized methods as specified by the Director.
7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the Director must be provided and paid for by the owner of the stationary source.
8. All information and analytical results of testing and sampling must be certified as to their truth and accuracy and as to their compliance with all provisions of these regulations, and copies of these results must be provided to the Director no later than 60 days after the testing or sampling, or both.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

T. SIP 445.682 (*Federally Enforceable SIP Requirement*)

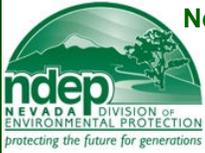
Testing and Sampling

1. To determine compliance with SIP 445.430 to 445.846, inclusive, prior to approval of or prior to the continuance of an operating permit or similar class of permits, the Director may either conduct or order the owner of any source to conduct or have conducted such testing and sampling as the Director determines necessary. Testing and/or sampling must be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Director.
2. Performance tests must be conducted and data reduced in accordance with the test methods and procedures contained in each applicable subpart unless the Director:
 - a. Specifies or approves, in specific cases, the use of a reference method with minor changes in methodology;
 - b. Approves the use of an equivalent method;
 - c. Approves the use of an alternative method, the results of which he has determined to be adequate for indicating whether a specific source is in compliance; or
 - d. Waives the requirement for performance tests because the owner or operator of a source has demonstrated by other means to the Director's satisfaction that the affected facility is in compliance with the standard.
3. Performance tests shall be conducted under such conditions as the Director shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Director such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown and malfunction must not constitute representative conditions of performance tests unless otherwise specified in the applicable standard.
4. The owner or operator of an affected facility shall provide the Director 30 days' prior notice of the performance test to afford the Director the opportunity to have an observer present.
5. Each performance test shall consist of at least three separate runs using the applicable test method. Each run shall be conducted for the time and under the conditions specified in the applicable standard. For the purpose of determining compliance with an applicable standard, the arithmetic means of results of the runs shall apply. In the event of forced shutdown, failure of an irreplaceable portion of the sampling train, extreme meteorological conditions, or other circumstances with less than two valid samples being obtained, an additional performance test must be conducted.
6. All testing and sampling will be performed in accordance with recognized methods as specified by the Director.
7. The cost of all testing and sampling and the cost of all sampling holes, scaffolding, electric power, and other pertinent allied facilities as may be required and specified in writing by the Director shall be provided and paid for by the owner of the source.
8. All information and analytical results of testing and sampling shall be certified as to their truth and accuracy and as to their compliance with all provisions of these (SIP) regulations and copies of these results must be provided to both the owner and Director.

U. NAC 445B.22067 (*Federally Enforceable SIP Requirement*)

Open Burning

1. The open burning of any combustible refuse, waste, garbage, oil, or for any salvage operations, except as specifically exempted, is prohibited.
2. Specific exemptions from open burning are described in NAC 445B.22067.2.
3. All open burning shall be attended and controlled at all times to eliminate fire hazards.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section I. General Conditions (continued)

V. NAC 445B.22017 (*Federally Enforceable SIP Requirement*)

Visible Emissions: Maximum Opacity, Determination and Monitoring of Opacity.

1. Except as otherwise provided in this section and NAC 445B.2202, no owner or operator may cause or permit the discharge into the atmosphere from any emission unit which is of an opacity equal to or greater than 20 percent. Opacity must be determined by one of the following methods:
 - a. If opacity is determined by a visual measurement, it must be determined as set forth in Reference Method 9 in Appendix A of 40 C.F.R. Part 60.
 - b. If a source uses a continuous monitoring system for the measurement of opacity, the data must be reduced to 6-minute averages as set forth in 40 C.F.R. §§ 60.13(h).
2. The provisions of this section and NAC 445B.2202 do not apply to that part of the opacity that consists of uncombined water. The burden of proof to establish the application of this exemption is upon the person seeking to come within the exemption.
3. If the provisions of 40 CFR Part 60, Subpart D or Da apply to an emission unit, the emission unit shall be allowed one 6-minute period per hour of not more than 27 percent opacity as set forth in 40 CFR § 60.42(a)(2) AND 40 CFR § 60.42a(b).
4. The continuous monitoring system for monitoring opacity at a facility shall be operated and maintained by the owner or operator specified in the permit for the facility in accordance with NAC 445B.256 to 445B.267, inclusive.

W. NAC 445B.22087 (*State Only Requirement*)

Odors

The Permittee may not discharge or cause to be discharged, from any stationary source, any material or regulated air pollutant which is or tends to be offensive to the senses, injurious or detrimental to health and safety, or which in any way interferes with or prevents comfortable enjoyment of life or property.

X. NAC 445B.319, 445B.342, 445B.3425 and 445B.344 *Part 70 Program*

Any changes to this Operating Permit will comply with all provisions established under NAC 445B.319, 445B.342, 445B.3425 and 445B.344.

Y. NAC 445B.3443 *Part 70 Program*

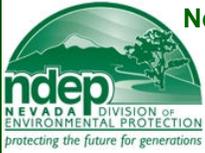
Renewal of this Operating Permit will be in accordance with NAC 445B.3443.

Z. NAC 445B.22037 (*Federally Enforceable SIP Requirement*)

Emissions of Particulate Matter: Fugitive Dust

1. The Permittee may not cause or permit the handling, transporting, or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
2. Except as otherwise provided in subsection 4, the Permittee may not cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction, and revegetation.
3. Except as provided in subsection 4, the Permittee may not disturb or cover 5 acres or more of land or its topsoil until The Permittee has obtained an Operating Permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
4. The provisions of subsections 2 and 3 do not apply to:
 - a. Agricultural activities occurring on agricultural land; or
 - b. Surface disturbances authorized by a permit issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

*******End of General Conditions*******



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section II. General Construction Conditions

The following provisions apply to PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.092 – PF1.099, PF1.111, PF113 – PF1.129, S2.018g, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045:

A. NAC 445B.250 (*State Only Requirement*)

Notification

The Director will be notified in writing of the following:

1. The date construction (or reconstruction as defined under NAC 445B.247) of the affected facility is commenced, postmarked no later than 30 days after such date.
2. The anticipated date of initial startup of an affected facility, postmarked no more than 60 days and no less than 30 days prior to such date.
3. The actual date of initial startup of the affected facility, postmarked within 15 days after such date.

B. SIP Article 2.16 (*Federally Enforceable SIP Requirement*)

Notification and Record keeping

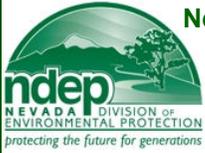
1. Any owner or operator subject to the provisions of this part shall furnish the Director written notification as follows: (SIP Article 2.16.1)
2. SIP Article 2.16.1.1 - A notification of the date construction (or reconstruction as defined under 2.15) of an affected facility is commenced postmarked no later than 30 days after such date. This requirement shall not apply in the case of mass-produced facilities which are purchased in completed form.
3. SIP Article 2.16.1.2 - A notification of the anticipated date of initial startup of an affected facility postmarked no more than 60 days and no less than 30 days prior to such date.
4. SIP Article 2.16.1.3 - A notification of the actual date of initial startup of an affected facility postmarked within 15 days after such date.

C. NAC 445B.3366 *Part 70 Program*

Expiration

This Operating Permit expires if construction is not commenced within 18 months after the date of issuance thereof or construction of the facility is delayed for 18 months after initiated.

*******End of General Construction Conditions*******



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions

J. **Emission Units S2.002 – S2.003** Location North 4,456.91 km, East 523.98 km, UTM (Zone 11, NAD 83)

System 8 – Pipeline Refinery Induction Furnaces		
S	2.002	Refinery Induction Furnace #1 (mfd by Inducto Therm, mdl# VIP Power Trak-R)
S	2.003	Refinery Induction Furnace #2 (mfd by Inducto Therm, mdl# VIP Power Trak-R)

1. NAC 445B.3405 (NAC 445B.316) Part 70 Program
Air Pollution Control Equipment

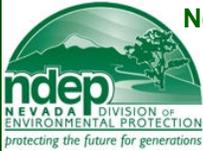
Emissions from **S2.002 - S2.003** shall be ducted to a primary control system consisting of a baghouse with 100% capture. The emissions from the primary control are ducted to a control system consisting of a carbon filter (sulfur impregnated carbon) with 100% capture and a maximum volume flow rate of 1,700 dry standard cubic feet per minute (dscfm), followed by ducting to the outside atmosphere. The volumetric flow rate may be determined by utilizing Method 2 - *Determination of Stack Gas Velocity and Volumetric Flow Rate* as referenced in 40 CFR Part 60, Appendix A.

Stack height – 65 feet Stack inside diameter – 7.5 inches Nominal Stack temperature – 120 °F

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program
Performance/Compliance Testing

Within 180 days of issuance of this revised operating permit, Permittee shall determine compliance with the emission limit standards and the opacity standards established in Section VI.J.2 of this operating permit:

- a. Conduct and record the following performance tests on the exhaust stack of the baghouse consisting of three valid runs at the maximum throughput rate subject Section VI.J.3.a. of this operating permit.
 - (1) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM₁₀.
 - (2) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
- b. The Method 201A and Method 202 tests required in J.2.a(1) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM₁₀ emissions for determination of compliance with the emission limitations established in Section VI.J.2 of this operating permit.
- c. Performance tests required under J.2.a of this section that are conducted below the maximum allowable throughput, as established in VI.J.3.a. of this operating permit, shall be subject to the director’s review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
- d. Conduct and record a Method 9 visible emissions reading on the exhaust stack of the baghouse concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
- e. Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
- f. The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

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Section IIA. Specific Construction Conditions (continued)

C. **Emission Unit PF1.013** Location North 4,456.73 km, East 523.94 km, UTM (Zone 11, NAD 83)

System 3 – Pipeline Metallic Ore Transfers		
PF	1.013	Emergency Apron Feeder transfer of Metallic Ore to 42"x650' Conveyor #3

AO. **Emission Unit S2.034** Location North 4,447.32 km, East 532.87 km, UTM (Zone 11, NAD 83)

Emission Unit S2.035 Location North 4,456.73 km, East 526.48 km, UTM (Zone 11, NAD 83)

Emission Unit S2.036 Location North 4,455.66 km, East 525.10 km, UTM (Zone 11, NAD 83)

Emission Unit S2.037 Location North 4,456.33 km, East 524.80 km, UTM (Zone 11, NAD 83)

Emission Unit S2.038 Location North 4,456.79 km, East 524.14 km, UTM (Zone 11, NAD 83)

System 32 – Cortez Hills Metallic Ore Overland Conveying System		
S	2.034	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1
S	2.035	Overland Conveyor #1 transfer of Metallic Ore to Overland Conveyor #2
S	2.036	Overland Conveyor #2 transfer of Metallic Ore to Overland Conveyor #3
S	2.037	Overland Conveyor #3 transfer of Metallic Ore to Overland Conveyor #4
S	2.038	Overland Conveyor #4 transfer of Metallic Ore to Stacker Conveyor (Conveyor #2 in System 2)

AP. **Emission Unit S2.034A** Location North 4,447.32 km, East 532.87 km, UTM (Zone 11, NAD 83)

System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32		
S	2.034A	Discharge Conveyor #2 transfer of Metallic Ore to Overland Conveyor #1

BD. **Emission Units PF1.130 – PF1.133** Location North 4,448.90 km, East 532.23 km, UTM (Zone 11, NAD 83)

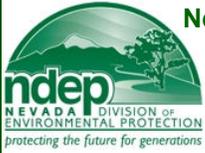
System 45 – Cortez Hills Metal Removal Plant - Metallic Ore Transfers		
PF	1.130	Loading of Metallic Ore to Feed Hopper
PF	1.131	Feed Hopper discharge to Conveyor #1
PF	1.132	Conveyor #1 transfer to Conveyor #2
PF	1.133	Conveyor #2 transfer to Metallic Ore Stockpile

- NAC 445B.3405 (NAC 445B.316) *Part 70 Program*
Air Pollution Control Equipment

Transfer point for emission unit **PF1.013** is located underneath the **Metallic Ore Stockpile (System 2)**. Emissions from **PF1.013** are controlled by the ore material containing at least **4% moisture**. The metallic ore material must be sampled twice per shift during operations, sampled at the **Apron Feeder transfer point to Conveyor #3**, and analyzed for moisture content.

Emissions from **S2.034 – S2.038 and S2.034A** each, are controlled by a **dust collector** with 100% capture and a maximum volume flow rate of 1,511 dry standard cubic feet per minute (dscfm).

Emissions from **PF1.130 - PF1.133** are controlled by best operating practices.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

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GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

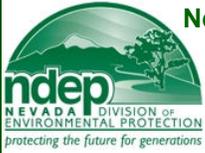
Emission Units PF1.013, PF1.130 – PF1.133, S2.034 – S2.038, and S2.034A - continued

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252; 40 CFR Part 60.386(b)(2) *Part 70 Program*
Performance/Compliance Testing
 - a. Within 60 days after achieving the maximum production rate at which **PF1.013, PF1.130 – PF1.133, S2.034 – S2.038, and S2.034A** will be operated, but no later than 180 days after initial startup of **PF1.013, PF1.130 – PF1.133, S2.034 – S2.038, and S2.034A**, Permittee shall demonstrate initial compliance with the opacity standards established in Sections VI.C.2, VI.AO.2, and VI.AP.2 of this operating permit in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be 3 hours (30 6-minute averages). The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed. (40 CFR Part 60.11(b), 60.11(e)(1))
 - b. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in 2.a of this section. The notification shall be postmarked not less than 30 days prior to such date. (40 CFR Part 60.7(a)(6))
 - c. Within 60 days after completing the opacity observations contained in 2.a of this section, Permittee shall furnish the director a written report of the results of the opacity observations required in 2.a of this section. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3791, inclusive. (NAC 445B.252.8)

3. NAC 445B.3405 (NAC 445B.316); 40 CFR Part 60.7; NAC 445B.250 *Part 70 Program*
Notification and Recordkeeping

Permittee shall provide the director the following:

 - a. A notification of the date construction of **PF1.013, PF1.130 – PF1.133, S2.034 – S2.038, and S2.034A** is commenced postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form. (40 CFR Part 60.7(a)(1); NAC 445B.250.1)
 - b. A notification of the anticipated date of initial startup of **PF1.013, PF1.130 – PF1.133, S2.034 – S2.038, and S2.034A** postmarked not more than 60 days nor less than 30 days prior to such date. (40 CFR Part 60.7(a)(2); NAC 445B.250.2)
 - c. A notification of the actual date of initial startup of **PF1.013, PF1.130 – PF1.133, S2.034 – S2.038, and S2.034A** postmarked within 15 days after such date. (40 CFR Part 60.7(a)(3); NAC 445B.250.3)



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS

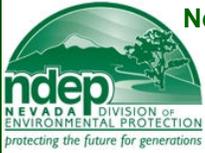
Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

AN. Emission Units S2.028 – S2.033 Location North 4,447.28 km, East 532.86 km, UTM (Zone 11, NAD 83)

Table with 3 columns: ID, Unit, and Description. Rows include S 2.028 (Loader transfer), S 2.029 (Jaw Crusher Dump Pocket transfer), S 2.030 (Jaw Crusher), S 2.031 (Jaw Crusher transfer), S 2.032 (Apron Feeder transfer), and S 2.033 (Discharge Conveyor #1 transfer).

- 1. NAC 445B.3405 (NAC 445B.316) Part 70 Program Air Pollution Control Equipment. Emissions from S2.028 – S2.033 shall be controlled by a baghouse with 100% capture and a maximum volume flow rate of 37,397 dry standard cubic feet per minute (dscfm). Stack height – 50 feet, Stack inside diameter – 3.67 feet, Stack temperature – ambient.
2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252; 40 CFR Part 60.386(b)(2) Part 70 Program Performance/Compliance Testing. Within 60 days after achieving the maximum production rate at which S2.028 – S2.033 will be operated, but no later than 180 days after initial startup of the facility, Permittee shall determine initial compliance with the emission limit standards and the opacity standards established in Section VI.AN.2 of this operating permit by conducting performance tests on the exhaust stack of the baghouse as follows:
a. Conduct and record the following performance tests on the exhaust stack of the baghouse consisting of three valid runs at the maximum throughput rate subject Section VI.AN.3.a. of this operating permit.
(1) A Method 201A and Method 202 test in accordance with 40 CFR Part 51, Appendix M (or an alternative EPA reference method approved by the director) for PM10.
(2) A Method 5 test with back-half catch in accordance with 40 CFR Part 60, Appendix A (or an alternative EPA reference method approved by the director) for PM.
b. The Method 201A and Method 202 tests required in AN.2.a(1) of this section may be replaced by a Method 5 test which includes the back-half catch. All particulate captured in the Method 5 tests with back-half performed under this provision shall be considered PM10 emissions for determination of compliance with the emission limitations established in Section VI.AN.2 of this operating permit.
c. Performance tests required under AN.2.a of this section that are conducted below the maximum allowable throughput, as established in VI.AN.3.a. of this operating permit, shall be subject to the director’s review to determine if the throughput during the performance tests were sufficient to provide adequate compliance demonstration. Should the director determine that the performance tests do not provide adequate compliance demonstration then the director may order additional performance testing for the purpose of a compliance demonstration.
d. Conduct and record a Method 9 visible emissions reading on the exhaust stack of baghouse and carbon bed filter control system concurrent with one of the three required Method 5 or Method 201A and Method 202 performance tests. Visible emissions reading shall use the procedures contained in 40 CFR Part 60, Appendix A, Method 9. The visible emissions reading must be conducted by a certified visible emissions reader for a period of 6-minutes. The opacity readings must be averaged such that compliance with a 6-minute average is determined.
e. Tests of performance and visible emissions readings must be conducted under such conditions as the director specifies to the permittee based on representative performance of the affected facility. The permittee shall make available to the director such records as may be necessary to determine the conditions of the tests of performance and visible emissions readings. Operations during periods of start-up, shutdown and malfunction must not constitute representative conditions of tests of performance and visible emissions readings unless otherwise specified in the application standard (NAC 445B.252.3).
f. The permittee shall give notice to the director 30 days before the tests of performance and visible emissions readings to allow the director to have an observer present. A written testing procedure for the tests of performance and visible emissions reading must be submitted to the director at least 30 days before the tests of performance and visible emissions readings to allow the director to review the proposed testing procedures (NAC.445B.252.4).



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

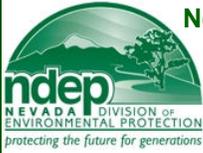
Emission Units S2.028 – S2.033 - continued

3. NAC 445B.3405 (NAC 445B.316); 40 CFR Part 60.7; NAC 445B.250 Part 70 Program

Notification and Recordkeeping

Permittee shall provide the director the following:

- a. A notification of the date construction of **S2.028 – S2.033** is commenced postmarked no later than 30 days after such date. This requirement shall not apply to mass-produced facilities which are purchased in completed form. (40 CFR Part 60.7(a)(1); NAC 445B.250.1)
- b. A notification of the anticipated date of initial startup of **S2.028 – S2.033** postmarked not more than 60 days nor less than 30 days prior to such date. (40 CFR Part 60.7(a)(2); NAC 445B.250.2)
- c. A notification of the actual date of initial startup of **S2.028 – S2.033** postmarked within 15 days after such date. (40 CFR Part 60.7(a)(3); NAC 445B.250.3)



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

Y. Emission Units S2.020 & PF1.052 – PF1.054 Location North 4,456.54 km, East 524.47 km, UTM (Zone 11, NAD 83)

System 18A – Pipeline A28 Heap Leach Lime Silo, Alternate Loading Scenario to System 18		
PF	1.052	A28 Truck Dump transfer to A28 Truck Dump Pocket
PF	1.053	A28 Truck Dump Pocket transfer to A28 Conveyor #1
PF	1.054	A28 Conveyor #1 transfer to A28 Bucket Elevator
S	2.020	A28 Bucket Elevator transfer to A28 Heap Leach Lime Silo

AA. Emission Units S2.022 & PF1.058 – PF1.060 Location North 4,453.96 km, East 524.30 km, UTM (Zone 11, NAD 83)

System 19A – Pipeline A30 Heap Leach Lime Silo, Alternate Loading Scenario to System 19		
PF	1.058	A30 Truck Dump transfer to A30 Truck Dump Pocket
PF	1.059	A30 Truck Dump Pocket transfer to A30 Conveyor #1
PF	1.060	A30 Conveyor #1 transfer to A30 Bucket Elevator
S	2.022	A30 Bucket Elevator transfer to A30 Heap Leach Lime Silo

AC. Emission Units PF1.062 – PF1.071 Location North 4,449.72 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 21 – Cortez Mill Primary Metallic Ore Crushing System		
PF	1.062	Loader transfer of Metallic Ore to 50 Ton Ore Bin
PF	1.063	50 Ton Ore Bin transfer of Metallic Ore to Hydrastoke Feeder
PF	1.064	Hydrastoke Feeder transfer of Metallic Ore to Jaw Crusher
PF	1.065	Jaw Crusher (mfd by BLH, mdl# 42"x48", s/n 424808)
PF	1.066	Jaw Crusher transfer of Metallic Ore to Conveyor #1
PF	1.067	Conveyor #1 transfer of Metallic Ore to Conveyor #2
PF	1.068	Conveyor #2 transfer of Metallic Ore to Vibrating Screen
PF	1.069	Vibrating Screen
PF	1.070	Vibrating Screen transfer of oversize Metallic Ore to Cone Crusher
PF	1.071	Vibrating Screen transfer of undersize Metallic Ore to Conveyor #3A

AD. Emission Units PF1.072 – PF1.073 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

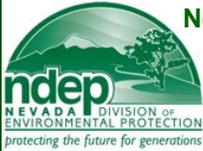
System 22 – Cortez Mill Secondary Metallic Ore Crushing System		
PF	1.072	Cone Crusher
PF	1.073	Cone Crusher transfer of Metallic Ore to Conveyor #1

AE. Emission Units PF1.074 – PF1.077 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 23 – Cortez Mill Metallic Ore Transfers		
PF	1.074	Conveyor #3a transfer of Metallic Ore to Conveyor #3
PF	1.075	Conveyor #3 transfer of Metallic Ore to Crushed CIL Ore Stockpile
PF	1.076	Crushed CIL Ore Stockpile transfer of Metallic Ore to Conveyor #4A
PF	1.077	Conveyor #4A transfer of Metallic Ore to Conveyor #4B

AF. Emission Units PF1.077A, PF1.078 – PF1.079 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 23A – Cortez Mill Metallic Ore Transfers, Alternate Operating Scenario to System 23		
PF	1.078	Loader transfer of Metallic Ore to 20 Ton Ore Bin
PF	1.079	20 Ton Ore Bin transfer of Metallic Ore to Conveyor #4A
PF	1.077A	Conveyor #4A transfer of Metallic Ore to Conveyor #4B



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.077A, PF1.092 – PF1.099, PF1.111, PF1.113 – PF1.129, S2.020, S2.022, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045 - continued

AG. Emission Unit PF1.080 Location North 4,449.73 km, East 532.67 km, UTM (Zone 11, NAD 83)

System 24 – Cortez Mill Metallic Ore Transfer		
PF	1.080	Conveyor #4B transfer of Metallic Ore to Rod Mill

AH. Emission Units S2.024 & PF1.081–PF1.082 Location North 4,449.81 km, East 532.56 km, UTM (Zone 11, NAD 83)

System 25 – Cortez Mill CIP Lime Silo		
S	2.024	CIP Lime Silo pneumatic loading
PF	1.081	CIP Lime Silo unloading to Lime Grinding Mill via enclosed Screw Conveyor
PF	1.082	Lime Grinding Mill transfer to Rod Mill

AI. Emission Units PF1.083 – PF1.086 Location North 4,449.84 km, East 532.59 km, UTM (Zone 11, NAD 83)

System 26 – Cortez Mill Wet Crushing & Screening System		
PF	1.083	Rod Mill and transfer of Metallic Ore to Cyclones
PF	1.084	Cyclones and Metallic Ore transfer to Ball Mill (oversize) and Vibrating Screens (undersize)
PF	1.085	Vibrating Screens and Metallic Ore transfer to Ball Mill (oversize) or Surge Tank (undersize)
PF	1.086	Ball Mill and Metallic Ore transfer to Cyclones

AJ. Emission Units S2.025 & PF1.087 Location North 4,450.06 km, East 532.73 km, UTM (Zone 11, NAD 83)

System 27 – Cortez Mill 100 Ton Leach Lime Silo		
S	2.025	Leach Lime Silo pneumatic loading
PF	1.087	Leach Lime Silo unloading to Truck

AM. Emission Units S2.027 & PF1.092 Location North 4,444.99 km, East 532.85 km, UTM (Zone 11, NAD 83)

System 30 – Cortez Hills 100 Ton Leach Lime Silo		
S	2.027	Leach Lime Silo pneumatic loading
PF	1.092	Leach Lime Silo unloading to Truck

AP. Emission Unit PF1.093 Location North 4,449.05 km, East 531.23 km, UTM (Zone 11, NAD 83)

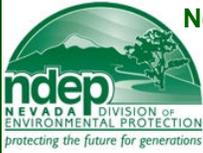
System 32A – Cortez Hills Metallic Ore Overland Conveying System, Alt Operating Scenario to System 32		
PF	1.093	Overland Conveyor #1 transfer of Metallic Ore to Metallic Ore Bypass Stockpile

AQ. Emission Units PF1.094 – PF1.096 Location North 4,448.55 km, East 532.28 km, UTM (Zone 11, NAD 83)

System 33 – Cortez Underground Backfill Plant – Aggregate Transfers		
PF	1.094	Loader transfer of Aggregate to Feed Conveyor with Hopper
PF	1.095	Feed Conveyor transfer of Aggregate to Conveyor
PF	1.096	Conveyor transfer of Aggregate to Batch Mixer

AR. Emission Units S2.039, PF1.097 – PF1.098 Location North 4,448.52 km, East 532.28 km, UTM (Zone 11, NAD 83)

System 34 – Cortez Underground Backfill Plant – Cement Transfers		
S	2.039	Cement Silo pneumatic loading
PF	1.097	Cement Silo unloading to Cement Auger
PF	1.098	Cement Auger transfer to Batch Mixer



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

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Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.077A, PF1.092 – PF1.099, PF1.111, PF1.113 – PF1.129, S2.020, S2.022, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045 - continued

AS. Emission Unit PF1.099 Location North 4,448.61 km, East 532.27 km, UTM (Zone 11, NAD 83)

System 35 – Cortez Hills Portable Aggregate Crushing System – Primary Crusher		
PF	1.099	Loader transfer of Aggregate to Primary Crusher Pocket

AV. Emission Unit PF1.111 Location North 4,448.61 km, East 532.32 km, UTM (Zone 11, NAD 83)

System 38 – Cortez Hills Portable Aggregate Crushing System – Stockpile		
PF	1.111	Conveyor 4 transfer of Aggregate to Aggregate Stockpile

AY. Emission Units PF1.113 – PF1.124 Location North 4,448.43 km, East 532.23 km, UTM (Zone 11, NAD 83)

System 41 – Cortez Hills Main Batch Plant – Aggregate Transfers		
PF	1.113	Loading of Aggregate to Coarse Aggregate Bin
PF	1.114	Coarse Aggregate Bin discharge to Coarse Aggregate Conveyor
PF	1.115	Coarse Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.116	Loading of Aggregate to Fine Aggregate Bin
PF	1.117	Fine Aggregate Bin discharge to Fine Aggregate Conveyor
PF	1.118	Fine Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.119	Loading of Aggregate to Shotcrete Aggregate Bin
PF	1.120	Shotcrete Aggregate Bin discharge to Shotcrete Aggregate Conveyor
PF	1.121	Shotcrete Aggregate Conveyor transfer to Aggregate Weigh Hopper Feed Conveyor
PF	1.122	Aggregate Weigh Hopper Feed Conveyor transfer to Aggregate Weigh Hopper
PF	1.123	Aggregate Weigh Hopper discharge to Mixer Feed Conveyor
PF	1.124	Mixer Feed Conveyor transfer of Aggregate to Mixer

AZ. Emission Units S2.042 – S2.043, PF1.125 – PF1.126
Location North 4,448.45 km, East 532.24 km, UTM (Zone 11, NAD 83)

System 42 – Cortez Hills Main Batch Plant – Silo Transfers		
S	2.042	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
PF	1.125	Silo #1 unloading to Cement Batcher #1
S	2.043	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2
PF	1.126	Silo #2 unloading to Cement Batcher #2

BA. Emission Units PF1.127 – PF1.128 Location North 4,448.55 km, East 532.20 km, UTM (Zone 11, NAD 83)

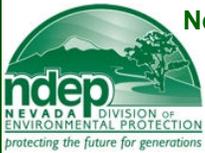
System 43 – Cortez Hills Back-Up Batch Plant – Aggregate Transfers		
PF	1.127	Loading of Aggregate to Aggregate Bin
PF	1.128	Aggregate Bin discharge to Aggregate Conveyor

BB. Emission Units S2.044 – S2.045
Location North 4,448.52 km, East 532.20 km, UTM (Zone 11, NAD 83)

System 44 – Cortez Hills Back-Up Batch Plant – Silo Loading		
S	2.044	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #1
S	2.045	Loading of Cement, Fly Ash, and/or Shotcrete to Silo #2

BC. Emission Unit PF1.129
Location North 4,448.52 km, East 532.20 km, UTM (Zone 11, NAD 83)

System 45 – Cortez Hills Back-Up Batch Plant – Central Mixer Loading		
PF	1.129	Central Mixer Loading



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: **Barrick Cortez, Inc., as Permittee**

Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.077A, PF1.092 – PF1.099, PF1.111, PF1.113 – PF1.129, S2.020, S2.022, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045 - continued

1. NAC 445B.3405 (NAC 445B.316) *Part 70 Program*

Air Pollution Control Equipment

Emissions from **S2.020** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.052 and PF1.053** shall be controlled by an **enclosure** that partially encloses this transfer point.

Emissions from **PF1.054** shall be controlled by a **full enclosure** that completely encloses this transfer point.

Emissions from **S2.022** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.058 and PF1.059** shall be controlled by an **enclosure** that partially encloses this transfer point.

Emissions from **PF1.060** shall be controlled by a **full enclosure** that completely encloses this transfer point.

Emissions from **PF1.062 - PF1.071** are controlled by the ore material containing at least **4% moisture and fogging water sprays** located at **PF1.062 – PF1.071** each. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Jaw Crusher (PF1.065, System 21)**, and analyzed for moisture content.

Emissions from **PF1.072 - PF1.073** are controlled by the ore material containing at least **4% moisture and fogging water sprays** located at **PF1.072 - PF1.073** each. The metallic ore material must be sampled twice per shift during operations, sampled upstream from the **Cone Crusher (PF1.071)**, and analyzed for moisture content.

Emissions from **PF1.074 - PF1.079, and PF1.077A** are controlled by best operating practices.

Emissions from **PF1.080** are controlled by a **full enclosure**.

Emissions from **S2.024** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.081 – PF1.082** shall be controlled by **full enclosures** that completely enclose each transfer point.

System 26 is a **wet process**. Emissions from **PF1.083 - PF1.086** are controlled by the wet mill being enclosed in a building and the ore material being saturated by water.

Emissions from **S2.025** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.087** will be controlled by a **shroud (enclosure)** that partially encloses this transfer point.

Emissions from **S2.027** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.092** will be controlled by a **shroud (enclosure)** that partially encloses this transfer point.

Emissions from **PF1.093** are controlled by best operating practices.

Emissions from **PF1.094** are controlled by best operating practices.

Emissions from **PF1.095 - PF1.096** each, are controlled by an **enclosure**.

Emissions from **S2.039** shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.097 – PF1.098** each, are controlled by an **enclosure**.

Emissions from **PF1.099 and PF1.111** are controlled by best operating practices.

Emissions from **PF1.113 - PF1.124** each, are controlled by an **enclosure**.

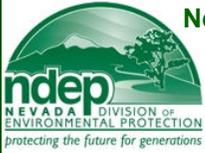
Emissions from **S2.042 – S2.043** each, shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.125 – PF1.126** each, are controlled by an **enclosure**.

Emissions from **PF1.127 - PF1.128** each, are controlled by an **enclosure**.

Emissions from **S2.044 – S2.045** each, shall be ducted to a control system consisting of a **bin vent** with 100% capture.

Emissions from **PF1.129** are controlled by an **enclosure**.



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

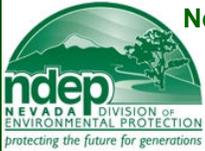
**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

Emission Units PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.077A, PF1.092 – PF1.099, PF1.111, PF1.113 – PF1.129, S2.020, S2.022, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045 - continued

2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252 Part 70 Program Performance/Compliance Testing
 - a. Within 60 days after achieving the maximum production rate at which PF1 PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.077A, PF1.092 – PF1.099, PF1.111, PF1.113 – PF1.129, S2.020, S2.022, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045 will be operated, but no later than 180 days after initial startup of PF1.052 – PF1.054, PF1.058 – PF1.060, PF1.062 – PF1.087, PF1.077A, PF1.092 – PF1.099, PF1.111, PF1.113 – PF1.129, S2.020, S2.022, S2.024, S2.025, S2.027, S2.039, and S2.042 – S2.045, Permittee shall demonstrate initial compliance with the opacity standards established in Sections VI.Y.2, VI.AA.2, VI.AC.2, and VI.AD.2, VI.AE.2, VI.AF.2, VI.AG.2, VI.AH.2, VI.AI.2, V.AJ.2, VI.AM.2, VI.AP.2, VIAQ.2, VI.AR.2, VI.AS.2, VI.AV.2, VI.AY.2, VIAZ.2, VI.BA.2, and VI.BB.2 of this operating permit in accordance with Reference Method 9 in Appendix A of 40 CFR Part 60. The minimum total time of observations shall be six minutes (24 consecutive observations recorded at 15-second intervals). The observer shall read opacity only when emissions are clearly identified as emanating solely from the affected facility being observed.
 - b. Permittee shall provide notification of the anticipated date for conducting the opacity observations required in 2.a of this section. The notification shall be postmarked not less than 30 days prior to such date.
 - c. Within 60 days after completing the opacity observations contained in 2.a of this section, Permittee shall furnish the director a written report of the results of the opacity observations required in 2.a of this section. All information and analytical results of testing and sampling must be certified as to the truth and accuracy and as to their compliance with NAC 445B.001 to 445B.3791, inclusive. (NAC 445B.252.8)



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS

Issued to: Barrick Cortez, Inc., as Permittee

Section IIA. Specific Construction Conditions (continued)

AS. Emission Units PF1.100 – PF1.103 Location North 4,448.61 km, East 532.27 km, UTM (Zone 11, NAD 83)

Table with 3 columns: PF, ID, Description. System 35 – Cortez Hills Portable Aggregate Crushing System – Primary Crusher. Rows include PF 1.100 (Primary Crusher Pocket transfer), PF 1.101 (Conveyor 2 transfer), PF 1.102 (Primary Crusher), and PF 1.103 (Primary Crusher transfer).

AT. Emission Units PF1.104 – PF1.107 Location North 4,448.61 km, East 532.28 km, UTM (Zone 11, NAD 83)

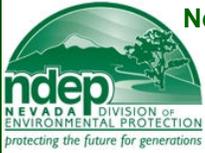
Table with 3 columns: PF, ID, Description. System 36 – Cortez Hills Portable Aggregate Crushing System – Screen. Rows include PF 1.104 (Conveyor 1 transfer), PF 1.105 (Screen), PF 1.106 (Screen transfer to Conveyor 2), and PF 1.107 (Screen transfer to Conveyor 3).

AU. Emission Units PF1.108 – PF1.110 Location North 4,448.61 km, East 532.30 km, UTM (Zone 11, NAD 83)

Table with 3 columns: PF, ID, Description. System 37 – Cortez Hills Portable Aggregate Crushing System – Cone Crusher. Rows include PF 1.108 (Conveyor 3 transfer), PF 1.109 (Cone Crusher), and PF 1.110 (Cone Crusher transfer).

- 1. NAC 445B.3405 (NAC 445B.316) Part 70 Program Air Pollution Control Equipment. Emissions from PF1.100 – PF1.110 each, are controlled by best operating practices.
2. NAC 445B.3405 (NAC 445B.316); NAC 445B.252; 40 CFR Part 60.675(c) Part 70 Program Performance/Compliance Testing. a. Within 60 days after achieving the maximum production rate... b. Permittee shall provide notification... c. Within 60 days after completing the opacity observations...
3. NAC 445B.3405 (NAC 445B.316); 40 CFR Part 60.7; NAC 445B.250 Part 70 Program Notification and Recordkeeping. Permittee shall provide the director the following: a. A notification of the date construction... b. A notification of the anticipated date of initial startup... c. A notification of the actual date of initial startup...

*****End of Specific Construction Conditions*****



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Section III. General Operating Conditions

A. NAC 445B.227 *Part 70 Program*

Facilities Operation

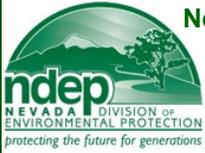
The Permittee may not:

1. Operate a stationary source of air pollution unless the control equipment for air pollution which is required by applicable requirements or conditions of this Operating Permit is installed and operating.
2. Disconnect, alter, modify or remove any of the control equipment for air pollution or modify any procedure required by an applicable requirement or condition of this Operating Permit.

B. NAC 445B.232 *(State Only Requirement)*

Excess Emissions

1. Scheduled maintenance or testing or scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.3497, inclusive, must be approved by the Director and performed during a time designated by the Director as being favorable for atmospheric ventilation.
2. The Director must be notified in writing of the time and expected duration at least 24 hours in advance of any scheduled maintenance which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.3497, inclusive.
3. The Director must be notified in writing or by telephone of the time and expected duration at least 24 hours in advance of any scheduled repairs which may result in excess emissions of regulated air pollutants prohibited by NAC 445B.001 to 445B.3497, inclusive.
4. The Director must be notified of any excess emissions within 24 hours after any malfunction or upset of the process equipment or equipment for controlling pollution or during startup or shutdown of such equipment. The telephone number for the notification is (775) 687-9350.
5. The Permittee, as the owner or operator of an affected facility, shall provide the Director, within 15 days after any malfunction, upset, startup, shutdown, or human error which results in excess emissions, sufficient information to enable the Director to determine the seriousness of the excess emissions. The information must include at least the following:
 - a. The identity of the stack or other point of emission, or both, where the excess emissions occurred.
 - b. The estimated magnitude of the excess emissions expressed in opacity or in units of the applicable limitation on emission and the operating data and methods used in estimating the magnitude of the excess emissions.
 - c. The time and duration of the excess emissions.
 - d. The identity of the equipment causing the excess emissions.
 - e. If the excess emissions were the result of a malfunction, the steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunction.
 - f. The steps taken to limit the excess emissions.
 - g. Documentation that the equipment for controlling air pollution, process equipment, or processes were at all times maintained and operated, to a maximum extent practicable, in a manner consistent with good practice for minimizing emissions.



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Facility ID No. A0001

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**CLASS I AIR QUALITY OPERATING PERMIT
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Section III. General Operating Conditions (continued)

C. SIP 445.667 (*Federally Enforceable SIP Requirement*)

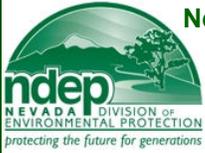
Excess Emissions: Scheduled Maintenance; Testing; Malfunctions

1. Scheduled maintenance or testing approved by the Director or repairs which may result in excess emissions of air contaminants prohibited by SIP 445.430 to 445.846, inclusive, must be performed during a time designated by the Director as being favorable for atmospheric ventilation.
2. The Director shall be notified in writing on the time and expected duration at least 24 hours in advance of any scheduled maintenance or repairs which may result in excess emissions of air contaminants prohibited by SIP 445.430 to 445.846, inclusive.
3. The Director must be notified within 24 hours after any malfunction, breakdown or upset of process or pollution control equipment or during startup of such equipment. Phone (775) 687-9350.
4. The owner or operator of an affected facility shall provide the Director, within 15 days after any malfunction, breakdown, upset, startup or human error sufficient information to enable the Director to determine the seriousness of the excess emissions. The submission must include as a minimum:
 - a. The identity of the stack and/or other emission point where the excess emission occurred.
 - b. The estimated magnitude of the excess emissions expressed in opacity or in the units of the applicable emission limitation and the operating data and methods used in estimating the magnitude of the excess emissions.
 - c. The time and duration of the excess emissions.
 - d. The identity of the equipment causing the excess emissions.
 - e. If the excess emissions were the result of a malfunction, steps taken to remedy the malfunction and the steps taken or planned to prevent the recurrence of the malfunctions.
 - f. The steps taken to limit the excess emissions.
 - g. Documentation that the air pollution control equipment, process equipment or processes were at all times maintained and operated, to a maximum extent practicable, in a manner consistent with good practice for minimizing emissions.

D. SIP Article 2.5.4 (*Federally Enforceable SIP Requirement*)

1. Breakdown or upset, determined by the Director to be unavoidable and not the result of careless or marginal operations, shall not be considered a violation of these regulations.

*******End of General Operating Conditions*******



BUREAU OF AIR POLLUTION CONTROL

Facility ID No. A0001

Permit No. AP1041-2141

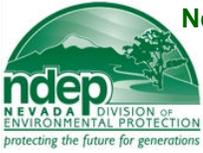
**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section IV. Federal Regulations and Applicable Requirements

- A. The following provisions are applicable requirements of this Operating Permit:
1. The Permittee will comply with all applicable provisions of:
 - a. 40 CFR Part 60.1 - 60.19 - Standards of Performance for New Stationary Sources - General Provisions;
 - b. 40 CFR Part 61.01 - 61.19 - National Emission Standards for Hazardous Air Pollutants - General Provisions;
 - c. 40 CFR Part 61.140 - 61.157 - National Emission Standard for Asbestos;
 - d. 40 CFR Part 63.1 - 63.15 - National Emission Standards for Hazardous Air Pollutants for Source Categories - General Provisions;
 - e. 40 CFR Part 70 - State Operating Permit Programs.
 2. This provision is applicable if the Permittee is subject to 40 CFR Part 68 - Chemical Accident Prevention Provisions. The Permittee shall submit a risk management plan (RMP) by dates specified in 40 CFR 68.10. The Permittee shall certify compliance with these requirements as part of the annual compliance certification as required by 40 CFR Part 70.
 3. This provision is applicable if the Permittee is subject to 40 CFR Part 82. The Permittee will comply with all provisions of 40 CFR Part 82. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR 82.156. Equipment used during maintenance, service, repair, or disposal of appliances must meet the standards for recycling and recovery equipment in accordance with 40 CFR 82.158. Persons performing maintenance, service, repair or disposal of appliances must be certified by a certified technician pursuant to 40 CFR 82.161.

*******End of Federal Regulations and Applicable Requirements*******



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**CLASS I AIR QUALITY OPERATING PERMIT
GENERAL REQUIREMENTS**

Issued to: Barrick Cortez, Inc., as Permittee

Section V. General Monitoring, Recordkeeping, and Reporting Requirements

A. NAC 445B.315.3.(b) Part 70 Program

The Permittee shall retain records of all required monitoring data and supporting information for 5 years from the date of the sample collection, measurement, report or analysis. Supporting information includes, but is not limited to, all records regarding calibration and maintenance of the monitoring equipment and all original strip-chart recordings for continuous monitoring instrumentation.

B. NAC 445B.3405.1.(d) Part 70 Program

The Permittee will record:

1. Monitoring information required by the conditions of this permit including the date, the location and the time of the sampling or the measurements and the operating conditions at the time of the sampling or measurements; and
2. The date on which the analyses were performed, the company that performed them, the analytical techniques that the company used, and the results of such analyses.

C. NAC 445B.3405.1.(e) Part 70 Program

The Permittee will:

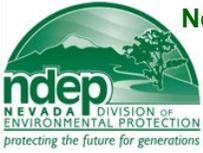
1. Promptly report to the Director all deviations from the requirements of this Operating Permit; and
2. Report to the Director the probable cause of all deviations and any action taken to correct the deviations. For this Operating Permit, prompt is defined as submittal of a report within 15 days of the deviation. This definition does not alter any reporting requirements as established for reporting of excess emissions as required under NAC 445B.232 and under **Section III.B** of this permit, or for reporting of an emergency (as defined by NAC 445B.326) under **Section I.I.** of this permit; and
3. Submit reports of any required monitoring every 6 months, within 8 weeks after June 30 and December 31 of each calendar year. The reports must contain a summary of the data collected as required by all monitoring, recordkeeping and compliance requirements and as specified in sections **VI** and **VII** of this operating permit.

D. NAC 445B.315.3.(h) Part 70 Program

The Permittee will submit yearly reports including, but not limited to, throughput, production, fuel consumption, hours of operation, and emissions. These reports will be submitted on the form provided by the Bureau of Air Pollution Control for all emission units/systems specified on the form. The completed form must be submitted to the Bureau of Air Pollution Control no later than March 1 annually for the preceding calendar year, unless otherwise approved by the Bureau of Air Pollution Control.

E. NAC 445B.3405.1.(j) Part 70 Program

1. The Permittee will submit a compliance certification for all applicable requirements, reflecting the terms and conditions of the permit, to the Administrator of the Division of Environmental Protection and the Administrator of USEPA annually, on or before March 1 for the preceding calendar year. The compliance certification must include:
 - a. An identification of each term or condition of the Operating Permit that is the basis of the certification;
 - b. The status of the stationary source's compliance with any applicable requirement;
 - c. A statement of whether compliance was continuous or intermittent;
 - d. The method used for determining compliance; and
 - e. Any other facts the Director determines to be necessary to determine compliance.



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Section V. General Monitoring, Recordkeeping, and Reporting Requirements
(continued)

F. NAC 445B.265 (*Federally Enforceable SIP Requirement*)

Monitoring systems: Records: Reports

1. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain records of the occurrence and duration of any start-up, shutdown or malfunction in the operation of an affected facility and any malfunction of the air pollution control equipment or any periods during which a continuous monitoring system or monitoring device is inoperative.
2. The Permittee required to install a continuous monitoring system shall submit a written report of excess emissions to the director for every calendar quarter. All quarterly reports must be postmarked by the 30th day following the end of each calendar quarter and must include the following information:
 - a. The magnitude of excess emissions computed in accordance with NAC 445B.256 to 445B.267, inclusive, any conversion factors used, and the date and time of commencement and completion of each time period of excess emissions.
 - b. Specific identification of each period of excess emissions that occurs during start-ups, shutdowns and malfunctions of the affected facility.
 - c. The nature and cause of any malfunction, if known, the corrective action taken or preventative measures adopted.
 - d. Specific identification of each period during which the continuous monitoring system was inoperative, except for zero and span checks, and the nature of any repairs or adjustments that were made.
 - When no excess emissions have occurred and the continuous monitoring system has not been inoperative, repaired or adjusted, such information shall be included in the report.
3. The Permittee subject to the provisions of NAC 445B.256 to 445B.267, inclusive, shall maintain a file of all measurements, including:
 - a. Continuous monitoring systems, monitoring devices and performance testing measurements;
 - b. All continuous monitoring system performance evaluations;
 - c. All continuous monitoring systems or monitoring device calibration checks;
 - d. Adjustments and maintenance performed on these systems or devices; and
 - e. All other information required by NAC 445B.256 to 445B.267, inclusive, recorded in a permanent form suitable for inspection.
 - The file shall be retained for at least 2 years following the date of the measurements, maintenance, reports and records.

G. NAC 445B.063 (*State-Only Requirement*)

The Department may use any credible evidence or information, relevant to whether a source would have been in compliance with applicable requirements if the appropriate performance or compliance test or procedure had been performed, to determine excess emissions.

*******End of General Monitoring and Recordkeeping Conditions*******