



MICHELLE LUJAN GRISHAM
GOVERNOR

JAMES C. KENNEY
CABINET SECRETARY

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

June 12, 2025

Randy Ellison, General Manager
Freeport-McMoRan Tyrone Mine
P.O. Box 571
Tyrone, NM 88065

RE: Discharge Permit Renewal; DP-166, Freeport-McMoRan Tyrone Inc: Open Pits; SX/EX Plant; 2 Leach Stockpile, Valencia In-Pit Leach Stockpile; In-Pit Waste Rock Stockpiles

Dear Randy Ellison:

Notice is hereby given pursuant to Subsection H of 20.6.2.3108 NMAC that the Ground Water Discharge Permit Renewal of the existing Discharge Permit 166 (DP-166): Open Pits; SX/EX Plant; 2 Leach Stockpile; Valencia In-Pit Leach Stockpile; and In-pit Waste Rock Stockpiles, issued to Freeport-McMoRan Tyrone Mine Inc. (Applicant), has been proposed for approval (copy enclosed). The New Mexico Environment Department (NMED) Ground Water Quality Bureau (GWQB) will publish notice of the availability of the draft Discharge Permit Renewal and Modification in the near future and will forward a copy of the notice to you.

Prior to making a final ruling on the proposed DP-166 Discharge Permit Renewal, NMED will allow 30 days from the date the public notice is published, during which time written comments can be submitted or a public hearing requested. Comments and/or request for a public hearing may be submitted by any interested person or the Applicant. Written comments or hearing requests may be submitted to the GWQB either by utilizing the SmartComment portal at <https://nmed.commentinput.com/comment/search> or by email to sean.madden@env.nm.gov or mecs.general@env.nm.gov. Hearing requests shall set forth the reasons why a hearing should be held. A hearing will be held only if hearing requests are received from the public or the Applicant during the 30-day comment period and NMED determines there is substantial public interest regarding the proposed DP-166 Discharge Permit Renewal. Hearings are presided over by the NMED Secretary, or a hearing officer appointed by the Secretary.

NMED has imposed additional conditions on the Renewal of DP-166 that are not requirements of the Copper Mine Rule (20.6.7 NMAC), and are not conditions that can be pulled forward from the existing DP-166 in accordance with Paragraph (2) of 20.6.7.20.B NMAC (existing leach

stockpiles), Paragraph (2) of 20.6.7.21.C NMAC (existing waste rock stockpiles), Paragraph (2) of 20.6.7.22.B NMAC (existing copper crushing, milling, concentrator, smelting and tailing impoundments), and Paragraph (2) of 20.6.7.23.B NMAC (existing pipelines and tanks). Pursuant to Subsection I of 20.6.7.10 NMAC, NMED is providing the following written explanations of the reasons for the additional conditions.

1. Condition C105.B – The reason for this condition is to ensure that all stormwater impoundments, conveyance channels and collection ponds are inspected after one inch rain events to maintain their integrity and function in a manner that is protective of groundwater quality.
2. Condition C106.A – The reason for this condition is to keep NMED apprised of any changes to water sources used for dust suppression.
3. Condition C106.B – The reason for this condition is to ensure the sources of water used for dust suppression on any conditionally exempt mine units meet water quality standards of Section 20.6.2.3103 NMAC.
4. Condition C108.C – The reason for this condition is to require that the Applicant maintain consistent monitoring submittals that aligns with current DP-166 Discharge Permit monitoring practices, including submittal of monitoring reports in both electronic and hard copy format.
5. Condition C109.D – The reason for this condition is to ensure that contingency plans and schedules are provided should an unforeseen circumstance occur that may have the potential to directly or indirectly impact groundwater quality. This condition is intentionally broad to cover an event or situation not foreseen or covered by Section 20.6.7.30 NMAC that may have the potential to impact groundwater quality.
6. Condition D105.A – The reason for this condition is to ensure that the Applicant submits proper notification prior to destruction or removal of any monitoring wells required under DP-166.
7. Condition D105.B – The reason for this condition is to ensure that the Applicant submits consistent information supporting requests to plug and abandon monitoring wells.
8. Condition D106.B – The reason for this condition is to ensure that the Applicant properly notifies NMED in the event of any and all unauthorized discharges so that a determination of applicable reporting requirements can be made pursuant to Section 20.6.7 NMAC.

9. Condition D107.D – The reason for this condition is to assert NMED authority to require that the Applicant modify DP-166 should NMED determine that the requirements of 20.6.2 NMAC are being or may be violated, or the water quality standards of Section 20.6.2.3103 NMAC are being or may be violated.

Please review the enclosed draft DP-166 Discharge Permit Renewal carefully for accuracy and completeness, and to make sure you understand what it requires. Please be aware that the proposed DP-166 Discharge Permit Renewal may contain conditions that require the Applicant to implement operational, monitoring, or closure actions by a specified deadline.

The Water Quality Control Commission (WQCC) Regulations, 20.6.2 NMAC and 20.6.7 NMAC, are available online at <https://www.env.nm.gov/gwqb/gw-regulations>.

Any comments relating to this draft DP-166 Discharge Permit Renewal can be sent through the SmartComment portal at <https://nmed.commentinput.com/comment/search> or by email to sean.madden@env.nm.gov or meecs.general@env.nm.gov. If written comments or a written request for a hearing are not received during the public comment period, the draft DP-166 Discharge Permit Renewal will become final. Thank you for your cooperation during the review process.

Sincerely,

Sean
Madden

Digitally signed by Sean
Madden
Date: 2025.06.12
10:58:14 -06'00'

Sean Madden
Mining Environmental Compliance Section
Ground Water Quality Bureau
New Mexico Environment Department

Enclosure: Draft Discharge Permit Renewal, DP-166

Cc: Sherry Burt-Kested, Chino Mines Company (sburtkes@fmi.com)
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**GROUND WATER QUALITY BUREAU (GWQB)
DISCHARGE PERMIT RENEWAL
EXISTING COPPER MINE FACILITY
Issued under 20.6.2 and 20.6.7 NMAC**

Certified Mail No:
Return Receipt Requested

Mine Facility Name: Open Pits; SX/EW Plant; 2 Leach Stockpile; Valencia In-Pit
Leach Stockpile; In-Pit Waste Rock Stockpiles

GWQB Discharge Permit No.: DP-166
GWQB TEMPO AI No.: 527

Permittee Name/Responsible Party: Freeport-McMoRan Tyrone Inc.
Mailing Address: P.O. Drawer 571
Tyrone, NM 88065

Mine Facility Contact: Adam Offutt; (575) 912-5809
Mine Facility Location: Highway 90 South
Tyrone Mine Road
Tyrone, NM 88065

County: Grant County

Permitting Action: Renewal
Effective Date: TBD
Expiration Date: TBD

NMED Permit Contact: Sean Madden; (505) 487-6637 or Brad Reid; (505)372-8533
E-mail Address: sean.madden@env.nm.gov or Brad.Reid@env.nm.gov
Or: mecs.general@env.nm.gov

Justin Ball, Chief
Ground Water Quality Bureau

Date

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draft

Part A GENERAL INFORMATION

A100 Introduction

- A. The New Mexico Environment Department (NMED) issues this renewal of Groundwater Discharge Permit, DP-166 (Discharge Permit or DP-166) to Freeport-McMoRan Tyrone Inc. (Permittee) pursuant to the New Mexico Water Quality Act (WQA), NMSA 1978, §§ 74-6-1 through 74-6-17, and the New Mexico Water Quality Control Commission (WQCC) Regulations, Part 20.6.2 (Ground and Surface Water Protection) and Part 20.6.7 NMAC Ground Water Protection – Supplemental Permitting Requirements for Copper Mine Facilities (the Copper Mine Rule). NMED is issuing this Discharge Permit to control the discharge of water contaminants from the Main, San Salvador, and Copper Mountain Open Pits; the Solution Extraction Electrowinning Plant (SX/EW Plant); the 2 Leach, and Valencia In-Pit Leach Stockpiles; the 7B, 7C, 8A, 8C, San Salvador, and South Rim Waste Rock Stockpiles, and associated infrastructure for the protection of groundwater and those segments of surface water gaining from groundwater inflow, for present and potential future use as domestic and agricultural water supply and other uses, and to protect public health.
- B. Pursuant to this Discharge Permit, the Permittee is authorized to discharge up to 49,000,000 gallons per day (gpd) of acidic leach solution (raffinate) to the 2 Leach Stockpile and Valencia In-pit Leach Stockpile for the purpose of leaching copper. In addition, impacted stormwater and leachate from the waste rock stockpiles and other areas within DP-166 are regulated pursuant to this Discharge Permit. These discharges may move directly or indirectly into groundwater of the State of New Mexico which has an existing concentration of 10,000 milligrams per liter (mg/L) or less of total dissolved solids (TDS) within the meaning of Section 20.6.2.3104 and Subsection A of 20.6.2.3101 NMAC. The discharges may contain water contaminants or toxic pollutants elevated above the water quality standards of Section 20.6.2.3103 NMAC in compliance with the terms and conditions of this Discharge Permit.
- C. The Permittee is authorized to discharge water contaminants pursuant to this Discharge Permit which requires compliance with 20.6.2 NMAC and 20.6.7 NMAC and is enforceable by NMED.

A101 Applicable Regulations

- A. The Permittee is discharging from a facility that meets the definition of “existing copper mine facility.” Sections 20.6.2.3000 through 20.6.2.3114 NMAC and 20.6.7 NMAC apply to discharges specific to copper mine facilities and their operations.
- B. The discharges from the facilities regulated pursuant to this Discharge Permit are not subject to any of the exemptions of Section 20.6.2.3105 NMAC.
- C. Groundwater quality as observed in monitoring wells required by C108.G of this Discharge Permit and consistent with Subsection B of 20.6.7.28 NMAC is subject to the criteria of Sections 20.6.2.3101 and 20.6.2.3103 NMAC except those excluded pursuant to Subsection D of 20.6.7.24 NMAC.

A102 Permit Duration

- A. Pursuant to WQA 74-6-5(I) and Subsection H of 20.6.2.3109 NMAC, the term of this Discharge Permit is **five (5) years** from the effective date.
- B. If the Permittee submits an application for renewal in accordance with Subsection G of 20.6.2.3106 NMAC, and the Permittee is not in violation of the discharge permit on the date of its expiration; then the existing discharge permit shall not expire until NMED approves or disapproves the application for renewal.

A103 Terms of Permit Issuance

- A. **Permit Fees** – As a discharge permit associated with Freeport-McMoRan Tyrone Inc., the Permittee shall remit an annual permit fee payment equal to the applicable permit fee based on mine size listed in Subsection A of 20.6.7.9 NMAC on August 1 of each year until termination of all discharge permits for Tyrone Mine. [20.6.7.9.A NMAC]
- B. **Transfer of Discharge Permit** – Prior to the transfer of any ownership, control, or possession of this permitted facility or any portion thereof, the Permittee shall notify the proposed transferee in writing of the existence of this Discharge Permit and include a copy of this Discharge Permit with the notice. The Permittee shall deliver or send by certified mail to NMED a copy of the notification and proof that such notification has been received by the proposed transferee. [20.6.7.38 NMAC and 20.6.2.3111 NMAC]

- C. **Permit Renewal** – To renew this Discharge Permit, the Permittee shall submit an application and associated fees for renewal at least 270 days prior to the expiration date of this Discharge Permit (by DATE) in accordance with Section 20.6.7.9, Section 20.6.7.10, and Section 20.6.7.11 NMAC.
- D. **Additional Conditions** – In addition to the requirements of 20.6.7 NMAC, the Permittee shall comply with the following additional conditions as authorized by Subsection I of 20.6.7.10 NMAC pursuant to WQA 74-6-5: Conditions C105.B, C106.A, C106.B, C108.C, C109.D, D105.A, D105.B, D106.B, and D107.D.

Part B FACILITY SPECIFIC INFORMATION

B100 History and Facility Description

- A. The Tyrone Mine is an open pit copper mine facility owned by Freeport-McMoRan Tyrone Inc. and covers an area of approximately 9,000 acres. The Tyrone Mine consists of several open pits, associated waste rock stockpiles, leach stockpiles, and a SX/EW plant located in the northwestern portion of the mine, six reclaimed tailing impoundments in the northern portion of the mine, and other reclaimed facilities. The Tyrone Mine is regulated pursuant to multiple operational groundwater discharge permits, including DP-166, the Supplemental Discharge Permit for Closure DP-1341, the DP-27 settlement agreement, and an abatement plan.
- B. For descriptive purposes, facilities regulated pursuant to DP-166 are divided into two adjoining areas, the Operational Mining Area and the Deadman Canyon Area, which together encompass approximately 2,100 acres. The Operational Mining Area includes open pits, several waste rock and leach stockpiles, the SX/EW plant, and pregnant leach solution (PLS) collection facilities. The Deadman Canyon Area includes a portion of Deadman Canyon itself, the reclaimed former United States Natural Resources (USNR) Leach Stockpile located immediately east of Deadman Canyon, and several seepage collection facilities. The two areas are displayed on Figure 1 attached to this Discharge Permit.
 - 1. Operational Mining Area: The mine units regulated pursuant to DP-166 in the Operational Mining Area that produce discharges that may move directly or indirectly into groundwater include the 2 Leach Stockpile; the 8A, 8C, 7B, 7C, South Rim and San Salvador Waste Rock Stockpiles; and the open pits which include the Main Pit, the Copper Mountain Pit, the San Salvador Pit, South Rim

Pit, the West Main II, West Main III and Valencia Pits. The West Main II, West Main III and Valencia Pits are located within, and considered Sub-pits to the Main Pit. The Main Pit and the Copper Mountain Pit have been excavated below the regional water table and are being dewatered to facilitate mining. Dewatering of the Main and Copper Mountain Pits has created areas of hydrologic containment around the pits as defined by existing monitoring wells. Where operationally feasible, portions of the Main and San Salvador pits have been backfilled with waste rock or leach ore to facilitate mining and reclamation. The South Rim Pit has been almost completely backfilled with waste rock. Additional mine units regulated pursuant to DP-166 that produce discharges include sumps, PLS collection facilities, tanks, booster stations and pipeline systems. Facilities in the Operational Mining Area are displayed on Figure 1 attached to this Discharge Permit.

- a. Placement of ore for leaching on the 2 Leach Stockpile commenced pursuant to this permit in 1981 and leaching began shortly after. Distinct lifts of ore material were placed during construction of the 2 Leach Stockpile. Tyrone identifies these distinct lifts of ore as the 2C, 4A, 4B, 4C and 4D Leach Stockpiles for logistical purposes. However, they are all components of the larger 2 Leach Stockpile originally permitted in 1981. During 2019, DP-166 was renewed and modified to authorize construction and operation of the Valencia In-Pit Leach Stockpile. The leach stockpiles are leached through the application of raffinate which is discharged onto the stockpile surfaces and allowed to percolate through the ore material. The raffinate removes metals from the ore as it passes through the stockpile, and most of the copper laden PLS has a TDS concentration of approximately 90,000 mg/L.
- b. PLS, impacted stormwater, and seepage from the leach and waste rock stockpiles and pit high walls is collected in the Main Pit including the West Main II PLS Collection Sump and the West Main III PLS Collection Sump, the Copper Mountain Pit PLS Collection Sump, the San Salvador Pit PLS Collection Sump, the North Racket PLS Pond, the South Rim Pit PLS Collection Sump, the 2 PLS Pond, the 4B PLS Collection Pond, and the Valencia PLS Collection Sump. Fluids collected in the West Main II PLS Collection Sump are pumped through a series of relays before reaching the #3 Raffinate Booster and from there to the 2 Leach Stockpile for copper enrichment. Fluids collected in the West Main III PLS Collection Sump are pumped to the Valencia PLS Collection Sump and then back to

the process water circuit. Fluids collected in the Copper Mountain PLS Collection Sump are pumped to the North Racket PLS Pond and from there to the SX/EW Feed Pond or could be pumped directly to the SX/EW Feed Pond. Fluids collected in the San Salvador PLS Collection Sump are pumped to the 4C Drain which is a French drain-type collection system that conveys fluid to the SX/EW Feed Pond. PLS collected from the 2L3 and 2L5 Collection Wells is pumped directly to the SX/EW Feed Pond.

2. Deadman Canyon Area: Deadman Canyon is an ephemeral drainage located west of the Operational Mining Area containing relatively shallow perched alluvial water at a depth of approximately 10 feet. The perched alluvial water has been impacted by seepage from the former reclaimed USNR Leach Stockpile and operational leach stockpiles located east of Deadman Canyon in the west portion of the Operational Mining Area. Prior to 2000, the USNR site consisted of a leach stockpile with an asphalt liner and PLS collection ponds. In the early 2000s, most of the leach stockpile and asphalt were removed and the site was partially graded, covered with 6-inches to 1-foot of cover material and seeded. During the period from 2014 to 2017, additional reclamation of the USNR site was performed, including removal of residual leach material, extensive grading, construction of drainage channels and seep collection systems, placement of a minimum of 3-feet of reclamation cover material and seeding. Facilities in the Deadman Canyon Area are displayed on Figure 1 attached to this Discharge Permit.
 - a. Seepage in the 5E Tributary to Deadman Canyon is collected in a synthetically lined interceptor trench. Fluids collected in the interceptor trench are pumped to the synthetically lined 5E Collection Pond located west of the interceptor trench. From there, the fluids can be pumped to the 2A Leach Stockpile which is regulated pursuant to DP-435.
 - b. Seepage from the reclaimed USNR facility is collected in four seepage collection facilities displayed on Figure 1 as Seeps 2, 3, 4 and 6. The collected seepage at Seeps 2, 3, and 4 is conveyed to the 5E Collection Pond. Fluids at Seep 6 are collected behind a concrete headwall and evaporates.
 - c. The Deadman Canyon Collection System was constructed in 2016-2017 and consists of a cutoff-wall that is in Deadman Canyon and displayed

on Figure 1. The cutoff wall extends through the alluvium to the underlying bedrock and collects the perched alluvial groundwater. Seepage from Seeps 5 and 5E is also collected by the cutoff wall. The collected fluids are pumped to the 5E Collection Pond.

B101 Permitting History

- A. The Discharge Plan for DP-166 includes the Discharge Permit Application dated May 12, 2023, the Facility Monitoring Plan dated May 10, 2024 and materials contained in the Administrative Record prior to issuance of this Discharge Permit. As part of the application process, the Permittee also provided a document dated May 12, 2023, referred to as the *Tyrone Master Document* (TMD), which address Copper Mine Rule application requirements and is applicable to all the Tyrone Mine discharge permits, including DP-166. In addition, the Discharge Plan includes information and materials submitted as part of the original Discharge Plan approved on July 20, 1981, modified on May 26, 1982 and January 30, 1989, amended on November 9, 1992, January 22, 1999, renewed and modified on December 16, 1997, renewed and modified on May 27, 2005, amended on January 24, 2007, modified on July 10, 2008, June 22, 2009, August 26, 2009, February 2, 2010, modified on May 14, 2010, July 28, 2011, May 16, 2013, February 1, 2016, renewed and modified on February 7, 2019, amended on October 8, 2020, April 2, 2021, May 25, 2022, November 4, 2022, January 30, 2023, May 23, 2023, April 29, 2024, and January 24, 2025.

B102 Facility Location, Groundwater, and Process Water Characteristics

- A. The mine units regulated pursuant DP-166 are located approximately 12 miles southwest of Silver City at the Tyrone Mine in Sections 23, 24 and 25, T19S, R15W and Sections 14, 15, 21, 22, 23, 26, 27 and 28, T19S, R15W, Grant County, New Mexico.
- B. Groundwater beneath the mine units regulated pursuant to DP-166 is at a depth of approximately 0 to 350 feet in the regional aquifer, 0 to 30 feet in the perched alluvial aquifer in Deadman Canyon, and had a pre-discharge TDS concentration of approximately 280 mg/L.
- C. The waste rock stockpiles, leach stockpiles and pit walls may contain sulfide materials which, when oxidized, generate acidic solutions. These acidic solutions react with in situ minerals to produce Acid Rock Drainage (ARD) that may contain

metals, sulfate, and TDS, in elevated concentrations above water quality standards of Section 20.6.2.3.3103 NMAC.

- D. Process water and impacted stormwater discharges regulated pursuant to DP-166, including raffinate, PLS, and ARD are typically outside the acceptable range for pH and contain TDS, sulfate, and certain metals in concentrations that may exceed water quality standards of Section 20.6.2.3103 NMAC.

B103 Authorized Mine Units

This Discharge Permit contains requirements associated with the following authorized mine units as identified in the Discharge Plan. All mine units listed below meet the definition of “existing” mine units pursuant to the Copper Mine Rule and are located inside the currently approved operational Open Pit Surface Drainage Area (OPSDA) as defined by Section 20.6.7.7 NMAC, unless otherwise noted. The location of authorized mine units regulated pursuant to DP-166 are displayed on Figures 1 and 2.

A. Leach Stockpiles

1. The 2 Leach Stockpile is permitted to occupy approximately 762 acres and is located inside the Area of Open Pit Hydrologic Containment (AOPHC). There are small portions along the south and east outslopes of the 2 Leach Stockpile located outside the operational OPSDA. The 2 Leach Stockpile has expanded into the Copper Mountain Pit where both groundwater and stormwater flow toward the operational PLS collection systems and are hydrologically contained through pumping.
2. The Valencia In-Pit Leach Stockpile is permitted to occupy approximately 428 acres. The Valencia In-Pit Leach Stockpile has expanded to the limits of the 2 Leach Stockpile. Both groundwater and stormwater are hydrologically contained and flow towards the operational PLS collection systems.

B. Waste Rock Stockpiles

1. The 7B and 7C Waste Rock Stockpiles, including the footprint of the South Rim Pit Backfill, currently occupy approximately 168 acres, collectively. The 7B Waste Rock Stockpile is located partly outside the operational OPSDA
2. The contiguous 8A and 8C Waste Rock Stockpiles are permitted to occupy approximately 312 acres.

3. The San Salvador Pit is permitted for complete backfill with the San Salvador Waste Rock Stockpile pursuant to a July 10, 2008, modification to DP-166. To date, the pit has been only partially backfilled. Once the San Salvador Pit is completely backfilled, the San Salvador Waste Rock Stockpile footprint will occupy approximately 87 acres.

C. Open Pits

1. The Main Pit, which includes the West Main II, West Main III and Valencia Sub-pits, is currently approximately 867 acres in aerial extent, has a current circumference of approximately 5.2 miles, is approximately 1,550 feet deep, has been partially backfilled with waste rock.
2. The San Salvador Pit is authorized to encompass approximately 87 acres in aerial extent, with a current circumference of approximately 1.2 miles. It is approximately 170 feet deep and has been partially backfilled with waste rock.
3. The Copper Mountain Pit is currently approximately 198 acres in aerial extent, has a current circumference of approximately 2.42 miles and is approximately 350 feet deep.

D. SX/EW Plant and Associated Facilities

1. PLS from various collection facilities is pumped through high-density polyethylene (HDPE) pipelines to the synthetically lined SX/EW Feed Pond located just south of the SX/EW Plant. Fluid from the SX/EW Feed Pond is conveyed to the SX/EW Plant for processing to produce copper cathodes. Facilities associated with the SX/EW Plant include stainless steel acid tanks, stainless steel raffinate tanks, stainless steel raffinate mixer/settler tanks, the synthetically lined raffinate overflow pond, the SX/EW Wash Pad and the plant itself. The SX/EW Plant and associated facilities are located outside the operational OPSDA except for the south portion of the SX/EW Feed Pond.
2. The SX/EW Wash Pad is located outside the operational OPSDA just north of the SX/EW Plant and consists of a small-truck concrete wash pad with a sump that collects runoff from the wash pad. The runoff is piped to the 3A Leach Stockpile which is regulated pursuant to DP-286.

E. Impoundments – Descriptions, including capacities (if applicable), of the following impoundments are described in Appendix D of the Sitewide Water Management Plan (SWMP).

1. SX/EW PLS Feed Pond – The SX/EW PLS Feed Pond is synthetically lined and has an approximate volume of 1,065,000 gallons. The SX/EW PLS Feed Pond is located in the vicinity of the SX/EW Plant. It receives PLS from various collection facilities throughout the mine facility. PLS from this pond is conveyed to the SX/EW Plant for processing. Pond level controls are automated using electronic sensors and are monitored by SX/EW Control personnel.
2. Raffinate Overflow Pond – The Raffinate Overflow Pond is synthetically lined and has an approximate volume of 3,395,000 gallons. The Raffinate Overflow Pond is located in the SX/EW Plant area and collects raffinate overflow from the raffinate tanks during upset conditions. Fluid in the Raffinate Overflow Pond is pumped to the Raffinate Tanks.
3. 2 PLS Pond – The 2 PLS Pond is synthetically lined and is located along the southeast pit rim of the Valencia Pit. The 2 PLS Pond and 2 PLS Overflow Pond have an approximate combined volume of 5,269,000 gallons. The 2 PLS Pond and receives PLS from the from the 2 PLS Overflow Pond (2 Leach Stockpile), the 6D and 7B Leach Stockpiles (regulated under DP-455) and the 6A-2 PLS Collection Pond. PLS collected in the 2 PLS Pond is pumped to the SX/EW PLS Feed Pond but can also be pumped to the 2 PLS Overflow Pond during upset conditions. Pond level controls are automated using electronic sensors and are monitored by SX/EW Control personnel.
4. 2 PLS Overflow Pond – The 2 PLS Overflow Pond is unlined and located adjacent to the 2 PLS Pond. The 2 PLS Overflow Pond receives PLS from the 2 PLS Pond; PLS collected in the 2 PLS Overflow Pond is pumped to the 2 PLS Pond.
5. 2 PLS Contingency Pond – The 2 PLS Contingency Pond is synthetically lined and is located within the 2 Leach Stockpile footprint. The 2 PLS Contingency Pond is used to provide additional capacity to manage PLS in the event of a power outage or operational upset at the 2 PLS Pond.
6. 2 PLS Decant Ponds – The 2 PLS Decant Ponds are unlined and located

immediately west of the 2 PLS Contingency Pond. The 2 PLS Decant Ponds are used for additional capacity if needed during upset conditions. The 2 PLS Decant Ponds are located within the permitted 2 Leach Stockpile footprint.

7. 2A East PLS Collection Pond – The 2A East PLS Collection Pond is unlined and constructed on the rim of the Main Pit, south of the 3B Waste Stockpile (regulated under DP-286). It captures PLS from the 2A Leach Stockpile. PLS collected in the 2A East PLS Collection Pond is pumped to the No. 3 PLS Collection Pond and 3A-1 PLS Containment System (regulated under DP-286).
8. 2A Raffinate Overflow Pond – The 2A Raffinate Overflow Pond is synthetically lined and has an approximate volume of 1,400,000 gallons. The 2A Raffinate Overflow Pond is located on the eastern side of the 2A Leach Stockpile footprint. The 2A Raffinate Overflow Pond is used to manage occasional raffinate overflow from existing Raffinate Boosters 1, 2, and 3. The capacity is sufficient to contain a low probability, and worst-case scenario inflow of approximately 32,000 gallons per minute (gpm) from the three raffinate booster stations collectively for approximately 43 minutes. This design allows sufficient capacity for plant operations to make necessary operational adjustments during upset conditions and facilitate effective solution management. The 2A Raffinate Booster Overflow Pond is equipped with a barge pump capable of conveying a minimum of 800 gpm of raffinate to Raffinate Booster 3.
9. 4B PLS Collection Pond – The unlined 4B PLS Collection Pond is unlined and located south of the 2 Leach Stockpile and collects PLS from the 2 Leach Stockpile. PLS collected in the 4B PLS Collection Pond gravity feeds or can be pumped to the San Salvador PLS Collection Sump. This facility is monitored by SX/EW personnel.
10. 4C Drain – The 4C Drain is a synthetically lined French drain type of collection trench located on the western toe of the 2 Leach Stockpile and collects PLS from the 2 Leach Stockpile. It also receives PLS collected in the San Salvador PLS Collection Sump. PLS collected in the 4C Drain reports to the SX/EW PLS Feed Pond.
11. 6P PLS French Drain – The 6P PLS Pond was formerly located near the bottom of the West Main III Pit. In 2024, the pond was authorized for removal by NMED due to construction of a haul road. A French drain and HDPE pipeline

was placed in the former 6P PLS Pond area to convey PLS to the Valencia PLS Collection Sump via pipeline and an open conveyance channel.

12. Copper Mountain Decant Ponds – The four unlined Copper Mountain Decant Ponds are located in the southern portion of Copper Mountain Pit west of the North Racket PLS Pond and are used to decant PLS. PLS collected in the Copper Mountain Decant Ponds is conveyed to the North Racket PLS Pond.

13. North Racket PLS Pond – The synthetically lined North Racket PLS Pond is located along the southern edge of the Copper Mountain Pit and has an approximate volume of 2,195,000 gallons. The North Racket PLS Pond receives PLS from the Copper Mountain PLS Collection Sump and Copper Mountain Decant Ponds. PLS collected in the North Racket PLS Pond is pumped to the SX/EW PLS Feed Pond.

F. PLS Collection Wells:

1. 2L3 PLS Collection Well – The 2L3 PLS Collection Well is located east of the Copper Mountain Pit. The original 2L3 PLS Collection Well was replaced, due to damage, and is now located approximately fifty feet northwest of the previous location. The 2L3 PLS Collection Well collects subsurface PLS from the 2 Leach Stockpile and is pumped directly to the SX/EW Feed Pond.
2. 2L5 PLS Collection Well – The 2L5 PLS Collection Well is located northeast of the Copper Mountain Pit and southwest of the West Main III PLS Collection Sump. The 2L5 PLS Collection Well collects subsurface PLS which is pumped directly to the SX/EW Feed Pond.

G. Sumps, Tanks, Pipelines and Other Containment Systems

1. Deadman Canyon Area Seepage Collection Systems – All of the Deadman Canyon Seepage Collection Systems are located outside of the operational OPSDA.
 - a. 5E Canyon Collection System – The 5E Canyon Collection System is located in the 5E Tributary to Deadman Canyon and consists of a synthetically lined French drain type of collection system designed to collect seepage and impacted groundwater from the 2B Waste Stockpile (regulated under DP-435) located at the head of the 5E Tributary. Collected fluids are pumped to the 5E Collection Pond.

- b. Deadman Canyon Collection System – The Deadman Canyon Collection System consists of a subsurface concrete cutoff wall which collects impacted alluvial water in Deadman Canyon. The Deadman Canyon Collection System also collects seepage from the 5 and 5E Seeps located just south of the cutoff wall. Collected fluids are pumped to the 5E Collection Pond.
- c. Seep Collection Systems 2, 3, 4 and 6 – Seep Collection Systems 2, 3, 4 and 6 collect seepage from the reclaimed USNR Leach Stockpile. Seepage collected in the 2, 3 and 4 Seep Collection Systems gravity flows through a pipeline to the 5E Collection Pond. Seepage collected in the 6 Seep Collection System collects behind a concrete headwall and evaporates.
- d. 5E Surge Pond – The 5E Surge Pond is synthetically lined and has a capacity of 2,000,000 gallons. The 5E Surge Pond is located near the mouth of the 5E Tributary to Deadman Canyon. The primary function of the 5E Surge Pond is to receive seepage from the 5E Seepage Collection Pond. Seepage collected in the 5E Surge Pond can be pumped back to the 5E Seepage Collection Pond or diverted to the 2A Leach Stockpile.
- e. 5E Seepage Collection Pond – The 5E Seepage Collection Pond is synthetically lined and has a capacity of 100,000 gallons. The 5E Seepage Collection Pond is located in the 5E tributary to Deadman Canyon and receives seepage from the 5E Canyon Collection System, the Deadman Canyon Collection System, Seeps 2 through 4, and the synthetically lined DC2-1 pond. Collected seepage is pumped to the 2A Leach Stockpile which is regulated pursuant to DP-435. Overflow from the 5E Seepage Collection Pond can also be diverted to the 5E Surge Pond.
- f. DC2-1 Pond – The DC2-1 Pond is synthetically lined and has a capacity of 180,000 gallons. The DC2-1 Pond is located immediately west of the 2B Waste Stockpile. The DC2-1 is used to collect seepage emanating from the 2B Waste Stockpile, which is conveyed by gravity through HDPE pipelines to the 5E Seepage Collection Pond.
- g. South Rim Pit PLS Collection Sump – The South Rim Pit PLS Collection

Sump is unlined and located in the southeast corner of the backfilled South Rim Pit. PLS that collects in the sump is pumped to 4B PLS Collection Pond.

2. West Main II PLS Collection Sump – The unlined West Main II PLS Collection Sump is located in the Main Pit. PLS from the 2A Leach Stockpile (regulated under DP-435) and Valencia In-Pit Leach Stockpile reports to the West Main II PLS Collection Sump, where it becomes diluted with groundwater and stormwater. The resulting fluid is pumped through Relays 0, 1, 2, 3 and 4 to the No. 3 Raffinate Booster (regulated under DP-435), and from there to the 4A Raffinate Booster Tank to balance solutions. Pump control systems for this facility are automated.
3. West Main III PLS Collection Sump – The unlined West Main III PLS Collection Sump is located in the bottom of the West Main Pit III and has a capacity of approximately 730,000 gallons. This location is approximately 1,000 feet northeast of the former West Main III PLS Collection Sump. The former West Main III PLS Collection Sump has been buried by waste fill material to accommodate an operational haul road located at the bottom of the Main Pit. The PLS collected beneath the haul road by a French Drain channel is conveyed to the relocated West Main III PLS Collection Sump. The West Main III PLS Collection Sump utilizes a French Drain capture system and HDPE pipelines to collect groundwater and PLS from the 2A Leach and 2B Leach Stockpiles (regulated under DP-435). The captured fluid is pumped to the Valencia In-Pit Leach Stockpile and subsequently collected in the Valencia PLS Collection Sump.
4. LR Fuel Dock – The LR Fuel Dock is located north of the Copper Mountain Pit outside the operational OPSDA. Any spillage and stormwater are conveyed to a tank for proper disposal.
5. Copper Mountain PLS Collection Sump is located at the bottom of the Copper Mountain Pit and collects PLS, groundwater, and stormwater. The fluid is pumped to the Copper Mountain Decant Ponds and the North Racket PLS Pond and from there to the SX/EW PLS Feed Pond. Fluid collected in the Copper Mountain PLS Collection Sump may also be pumped directly to the SW/EW PLS Feed Pond, bypassing the North Racket PLS Pond. The Copper Mountain PLS Collection Sump is equipped with a floating barge pump. Pump operations are automated and monitored remotely at the SW/EW Control Room.

6. Copper Mountain Sumps – The seven Copper Mountain Sumps are small sumps located along the southern portion of the Copper Mountain Pit. The sumps collect PLS seeping from the 2 Leach Stockpile. The collected PLS seeps into the Copper Mountain PLS Collection Sump or can be diverted from the sumps to the Copper Mountain Decant Ponds.
7. Relays 0, 1, 2, 3, 4 and associated Decant Sumps 1 and 2:
 - a. Relay 0 is also identified as the West Main II PLS Collection Sump (above). Relay 0 consists of a barge pump located in the West Main II PLS Collection Sump. Process water collected at 0 Relay is pumped to Decant Sumps 1 and 2 for solid settling prior to reaching the 1 Relay.
 - b. Relay 1 is synthetically lined and has an approximate volume of 1,267,532 gallons. Relay 1 is equipped with a barge pump. Relay 1 is located at the bottom of the West Main II sub-pit.
 - c. Relays 2, 3 and 4 consist of stainless-steel tanks with pumps. Fluids collected in the relays are pumped to the No. 3 Raffinate Booster Tank (regulated under DP-435).
 - d. Decant Sump 1 is synthetically lined and has an approximate volume of 285,011 gallons. Decant Sump 1 is located at the bottom of the West Main III Sub-pit. Decant Sump 1 collects PLS from the 2A Leach Stockpile that reports to the West Main II PLS Collection Sump (Relay 0).
 - e. Decant Sump 2 is synthetically lined and has an approximate volume of 1,267,532 gallons. Decant Sump 2 is also located at the bottom of the West Main III Sub-pit. Decant Sump 2 collects PLS from the 2A Leach Stockpile.
 - f. The two decant sumps will settle solids from solution to preserve the integrity of the pumps and relay system. Solution from the West Main II PLS Collection Sump (Relay 0) are pumped to Decant Sump 1, then flow by gravity to Decant Sump 2, then flow by gravity to Relay 1, then pumped to Relays 2, 3, and 4 and into the process water circuit.

- g. Relays 0, 1, 2, 3, 4 and associated Decant Sumps 1 and 2 are located within the operational OPSDA and AOPHC and are not subject to design and construction requirements of Section 20.6.7.17 NMAC.
8. San Salvador PLS Collection Sump – The San Salvador PLS Collection Sump is located at the bottom of the San Salvador Pit. Fluids collected in the San Salvador PLS Collection Sump are pumped to the 4C Drain and from there conveyed to the SX/EW PLS Feed Pond.
9. Valencia PLS Booster Station -The Valencia PLS Booster Station is located west of the Valencia I-Pit Leach Stockpile. The station collects PLS from the Valencia In-Pit Leach Stockpile and pumps it the SX/EW PLS Feed Pond or diverts to the 3 Raffinate Booster.
10. Valencia PLS Collection Sump - The Valencia PLS Collection Sump is located within the Valencia Pit at a lower elevation than the base layer of the Valencia In-Pit Leach Stockpile to facilitate PLS Collection. The PLS is pumped to the Valencia PLS Booster.
11. Upper 5E Earthen Sump – The Upper 5E Earthen Sump is an unlined sump located near the head of the 5E Tributary to Deadman Canyon. The sump is located outside the operational OPSDA, collects seepage and stormwater from the 2B Waste Rock Stockpile, and serves to decant sediment.
12. 4A Raffinate Booster Tank – The 4A Acid Raffinate Booster tank is stainless steel and has a capacity of approximately 12,600 gallons. The 4A Raffinate Booster Tank is located along the northern pit rim of the Copper Mountain Pit and is supplied by the Acid Mixing Tank at the Acid Unloading Facility. It pumps raffinate to the 2 Leach Stockpile or can supply raffinate to the 3 Raffinate Booster.
13. 4A Acid Raffinate Booster Tank – The 4A Raffinate Booster Tank is stainless steel and has a capacity of approximately 58,748 gallons. The 4A Acid Raffinate Booster Tank is located along the northern pit rim of the Copper Mountain Pit and is supplied by the Acid Mixing Tank at the Acid Unloading Facility. It pumps raffinate to the 2 Leach Stockpile or can supply raffinate to the 3 Raffinate Booster and can distribute it via HDPE pipelines to the 2 Leach Stockpile.
14. Raffinate Tanks 1 and 2 – The Raffinate Tanks 1 and 2 are located in the northwest corner of the SX/EW Plant. That are both constructed of stainless

steel. Raffinate Tank 1 has a capacity of approximately 397,000 gallons. Raffinate Tank 2 has a capacity of 2,400,000 gallons. The tanks supply raffinate to the 1, 2, and 3 Raffinate Booster Tanks, 2A West Raffinate Booster Tank (regulated under DP-435), and the 3A Leach Stockpile (regulated under DP-286). The tanks receive flow from the 3 PLS Collection Pond (regulated under DP-286), 10 Canyon Fiberglass Tanks, 3 Stockpile area environmental systems, SX/EW Plant, and Raffinate Overflow Pond. Pump and level controls systems for these facilities are automated. Overflow from the raffinate tanks discharges to the Raffinate Overflow Pond.

15. Valencia Raffinate Station 1 and 2 – The Valencia Raffinate Station 1 and 2 stainless-steel tanks are located northeast of the Copper Mountain Pit. Raffinate is received from the 1 Raffinate Booster Tank and pumped to the Valencia In-Pit Leach Stockpile.

16. Pipelines – Pipelines serving mine units regulated pursuant to DP-166 are constructed of HDPE material or stainless-steel and range in size from 2 to 16 inches or greater in diameter. Pipelines are described in Table 8 and Plate 1B of the TMD.

3. Flow Measurement

1. The Permittee utilizes flow meters to measure regulated discharge volumes pursuant to this Discharge Permit and as required by the Copper Mine Rule. Flow meters utilized by DP-166 are described in Table 10 of the TMD. A revision to Table 10, dated December 6, 2024, is included in the Discharge Plan.

B104 Authorized Discharges

The Permittee is authorized to discharge water contaminants from the following mine units in accordance with all applicable system design and operational constraints as described in this Discharge Permit, and the Discharge Plan. [20.6.2.3109 NMAC]

A. The Permittee is authorized to discharge a maximum combined volume of 49,000,000 gallons per day (gpd) of raffinate to the 2 Leach Stockpile and the Valencia In-pit Leach Stockpile for the purpose of leaching copper. [20.6.2.3109 NMAC]

- B. The Permittee is authorized to place waste rock within the authorized footprints of the 7B, 7C, 8A, 8C, South Rim, and San Salvador Waste Rock Stockpiles and discharge water contaminants originating from the placed material.
- C. The Permittee is authorized to place ore within the authorized footprint of the 2 Leach Stockpile and the Valencia In-pit Leach Stockpile.
- D. The Permittee is authorized to operate and manage discharges associated with the SX/EW Plant and associated facilities. Associated facilities include, but are not limited to, the SX/EW Feed Pond, SX/EW Wash Pad, Raffinate Tanks 1 and 2, Mixer/Settler Tanks, Raffinate Overflow Pond, Acid Tanks and components of the electrowinning plant itself.
- E. The Permittee is authorized to operate and manage discharges associated with the LR Fuel Dock.
- F. The Permittee is authorized to collect PLS in the West Main II and West Main III PLS Collection Sumps.
- G. The Permittee is authorized to collect PLS in the Valencia PLS Collection System.
- H. The Permittee is authorized to operate PLS Collection Wells 2L3 and 2L5.
- I. The Permittee is authorized to collect PLS in the Decant Sump 1.
- J. The Permittee is authorized to dewater the Main and Copper Mountain Open Pits to collect PLS, facilitate mining, and maintain hydrologic sinks around the pits and return the fluids to the process circuit.
- K. The Permittee is authorized to operate, and manage discharges associated with, the following Deadman Canyon Area seepage collection systems:
 - 1. 5E Canyon Collection System
 - 2. 5E Seepage Collection Pond
 - 3. 5E Surge Pond
 - 4. 5E Earthen Sump
 - 5. Seep Collection Systems 2, 3, 4, and 6

6. DC2-1 Lined Pond
7. Deadman Canyon Collection System
- L. The Permittee is authorized to operate and manage discharges associated with the following impoundments, sumps, tanks, relays and ponds:
 1. 2 PLS Pond
 2. 4C Drain
 3. 4B PLS Collection Pond
 4. Relays 0, 1, 2, 3, 4 and Decant Sumps 1 and 2
 5. North Racket PLS Pond
 6. Upper 5E Earthen Sump
 7. San Salvador PLS Collection Sump
 8. Copper Mountain Sumps
 9. Copper Mountain Decant Ponds
 10. 4A Raffinate Booster Tank
 11. 4A Acid Raffinate Booster Tank
 12. Valencia PLS Collection Sump
 13. Valencia PLS Booster Station
 14. Valencia Raffinate Station 1 and 2
 15. West Main II and West Main III PLS Collection Sumps
 16. Copper Mountain PLS Collection Sump
 17. 2A East PLS Collection Pond
 18. 2A Raffinate Overflow Pond
 19. South Rim Pit PLS Collection Sump

- M. This Discharge Permit authorizes only those discharges specified herein. Any unauthorized discharges such as spills or leaks must be reported to NMED and corrective action must be taken as required by Section 20.6.2.1203 NMAC, and any additional requirements listed in this Discharge Permit.
- N. The Permittee is authorized to use water from various sources that meet Section 20.6.2.3103 NMAC groundwater standards for dust suppression and as described in C106.

Part C FACILITY SPECIFIC REQUIREMENTS

The Permittee shall conduct operations in accordance with the requirements set forth below to ensure compliance with Part 20.6.2 NMAC.

C100 Open Pits

- A. The Main, San Salvador, and Copper Mountain Open Pits shall be operated in accordance with the applicable requirements of Section 20.6.7.24 NMAC.
- B. Fluids contained in the open pits shall be managed according to the applicable requirements of Subsection C of 20.6.7.24 NMAC and the Tyrone Mine Sitewide Water Management Plan required pursuant to DP-1236.
- C. Pursuant to Subsection A of 20.6.7.24 NMAC, expansion of the Main, San Salvador, and Copper Mountain Open Pits shall not exceed the area shown on Figure 4 attached to this Discharge Permit. The Permittee must obtain a permit modification or amendment prior to expanding the outer perimeter of Main, Copper Mountain, and San Salvador Open Pits.

C101 Leach Stockpiles

- A. Design, construction, and location of leach stockpiles shall be in accordance with the Discharge Plan, and applicable requirements of Subsections A and B of 20.6.7.20 NMAC.
- B. The Permittee shall operate the 2 Leach Stockpile and Valencia In-pit Leach Stockpile pursuant to the applicable operational requirements of Subsection C of 20.6.7.20 NMAC.

- C. Construction of new leach stockpiles; or expansion of stockpiles beyond footprints identified in this Discharge Permit, or for the purpose of facility closure as approved through DP-1341, must be evaluated in accordance with the requirements of Section 20.6.7.20 NMAC and may be subject to additional permitting requirements as described in Condition D107.

C102 Waste Rock Stockpiles

- A. Design, construction, and location of waste rock stockpiles shall be in accordance with the Discharge Plan, and applicable requirements of Subsections B and C of 20.6.7.21 NMAC.
- B. The Permittee shall comply with applicable operational requirements listed in Paragraphs (2) through (8) of 20.6.7.21.D NMAC including the requirement to place waste rock on waste rock stockpiles to plan for closure, to the extent practicable (Sections 20.6.7.18, 20.6.7.21 and 20.6.7.33 NMAC).
 - 1. Pursuant to Paragraph (7) of 20.6.7.21.D NMAC, placement of waste rock shall be in accordance with an operating plan that describes the sequencing of waste rock deposition on an annual basis, operation of seepage collection systems, operation of interceptor systems, operation of systems to return water to the concentrator or other locations as appropriate, and any other water management features.
- C. Construction of new waste rock stockpiles, or expansion of waste rock stockpiles beyond permitted footprints as shown on Figure 1 of this Discharge Permit, or for the purpose of facility closure as approved through the DP-1341, must be evaluated in accordance with the requirements of Section 20.6.7.21 NMAC, and may be subject to additional permitting requirements as described in D107.

C103 Impoundments

- A. The design, construction, and location of all new impoundments, and any improvements made to existing impoundments shall be in accordance with the Discharge Plan, and applicable requirements of Section 20.6.7.17 NMAC.
- B. Operation of all impoundments shall be in accordance with the applicable requirements of Subsection F of 20.6.7.18 NMAC.

C104 Tanks, Pipelines, Sumps, and Other Containment Systems

- A. Design, construction and location of all new pipelines, tanks, and sumps shall be in accordance with the Discharge Plan, and applicable requirements of Paragraphs (1) and (2) of 20.7.7.17.C. NMAC, Subsection C of 20.6.7.18 NMAC, and Subsections A and B of 20.6.7.23 NMAC.
- B. The Permittee shall operate all pipelines, tanks, and sumps in existence on the effective date of the Copper Mine Rule in accordance with the applicable requirements of Subsection C of 20.6.7.23 NMAC and Paragraph (2) of 20.6.7.23.B NMAC.
 - 1. The Permittee shall maintain the fluid level in the South Rim Pit PLS Collection Sump at or below 6,287 feet above mean sea level (amsl). The Permittee shall maintain a spare pump, motor, and power supply cable available for immediate replacement of existing equipment in the event of malfunction or failure. [20.6.2.3109 NMAC]
 - 2. In the event of a heavy rainfall event or operational failure, the fluid level in the South Rim Pit PLS Collection Sump is allowed to temporarily exceed 6,287 feet amsl up to a maximum level of 6,300 feet amsl. The Permittee shall notify NMED within 72 hours of the pit water level exceeding 6,287 feet amsl. The Permittee shall return the sump fluid level to 6,287 feet amsl as soon as possible and no later than 14 days after the initial excursion. In the event the Permittee is unable to return the sump fluid level to 6,287 feet amsl within 14 days of the excursion, the Permittee shall notify NMED within 24 hours of receiving the information. Within 24 hours of the 14th day of the excursion, the Permittee shall submit a corrective action plan and schedule for NMED approval to return the sump level to its permitted operating level. [20.6.2.3107.A(10) NMAC]
- C. Detailed and complete construction plans, specifications, and supporting design calculations for any proposed or required tanks, pipelines, sumps, or other containment systems used for the management of tailings, process water or other water contaminants, including any replacements thereof, shall be submitted for NMED approval a minimum of 30 days prior to the commencement of construction pursuant to Paragraph (2) of 20.6.7.17.C NMAC, Section 20.6.7.23 NMAC, and Section D107 of this Discharge Permit. This requirement does not

apply to portable or temporary tanks, pipelines, sumps, or other containment systems that are subject to periodic relocation during mining operations.

- D. Pursuant to applicable requirements of Paragraph (2) of 20.6.7.23.B NMAC and Subsection J of 20.6.7.33 NMAC, the Permittee shall remove and properly dispose of the tailing, process water, or other materials contained in pipelines, tanks or sumps as soon as they are no longer needed for site operations, water treatment, or other post-closure water management. Any residual tailing, process water, sediments or contaminated water shall be removed from the pipelines, tanks or sumps prior to closure and dispose of the material in a department approved manner. Pipelines may be removed for appropriate disposal or cleaned and buried in place. Sumps may be removed for disposal or cleaned and broken up and buried in place. During pipeline, tank or sump closure, the Permittee shall inspect the entire pipeline, tank or sump area for evidence of past spills and characterize the impacts and potential impacts of such spills. The Permittee shall document all areas where there is evidence of spills and propose to the department appropriate corrective actions pursuant to 20.6.2.1203 NMAC. Following pipeline, tank or sump removal, the Permittee shall remove for disposal or reclaim in place all acid generating pipeline, tank or sump bedding material that has the potential to impact water quality in excess of the applicable standards.

C105 Stormwater Management

- A. Stormwater shall be managed in accordance with the applicable requirements of Paragraph (4) of 20.6.7.17.C NMAC, and in accordance with the approved Tyrone Mine Sitewide Management Plan required by DP-1236.
- B. To ensure compliance with Paragraph (2) of 20.6.7.17.D NMAC and Paragraph (4) of 20.6.7.17.C NMAC, the Permittee shall inspect all stormwater impoundments, conveyance channels, and collection ponds outside the operational OPSDA on a quarterly basis and as soon as practicable and after precipitation events exceeding one-inch in 24 hours for evidence of excessive sediment buildup and stormwater accumulation that exceed design capacity or intended function of the facility. Facilities to be inspected following 24-hour one inch precipitation events would be determined by the nearest appropriate rain gauge(s).

C106 Dust Suppression

- A. If at some time in the future the Permittee wishes to use an alternate source of dust suppression water or change the location in which discharges have been

approved, the Permittee shall notify NMED for approval prior to implementation of a proposed change.

- B. Dust suppression water applied to conditionally exempt mine units shall be conducted using water sources that do not exceed the water quality standards set forth in Section 20.6.2.3103 NMAC.

C107 Flow Measurement

- A. Pursuant to Paragraph (2) of 20.6.7.18.E NMAC, and Subsection F of 20.6.7.29 NMAC, the Permittee shall visually inspect all flow meters, used for compliance with the Copper Mine Rule, on a monthly basis for evidence of malfunction and repair or replace malfunctioning flow meters within 30 days of or as soon as practicable following discovery.

C108 Monitoring and Reporting

- A. Water quality monitoring and reporting shall be in accordance with applicable requirements of Sections 20.6.7.28 and 20.6.7.29 NMAC. The Permittee shall identify, collect, preserve, transport, analyze, and report samples of groundwater, surface water, seepage water and process water, seep(s), and spring(s) from the facility in accordance with the NMED-approved monitoring plan titled, *Facility Monitoring Plan, Discharge Permit 166 (DP-166)* dated December 5, 2024 and Table 1 of this Discharge Permit, and any additional requirements listed in this Discharge Permit. Table 1 provides a summary of monitoring and reporting requirements. Figure 1 of this Discharge Permit displays sampling locations.
- B. Samples of pit sump water, stormwater, and process water, including seeps shall be analyzed for total and dissolved concentrations in accordance with Table 1. Samples of groundwater and springs shall be analyzed for dissolved concentrations in accordance with Table 1.
- C. The Permittee shall submit monitoring reports to NMED in both electronic and hard copy format on a semi-annual schedule that contains all quarterly monitoring data and information collected pursuant to the requirements of this Discharge Permit, and the applicable requirements of Sections 20.6.7.18 and 20.6.7.29 NMAC. Semi-annual reports are due by February 28 and August 31 of each year. Annual data shall be submitted in the monitoring report due by February 28 of each year.

D. Requests to change monitoring and reporting requirements may require modification or amendment of this Discharge Permit as required by the NMED Secretary. [20.6.2.7 NMAC]

E. Groundwater

1. The Permittee shall identify and monitor groundwater at locations specified by Subsection B of 20.6.7.28 NMAC and listed in Table 1 of this Discharge Permit.
2. Pursuant to Paragraph (1) of 20.6.7.28.B NMAC, the existing monitoring wells listed in Table 1 have been deemed appropriate by NMED for continued use as groundwater monitoring wells under this Discharge Permit. These groundwater monitoring wells, some of which were installed prior to the effective date of the Copper Mine Rule, have been identified to be located and constructed in accordance with the Copper Mine Rule.
3. Pursuant to Subsection G of 20.6.7.28 NMAC, the Permittee shall sample and analyze groundwater from the DP-166 monitoring wells in accordance with the schedule and parameters provided in Table 1, and applicable requirements of Subsection F of 20.6.7.28 NMAC. Analytical results shall be submitted in the semi-annual monitoring reports in the format specified by Subsection C of 20.6.7.29 NMAC.
4. The Permittee shall submit an installation schedule and updated location map for NMED approval in accordance with Subsection A of 20.6.7.28 NMAC a minimum of 90 days prior to installation of any new or replacement Monitoring Well.
5. Pursuant to Subsection L of 20.6.7.28 NMAC, the Permittee shall submit to NMED groundwater elevation contour maps semi-annually. The maps shall be of appropriate scale, shall include land surface topographic contours with appropriate contour intervals, and shall include the monitoring wells that the groundwater data is based on. The maps shall be submitted according to the reporting schedule listed in C110.C.

F. Waste Rock Stockpiles

1. Pursuant to Subsection B of 20.6.7.29 NMAC, the Permittee shall submit an annual operating plan describing waste rock placement as required by

C102.B.1. The operating plan shall be submitted with the monitoring report due by February 28 of each year.

2. The Permittee shall submit an annual Seepage Collection System Monitoring and Evaluation Report for the Deadman Canyon Area interceptor systems authorized by this Discharge Permit that contains the information required by Subsection H of 20.6.7.29 NMAC. The report shall include recommendations for changes to optimize performance of the system as applicable in accordance with Subparagraph (g) of 20.6.7.29.H(6) NMAC and be submitted with the DP-166 Annual Monitoring Report due on February 28 of each year.
 - a. The Permittee shall provide a status update on recommendations required by Subparagraph (g) of 20.6.7.29.H(6) NMAC as reported in previous Seepage Collection System Monitoring and Evaluation Reports.

G. Discharge Volumes

1. The Permittee shall measure and report average daily discharge volumes (unless otherwise noted) for process water and interceptor collection systems in accordance with Subsections B, E, F, and H of 20.6.7.29 NMAC using appropriate flow meters or estimation methods. Flow meters used for Copper Mine Rule discharge volume reporting are listed in Table 1. In addition to discharge volume reporting required by Subsection B of 20.6.7.29 NMAC, the Permittee shall measure and report the following discharge volumes in semi-annual monitoring reports pursuant to Subsections B, E, F, and H of 20.6.7.29 NMAC for the following discharges:
 - a. The average daily volume of PLS (gpd) pumped from PLS Collection Wells 2L3 and 2L5, 2 PLS Pond, North Racket Sump and 4C Drain.
 - b. Monthly average volume of fluids (gpd) pumped from the West Main II PLS Collection Sump and West Main III PLS Collection Sump (collectively metered at the 4 Relay), Copper Mountain Pit PLS Collection Sump, Valencia PLS Collection Sump and San Salvador Pit.
 - c. Meter readings above shall be recorded at intervals no less than once per week and shall be reported in the semi-annual monitoring reports required in Section C109.

H. Flow Measurement

1. Pursuant to Subparagraph (a) of 20.6.7.18.E.(2) NMAC, the Permittee shall

submit a report of repaired or replaced flow meters in the semi-annual monitoring reports that include a description of any flow meter malfunctions with a statement verifying the repair and description of calibration of the flow meter pursuant to Paragraph (3) of 20.6.7.18.E NMAC.

I. Meteorological Data

1. Meteorological data shall be measured as stipulated in the Tyrone Master Document. The data shall be submitted to NMED in the monitoring report due on February 28 of each year.

J. PLS, Raffinate, and Pit Water Quality

1. The Permittee shall collect and analyze samples of PLS, raffinate and pit fluids in accordance with Table 1 attached to this Discharge Permit.

K. Tyrone Mine Master Document

1. The Permittee shall submit an update to the TMD on an annual basis, or as required by NMED. The update shall include all changes to the Tyrone Mine Area for all relevant discharge permits from the past year or as required by NMED. The update shall be submitted with the annual DP-166 monitoring report. A statement indicating that no update is necessary may be provided in the event there are no changes to the TMD.

C109 Contingency Plan

- A. The Permittee shall comply with all applicable contingency requirements and submit to NMED all applicable information or documentation specified in Subsections A through J of 20.6.7.30 NMAC.
- B. Pursuant to Subsection G of 20.6.7.30 NMAC, discharges of process water, impacted stormwater or seepage that exceed the water quality standards of Section 20.6.2.3103 NMAC to unauthorized areas must be reported under Section 20.6.2.1203 NMAC and as required by D106.
- C. Pursuant to Subsection I of 20.6.7.30 NMAC, the Permittee shall notify NMED of any significant erosion of a cover system or compromise of a stormwater conveyance structure utilized in DP-166.
- D. If NMED or the Permittee identifies any other failures of the discharge plan or system not specifically noted in this permit or Section 20.6.7.20 NMAC that may

have the potential to impact water quality, NMED may require the Permittee to develop and submit contingency plans and schedules for NMED approval to address such failures. [20.6.2.3107.A.10 NMAC]

C110 Closure Plan

- A. Closure of all mine units associated with this Discharge Permit shall be performed in accordance with the requirements of Section 20.6.7.33 NMAC and Section 20.6.7.34 NMAC, and in accordance with DP-1341, as applicable. Closure and financial assurance requirements associated with facilities authorized by this permit are included in DP-1341.

Part D GENERAL CONDITIONS

General conditions issued by the Ground Water Quality Bureau pursuant to Part 20.6.2 NMAC and Part 20.6.7 NMAC are listed below.

D100 Enforcement

- A. Any violation of the requirements and conditions of this Discharge Permit, including any failure to allow NMED staff to enter and inspect records or facilities, or any refusal or failure to provide NMED with records or information, may subject the Permittee to a civil enforcement action pursuant to the NMSA 1978, Section 74-6-10(A) and (B). Such action may include a compliance order requiring compliance immediately or in a specified time, assessing a civil penalty, modifying, or terminating the discharge permit, or any combination of the foregoing; or an action in district court seeking injunctive relief, civil penalties, or both. Pursuant to the NMSA 1978, Section 74-6-10(C) and 74-6-10.1, civil penalties of up to \$15,000 per day of noncompliance may be assessed for each violation of the NMSA 1978, Section 74-6-5, the WQCC Regulations, or this Discharge Permit, and civil penalties of up to \$10,000 per day of noncompliance may be assessed for each violation of any other provision of the WQA, or any regulation, standard, or order adopted pursuant to such other provision. In any action to enforce this Discharge Permit, the Permittee waives any objection to the admissibility as evidence of any data generated pursuant to this Discharge Permit. The Permittee does not waive any argument as to the weight such evidence should be given. [74-6-10 WQA, 74-6-10.1 WQA]

- B. Pursuant to the NMSA 1978, Section 74-6-10.2(A-F), criminal penalties may be assessed for any person who knowingly violates or knowingly causes or allows another person to:
1. Make any false material statement, representation, certification or omission of material fact in an application, record, report, plan or other document filed, submitted or required to be maintained under the WQA;
 2. Falsify, tamper with, or render inaccurate any monitoring device, method or record required to be maintained under the WQA; or
 3. Fail to monitor, sample or report as required by a permit issued pursuant to a state or federal law or regulation.

D101 General Inspection and Entry Requirements

- A. Nothing in this Discharge Permit shall be construed as limiting in any way the inspection and entry authority of NMED under the WQA, the WQCC Regulations, or any other applicable law or regulation. [20.6.2.3107 NMAC, NMSA 1978 74-6-9(B) & (E) WQA]
- B. The Permittee shall allow the Secretary or an authorized representative, upon the presentation of credentials, to [20.6.2.3107.D NMAC, 74-6-9(B) & (E) WQA]:
1. Enter at regular business hours or at other reasonable times upon the Permittee's premises or other location where records must be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.
 2. Inspect and copy, during regular business hours or at other reasonable times, any records required to be kept under the conditions of this Discharge Permit, or under any federal or WQCC regulation.
 3. Inspect, at regular business hours or at other reasonable times, any facility, equipment (including monitoring and control equipment or treatment works), practices or operations regulated or required under this Discharge Permit, or under any federal or WQCC regulation.
 4. Sample or monitor, at reasonable times for the purpose of assuring compliance with this Discharge Permit or as otherwise authorized by the WQA, any effluent, water contaminant, or receiving water at any location before or after discharge.

D102 General Operational Requirements

- A. New mine units shall be designed in accordance with the applicable requirements of Section 20.6.7.17 NMAC.
- B. Mine units shall be operated in accordance with the applicable requirements of Section 20.6.7.18 NMAC.
- C. Pursuant to Subsection A of 20.6.7.18 NMAC, to the extent practicable, mine units shall be designed and operated in a manner that contemplates the closure plan, including identifying and segregating suitable material to construct covers, when feasible, and consideration of closure grading and drainage plans in the design and construction of leach stockpiles, tailings impoundments, waste rock stockpiles, and other copper mine facilities.
- D. The Permittee shall meet all applicable setback requirements for any new mine units pursuant to Section 20.6.7.19 NMAC.
- E. The Permittee shall provide written notice to NMED of the commencement, or recommencement of operations in accordance with Subsection C of 20.6.7.18 NMAC.

D103 General Record Keeping and Reporting Requirements

- A. The Permittee shall retain written records at the copper mine facility of all data and information related to field measurements, sampling, and analysis conducted pursuant to Section 20.6.7.37 NMAC.
- B. The Permittee shall furnish to NMED, within a reasonable time, any documents or other information which it may request to determine whether cause exists for modifying, terminating and/or renewing this Discharge Permit or to determine compliance with this Discharge Permit. The Permittee shall also furnish to NMED, upon request, copies of documents required to be kept by this Discharge Permit. [20.6.2.3107.D NMAC, NMSA 1978 74-6-9 (B) & (E) WQA]

D104 General Sampling and Analytical Methods

- A. Unless otherwise specified by this Discharge Permit, or approved in writing by NMED, the Permittee shall use sampling and analytical techniques that conform with the references listed in Subsection B of 20.6.2.3107 NMAC. [20.6.2.3107.B NMAC, 20.6.7.29.D NMAC]

D105 Monitoring Well Abandonment and General Conditions

- A. The Permittee shall submit a written request for NMED approval in accordance with Condition C108.F at least 30 days prior to the anticipated destruction or removal of any monitoring wells required under this Discharge Permit. After the Permittee receives NMED approval, monitoring well plugging and abandonment shall be completed in accordance with the document titled, *Ground Water Discharge Permit Monitoring Well Construction and Abandonment Conditions*, Revision 1.1, March 2011, or according to regulations issued by the Office of the State Engineer in Section 19.27.4 NMAC, unless an alternate method is approved by NMED. [20.6.2.3107 NMAC]
- B. The request required in Condition D105.A shall include the following information:
 1. A scaled map showing the location of the monitoring well(s) and the mine units it is intended to monitor.
 2. The purpose for plugging and abandoning the monitoring well(s).
 3. Details, if available, on the monitoring well(s) including depth-to-water elevation, top-of-casing elevation, construction, and lithologic logs.
 4. Recent groundwater analytical results (minimum of the most recent eight quarters or as requested by NMED) from the monitoring well(s).
 5. Proposed replacement well(s), if applicable.
 6. The same details, as applicable, listed in Conditions D105.B.1, and D105.B.3 are required for the proposed replacement monitoring well(s). New replacement wells require monitoring well completion reports pursuant to Subsection K of 20.6.7.28 NMAC.

D106 Reporting Requirements for Unauthorized Discharges

- A. In the event of a spill or release that is not authorized under this Discharge Permit, the Permittee shall initiate the notifications and corrective actions as required in 20.6.2.1203 NMAC and Subsection G of 20.6.7.30 NMAC. The Permittee shall take immediate corrective action to contain and remove or mitigate any damage caused by the discharge. Process water or impacted stormwater or other material that is spilled or released that has the potential to impact water quality shall be contained and pumped to a sump, impoundment, or leach stockpile permitted

pursuant to the Copper Mine Rule or managed in an alternate manner acceptable to NMED. Within 24 hours after discovery of the discharge, the Permittee shall verbally notify NMED and provide the information required by Paragraph (1) of 20.6.2.1203.A NMAC, and to determine applicable monitoring and reporting requirements pursuant to Paragraphs (2) and (3) of 20.6.7.29.B NMAC. The Permittee shall repair or replace failed components within 48 hours from the time of failure or as soon as practicable pursuant to Subsection G of 20.6.7.30 NMAC. Within 7 days of discovering of a discharge reportable under 20.6.2.1203 NMAC, the Permittee shall submit a written report to NMED verifying the oral notification and providing any additional information or changes. Pursuant to Paragraph (6) of 20.6.2.1203.A NMAC, the Permittee shall submit a corrective action report within 15 days after discovery of the discharge that describes corrective actions taken and/or to be taken. [20.6.2.1203 NMAC; 20.6.7.29.B(2) and (3) NMAC; Subsection G of 20.6.7.30 NMAC]

- B. As part of the 24-hour spill notification requirements, the Permittee shall submit a figure to NMED, if required by NMED following the initial notification, by the end of the next business day that clearly displays the location (or locations) of the spill and identifies nearby mine units and/or location information in latitude/longitude coordinates in decimal degrees (XX.XXXXXX and -XXX.XXXXXX, respectively), using a specified datum of WGS 84. Submittal of location information in Universal Transverse Mercator (UTM) format is also acceptable.

D107 Modifications and Amendments

- A. The Permittee shall notify and obtain approval from NMED of a proposed change to the facility or the facility's discharge that would result in a change in the volume discharged; the location of the discharge; or in the amount or character of water contaminants received, treated, or discharged by the facility, prior to implementing such changes. Such changes may require modification or amendment to this Discharge Permit, including payment of applicable fees as specified in Section 20.6.7.9 NMAC. [20.6.2.3107.C NMAC, 20.6.2.3109.E NMAC, 20.6.7.7.B(19) NMAC, 20.6.7.14 NMAC]
- B. As determined by NMED, for any proposed change that would meet the definition of a discharge permit modification as specified in Subsection D of 20.6.2.7 NMAC, the Permittee shall submit for NMED approval an application for modification of this Discharge Permit pursuant to Section 20.6.7.10 NMAC and 20.6.7.11 NMAC.

Plans and specifications shall be included in the request, as applicable, pursuant to Section 20.6.7.17 NMAC.

- C. As determined by NMED, for any proposed change that meets the definition of a discharge permit amendment as specified in Paragraph 19 of 20.6.7.7.B NMAC, the Permittee shall submit a request to NMED for amendment of this Discharge Permit pursuant to Section 20.6.7.14 NMAC of the Copper Mine Rule. Plans and specifications shall be included in the request, as applicable, pursuant to Section 20.6.7.17 NMAC.
- D. Pursuant to Section 20.6.2.3109 NMAC, NMED reserves the right to require a discharge permit modification in the event NMED determines that the requirements of 20.6.2 NMAC are being or may be violated, or the standards of Section 20.6.2.3103 NMAC are being or may be violated. This may include a determination that structural controls and/or management practices approved under this Discharge Permit are not protective of groundwater quality, and that more stringent requirements are needed to protect groundwater quality.

D108 Compliance with Other Laws

- A. Nothing in this Discharge Permit shall be construed in any way as relieving the Permittee of the obligation to comply with all applicable federal, state, and local laws, regulations, permits or orders. [20.6.2 NMAC, 20.6.7.8(D) NMAC]

Table 1 – Monitoring and Reporting Summary for DP-166

Table 2 – Monitoring and Reporting Summary for DT-100

Monitoring Report Schedule of Submittal (Subsection A of 20.6.7.29 NMAC)					
1	January 1 - June 30 (Q1 and Q2 sampling quarters) – Semi-annual report due by August 31 of each year.				
2	July 1 - December 31 (Q3 and Q4 sampling quarters) – Semi-annual report due by February 28 of each year.				
3	Annual reports due by February 28 of each year.				
Reporting Summary					
Annual Reporting Frequency	Number of Sites	Description			
2	NA	Monitoring Reports - general requirements (see Subsection B of 20.6.7.29 NMAC).			
2	NA	Monitoring Reports - analytical requirements (see Subsection C of 20.6.7.29 NMAC).			
1	1	Update Tyrone Master Document.			
Monitoring Schedule					
Perched Zone Monitor Wells					
	Sampling Groups				Notes
Designation	Q1	Q2	Q3	Q4	
TWS-19	1,2,3,4		1,2,3,4		
TWS-25	1		1,2,3,4		
TWS-26	1		1,2,3,4		
TWS-27	1		1,2,3,4		
TWS-28	1		1,2,3,4		
TWS-29	1		1,2,3,4		
TWS-30	1		1,2,3,4		
TWS-32	1		1,2,3,4		
TWS-33	1		1,2,3,4		
TWS-34	1		1,2,3,4		
TWS-35	1		1,2,3,4		
TWS-36	1		1,2,3,4		
TWS-37	1,2,3,4		1,2,3,4		
TWS-38	1		1,2,3,4		
TWS-39	1		1,2,3,4		
TWS-40	1		1,2,3,4		
166-2006-01	1		1,2,3,4		
166-2006-03	1,2,3,4		1,2,3,4		
166-2016-01	1		1,2,3,4		
166-2020-01	1,2,3,4		1,2,3,4		
New Perched MWs	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	
Seeps and Seep Collection Systems/Ponds					
Seep 2	1		1,2,3,4		Flow rates shall be measured quarterly
Seep 3	1		1,2,3,4		Flow rates shall be measured quarterly
Seep 4	1		1,2,3,4		Flow rates shall be measured quarterly
Seep 6	1		1,2,3,4		Flow rates shall be measured quarterly
5E Canyon Collection System	1		1		Flow rates shall be measured quarterly
Deadman Canyon Collection System	1		1		Flow rates shall be measured quarterly

5E Seepage Collection Pond			2, 4		
DC2-1			2, 4		
Regional Monitoring Wells					
Designation	Q1	Q2	Q3	Q4	
2-11	1		1,2,3,4		
2-12	1		1,2,3,4		
2-13	1		1,2,3,4		
2-15	1		1,2,3,4		
2-16	1		1,2,3,4		
6-5	1		1,2,3,4		
TWS-8	1		1,2,3,4		
TWS-9	1		1,2,3,4		
TWS-42	1,2,3,4		1,2,3,4		
166-2006-02	1,2,3,4		1,2,3,4		
166-2006-06	1		1,2,3,4		
166-2008-01	1		1,2,3,4		
166-2008-02	1		1,2,3,4		
166-2011-01	1		1,2,3,4		
166-2013-01	1		1,2,3,4		
166-2013-02	1		1,2,3,4		
166-2021-01	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	
166-2021-02	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	
New Regional MWs	1,2,3,4	1,2,3,4	1,2,3,4	1,2,3,4	
Sumps					
Copper Mountain Pit PLS Collection Sump			1		Dewatering flow rates and water levels shall be measured monthly
Main Pit/West Main II PLS Collection Sump			1		Dewatering flow rates and water levels shall be measured monthly
San Salvador PLS Collection Sump			1		Dewatering flow rates and water levels shall be measured monthly
South Rim Pit Sump	1		2, 4		
Raffinate and PLS Facilities					
SX Raffinate (2A West or SX/EW Plant)			1, 2, 4		
SX/EW PLS Feed Plant			1, 2, 4		
Raffinate Application					
The volume of raffinate applied to the 2 Leach Stockpile and Valencia In-pit Leach Stockpile shall be recorded daily.					
DP-166 Flow Meters used for Copper Rule Compliance (Revised Table 10, TMD)					
Meter Number	Description				
166RF01	Raff to Valencia (Raffinate)				
166RF02	#2 Raff Booster to 2C Line A (Raffinate)				

166RF03	#2 Raff Booster to 2C Line B (Raffinate)
166RF04	4 Booster Discharge (all of 2 Leach) (Raffinate)
166PL01	4C PLS Drain (PLS)
166PL02	North Racket/Copper Mountain PLS to Feed Pond (PLS)
166PL03	2L3 PLS Collection Well to Feed Pond (PLS)
166PL04	2L5 PLS Collection Well to Feed Pond (PLS)
166PL05	2 Pond to Feed Pond (PLS)
166PL06	Valencia PLS Sump to Feed Pond (PLS)
166PR01	#4 Relay (Main Pit Dewatering and PLS Collection; Process Water)
166SP01	5E Seepage Collection Pond (Seepage)
166SP02	Deadman Canyon Collection System (Seepage)
166SP03	Deadman Canyon Extraction Sump (Seepage)
166SP04	5E Canyon Collection System (Seepage)
Sampling Analytical Groups	
1 = Temperature, pH, electrical conductivity (specific conductance), and water level (if applicable) 2 = Sulfate and total dissolved solids (TDS) 3 = Alkalinity-bicarbonate, alkalinity-carbonate, alkalinity-total, boron, calcium, chloride, fluoride, magnesium, potassium, sodium 4 = Aluminum, arsenic, cadmium, chromium, cobalt, copper, iron, lead, manganese, nickel, selenium, and zinc NOTE: All samples are analyzed for dissolved constituents. Samples collected at seeps and ponds are also analyzed for total constituents.	
<u>SAMPLING QUARTERS</u>	
Q1 = January, February, March Q2 = April, May, June Q3 = July, August, September Q4 = October, November, December	

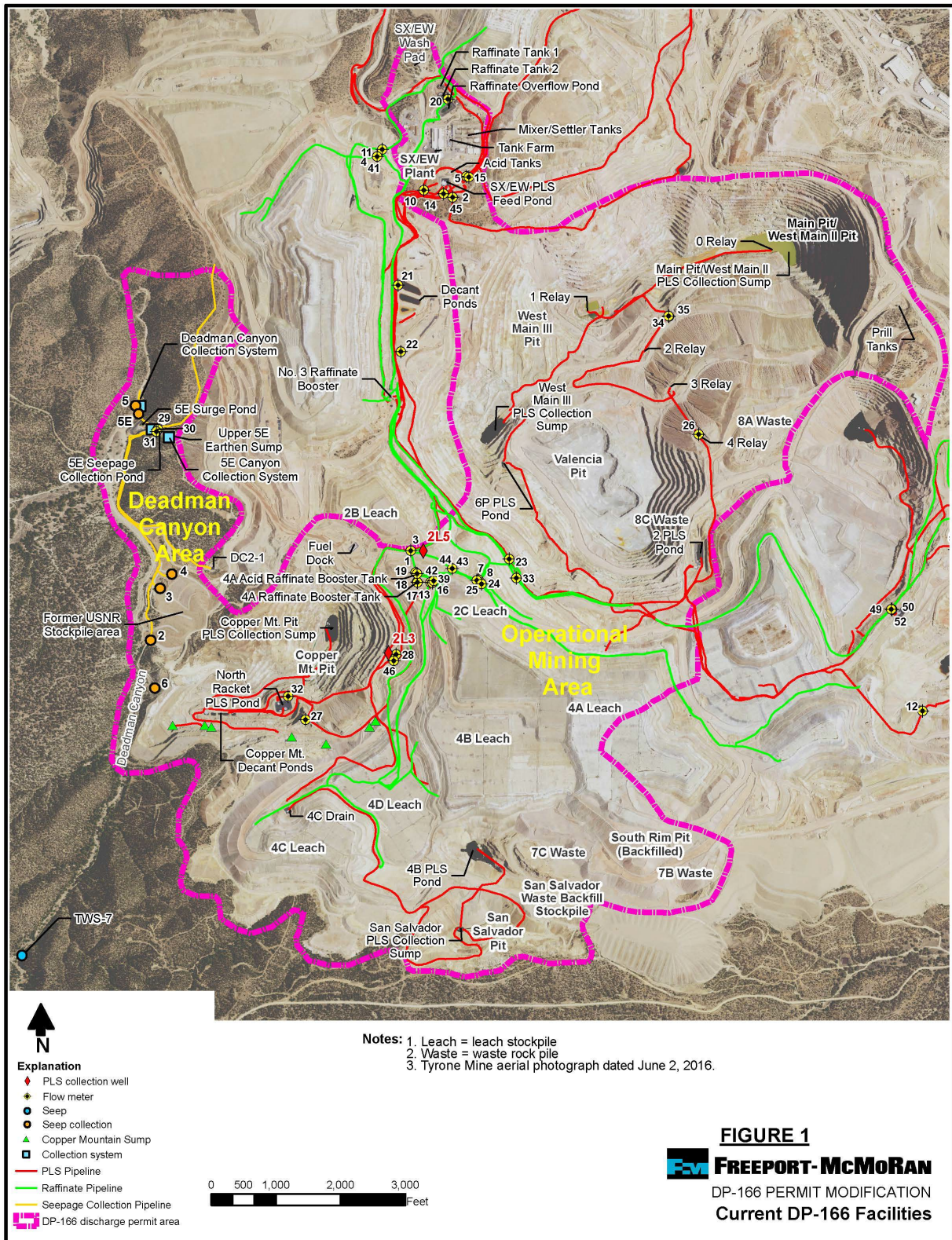


Figure 1 – DP-166 Facilities

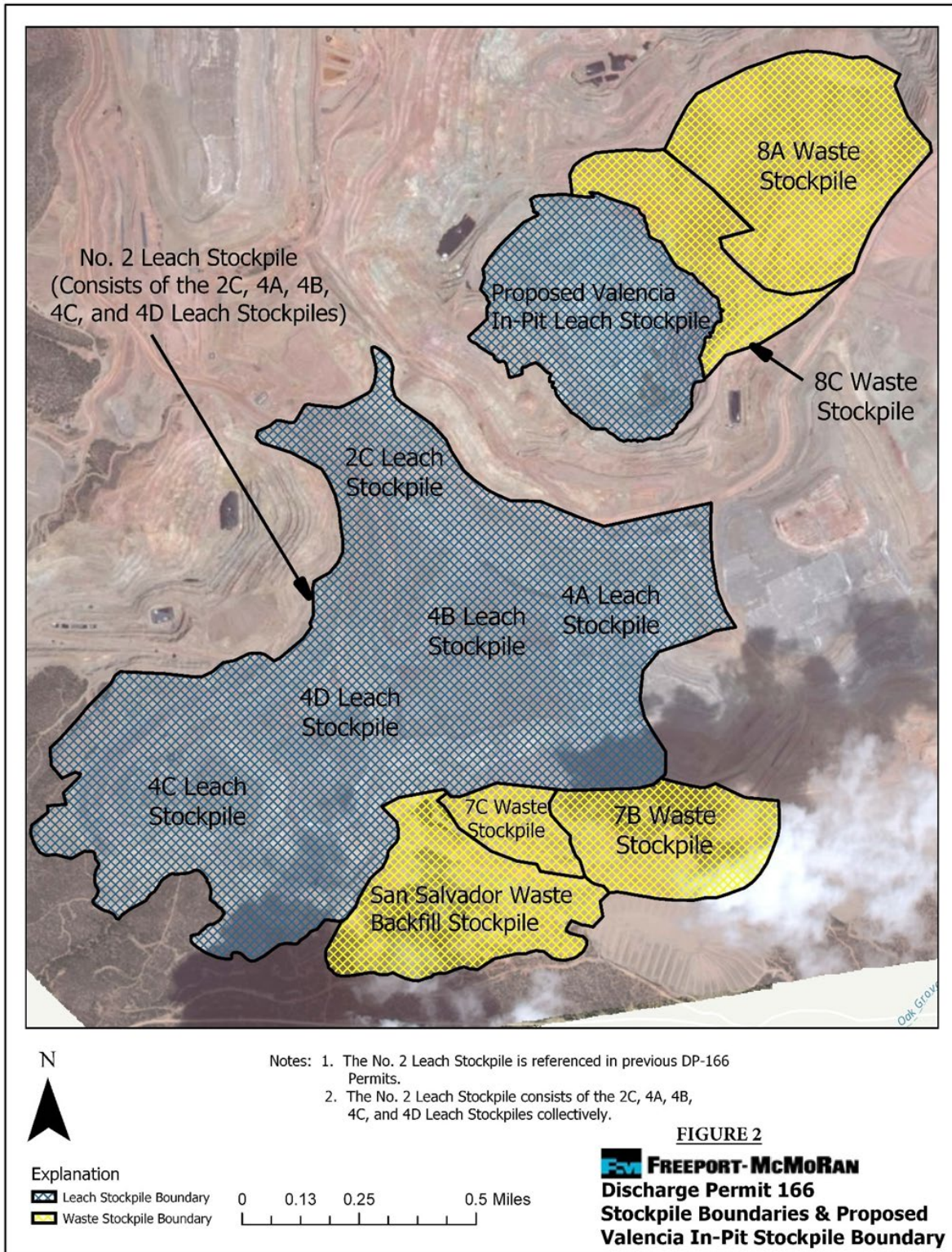


Figure 2 – DP-166 Stockpile Boundaries

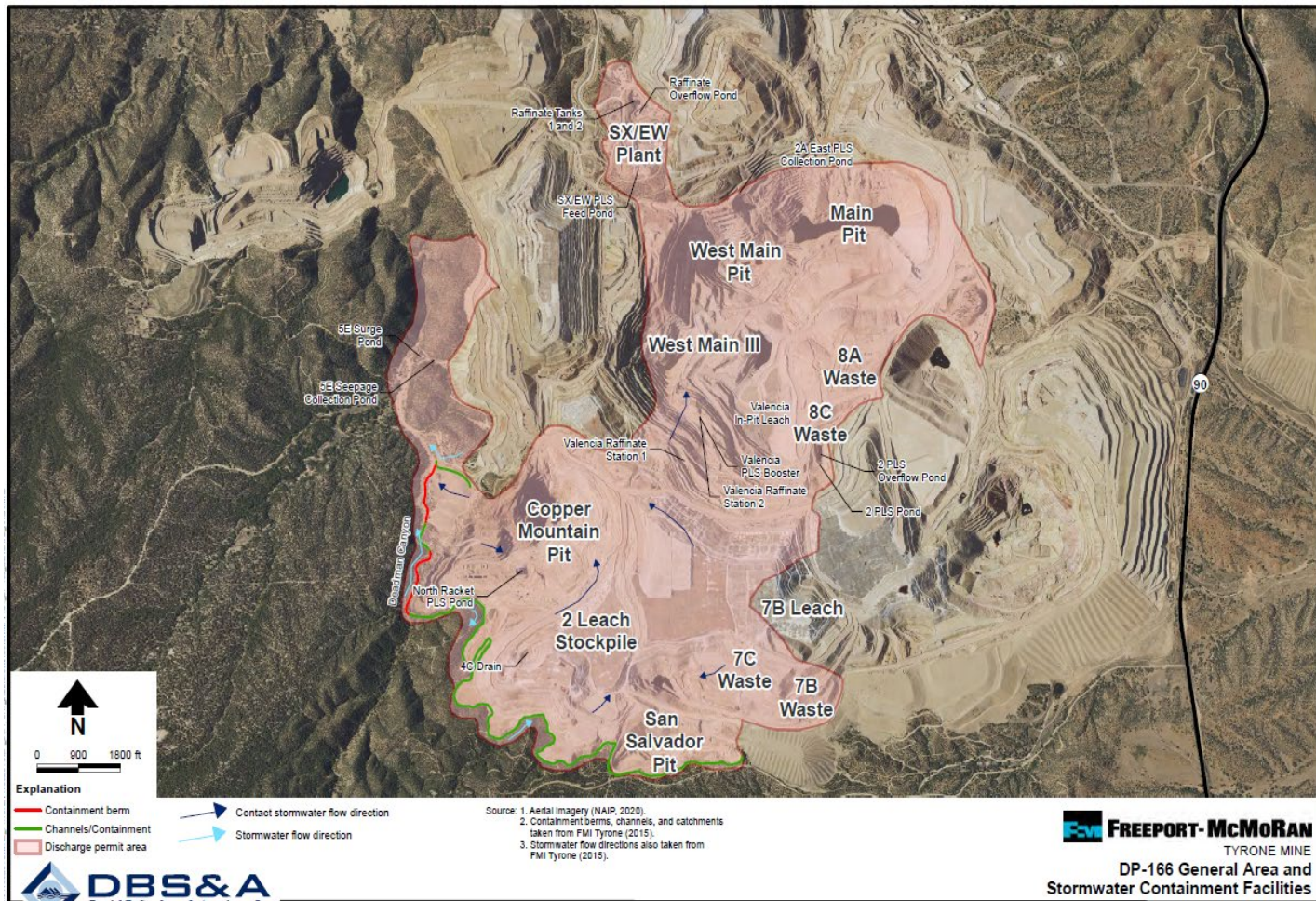


Figure 3 – DP-166 General Area and Stormwater Containment Facilities

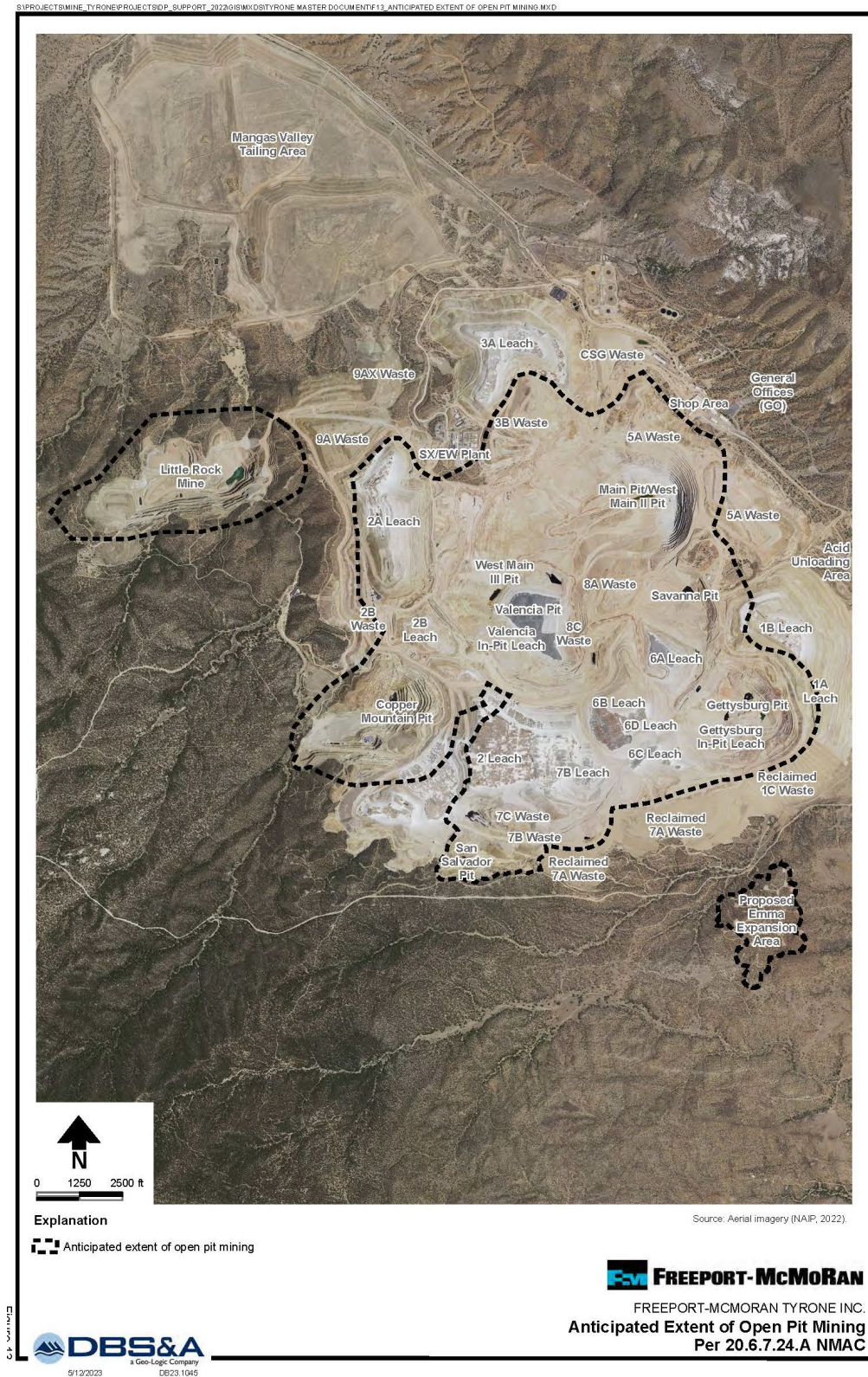


Figure 4 – Anticipated Extent of Open Pit Mining