

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION**  
**FACT SHEET**  
(pursuant to NAC 445A.236)

**Permittee:** Newmont Mining Corporation  
P.O. Box 669  
Carlin, Nevada 89822

**Permit:** NEV95016

**Location:** Carlin - South Operations Area  
Mill 5/6 Tailings Storage Facility (TSF), Mill 5/6 TSF West Expansion, and  
James Creek TSF  
Carlin Trend, Eureka County, Nevada

Township 33N, Range 51E, Sections 2, 11, 12, 13, and 14 MDB&M

**Primary Discharge Location 1 (Mill5/6 TSF):**

Latitude 40° 45' 43" N  
Longitude 116° 11' 43" W

**Primary Discharge Location 2 (Mill5/6 TSF West Expansion):**

Latitude 40° 45' 07" N  
Longitude 116° 12' 43" W

**Alternate Discharge Location (James Creek TSF):**

Latitude 40° 46' 22" N  
Longitude 116° 11' 59" W

**Flow:** 40,000 gallons per day  
(0.040 MGD Daily Maximum and 30-day average)

**Drinking Water Protection Area / Wellhead Protection Area:** The Mill 5/6 Tailings Storage Facility (TSF), the Mill5/6 TSF West Expansion, and the James Creek Tailings Storage Facility, which contain the described discharge, are outside the 6000' Drinking Water Protection Area of any public water supply well. The facility is not within an established Well Head Protection Capture Zone.

**General:** Newmont Mining Corporation operates a major gold mining and processing operation on the Carlin Gold Trend in Eureka County, Nevada. The Permittee proposes to continue to discharge sanitary wastewater, septage, and portable toilet waste generated by the workforce at the Permittee's South Operations Area (SOA) and North Operations Areas (NOA), to the Mill 5/6 TSF. The Permittee further proposes to begin discharge to the new Mill 5/6 TSF West Expansion, recently permitted by the Nevada Division of Environmental Protection Bureau of Mining Regulation and Reclamation (NDEP-BMRR). The Mill 5/6 TSF and SOA are located six miles north of Carlin, Nevada. The SOA is located in the Maggie Creek Basin of the Tuscarora Range in north-central Eureka County. The NOA is located 22 miles north of Carlin. The discharge of sewage/septage to the TSF has been authorized under NEV95016 since December 1995. Newmont's tailings storage facilities are constructed and managed/operated to meet zero-discharge

standards of performance. The embankment face of the Mill 5/6 and the entire West Expansion TSFs are constructed with 80 mil thick HDPE liners, and are located in areas of the mine-site where the groundwater is in excess of 100 feet below ground surface (bgs). Sewage and septage that originates from the various facilities of the SOA and NOA are thoroughly combined with mill tailings prior to discharge. The primary SOA sewage sump includes two grinders. The sewage is discharged with the tailings primarily to the Mill 5/6 and West Expansion TSFs. Since 1998, the Permittee has been authorized to truck additional septage from the NOA to the SOA for disposal in the Mill 5/6 TSF via the lift station. Septage that originates from the various septic tanks and portable toilets of the SOA and NOA is collected by septage pump trucks and introduced at the lift station, where it is subsequently pumped to either the Mill 5/6 or West Expansion TSF via the Mill 5/6 tails sump.

During the period from January, 2002 through March 2008, sewage and septage discharged to the tailings storage facilities accounted for approximately 0.16% of the total volume discharged. Because the relatively small amount of sewage is thoroughly mixed with tailings prior to dispersal within the tailings facilities, there is limited potential for sewage to accumulate in concentrations that could pose a threat to human health. The liquid fraction of the tailings, with the associated sanitary wastewater, is reclaimed from the TSF for use as make-up water for milling activities, and is monitored quarterly for fecal coliform. During the period from January, 2002 through March 2008, laboratory results indicate no fecal coliform bacterial present in the reclaimed fluid.

During shut down of Mills 5 and 6, the Permittee is authorized to discharge the sewage directly to either the Mill 5/6 or West Expansion TSF for a maximum of fourteen (14) consecutive days. During maintenance to the Mill 5/6 or West Expansion TSF, the Permittee is authorized to discharge the tailings/sewage slurry to the James Creek TSF for a maximum of fourteen (14) consecutive days.

The SOA has a combined sewer system; therefore, the sewage discharge rate is determined by the estimated waste/sewage flow rates of Uniform Plumbing Code. The septage discharge rate is determined by the number of septic pump trucks dumped into the system. The flow meter records these two discharges and stormwater flow collected by the system.

**Receiving Water Characteristics:** The Mill 5/6, West Expansion, and James Creek TSFs are zero discharge facilities, as authorized by Water Pollution Control Permit (WPCP) NEV90056, issued by the Bureau of Mining Regulation and Reclamation. As stated, groundwater is in excess of 100 feet below ground surface (bgs). The inactive James Creek TSF was formerly authorized by WPCP NEV50031. Groundwater degradation due to facility activity is not anticipated.

**Proposed Effluent Limitations:** During the period beginning on the effective date of this permit, and lasting until the permit expires, the Permittee is authorized to discharge septic tank, portable toilet, and pumped sewage, generated at the Permittee's South and North Operations Areas, to the Mill 5/6 TSF and/or to the Mill 5/6 TSF West Expansion via the primary sewage sump and the Mill 5/6 tailings booster pump house.

During shut down of Mills 5 and 6, the Permittee is authorized to direct discharge sewage/septage to the Mill 5/6 TSF and/or to the Mill 5/6 West Expansion for a maximum of fourteen (14) consecutive days.

During maintenance to the Mill 5/6 or West Expansion TSF, the Permittee is authorized to discharge the tailings/sewage slurry to the James Creek TSF for a maximum of fourteen (14) consecutive days.

Effluent samples and measurements taken in compliance with the monitoring requirements specified below shall be collected at:

- i. South Operations Area Uniform Plumbing Code variables;
- ii. Number and volume of fluids from septic pump trucks discharged to the system;
- iii. Total volume of tailings flow discharged to each TSF; and
- iv. Reclaim water, after withdrawal and prior to its point of use at the mill or leaching operation.

The effluent discharge shall be limited and monitored in accordance with the following specifications:

**TABLE 1: EFFLUENT DISCHARGE LIMITATIONS**

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	30 - Day Average	Daily Maximum	Sample Location	Measurement Frequency	Sample Type
<b>Total Sewage Flow (gpd)</b>	40,000	40,000	i., ii.	Continuous	Calculate <sup>1</sup>
•••Mill 5/6 TSF	M & R	M & R	i. + ii.	Continuous	Calculate <sup>1</sup>
•••Mill 5/6 TSF West Expansion	M & R	M & R	i. + ii.	Continuous	Calculate <sup>1</sup>
•••James Creek TSF	M & R	M & R	i. + ii.	Continuous	Calculate <sup>1</sup>
<b>Total Tailings Discharge<sup>2</sup> (gpd)</b>	M & R	M & R	iii.	Continuous	Estimate <sup>3</sup>
•••Mill 5/6 TSF	M & R	M & R	iii.	Continuous	Estimate <sup>3</sup>
•••Mill 5/6 TSF West Expansion	M & R	M & R	iii.	Continuous	Estimate <sup>3</sup>
•••James Creek TSF	M & R	M & R	iii.	Continuous	Estimate <sup>3</sup>
Fecal Coliform (cfu or mpn/100 ml)	2.2	23	iv.	Quarterly	Discrete

Notes:

- (1.) Sum of sewage, septage, and portable toilet waste.
  - The sewage flow is based on the estimated waste/sewage flow rates of the Uniform Plumbing Code. If the variables used in the application are constant, this must be stated and the same sewage flow rate may be used in the calculation.
  - The septage and portable toilet waste flows are based on a count of the septic pump trucks discharged to the system.

- All trucks are assumed to be full.
- (2.) Approval based on 14.4 million gallons per day dilution factor.
- (3.) Based on the amount of ore processed through Mill 5/6.  
gpd: Gallons per day. cfu: Colony forming units.  
TSF: Tailings Storage Facility. mpn: Most probable number  
M & R: Monitor & Report

**Schedule of Compliance and Special Conditions:** The proposed permit includes no schedule of compliance items. The proposed permit includes no special conditions.

**Rationale for Permit Requirements:** The Permittee will be required to monitor the make-up water for fecal coliform prior to its use at the mill or leaching operation to assess the potential for contamination of the water by the domestic waste.

**Proposed Determination:** The Division has made the tentative determination to issue the proposed permit, NEV95016, for a period of five (5) years.

**Procedures for Public Comment:** The Notice of the Division's intent to re-issue a permit, NEV95016, authorizing the Applicant to continue to discharge sewage/septage to the Permittee's tailings storage facilities, subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal** and the **Elko Daily Free Press** for publication. The notice is being mailed to interested persons on the Division's mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice, by **5:00 PM on October 6, 2008**. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, or any interested agency, person, or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted to accordance with NAC 445A.236. The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Prepared by: Janine O. Hartley  
Date: July, 2008