



# INSPECTION REPORT

Alaska Department of Environmental Conservation

Division of Water

410 Willoughby Ave, Juneau, AK 99811

ADEC Inspection Form  
Last updated (4/08)

Inspector:  
Kenwyn George  
907-465-5313

## Section A: General Data

Inspection Date	Permit #	Borough	Receiving Waters	Weather	Facility Type
February 04, 2010	AK-005057	N/A	E. Fork Slate Creek	Light snow, then fine, temp ~ 32F. Had been light snow.	Tailings Treatment Facility
Discharges to: Surface Water <input checked="" type="checkbox"/> Ground Water <input type="checkbox"/>				<b>ANNOUNCED</b> Inspection	

## Section B: Facility Data

Name and Location of Site/ Facility Inspected		Entry Time	Permit Effective Date												
Tailings Treatment Facility (TTF) dam construction and Acid Rock Drainage area adjacent to LSL.	<b>Loc:</b> Lat: 58d 49' 58"N Long: 134d 57' 58"W	08:00	September 1, 2005												
	<b>Source:</b> NPDES permit	<b>Exit Time</b> 13:30	<b>Permit Expiration Date</b> August 31, 2010												
On-Site Representative		Additional Participants:													
Clyde Gillespie, Surface Ops Mgr., Kevin Eppers, Env. Superintendent		Sarah Samuelson, USFS													
Responsible Official(s):		<table border="1"> <thead> <tr> <th></th> <th>Yes</th> <th>No</th> </tr> </thead> <tbody> <tr> <td>Samples Taken?</td> <td></td> <td>X</td> </tr> <tr> <td>Photos Taken?</td> <td>X</td> <td></td> </tr> <tr> <td>Analytical Results?</td> <td></td> <td>X</td> </tr> </tbody> </table>			Yes	No	Samples Taken?		X	Photos Taken?	X		Analytical Results?		X
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Samples Taken?		X													
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Clyde: 523-3309 Kevin: 523-3328															

## Section C: Findings/Comments

### FIELD INSPECTION

Boat to the site at 5 AM, arrived at the camp at 7:30 AM, left for the site at 8:30 AM, departed Kensington 11:00 AM and returned to Juneau via USFS chartered Ward Air plane.

#### Construction status:

The dam has been constructed to the final Phase 1 elevation of 690 ft. The trench has been excavated for the Upper Slate Lake bypass pipe Parshall Flume. Over 50% of the pipeline and services trench has been excavated. At the time of the visit 6000' of trench was open and ready for pipelaying.

#### Construction activities in progress:

Coeur construction personnel Byron Hatley and Jeff Stacy accompanied us around the site. The last of the Zone A rock for the dam was placed on Friday; the dam elevation for this phase, Phase 1, is 690 feet. The final height for Phase 3 is 740 feet. Water was being pumped, as necessary, from the Tailings Treatment Facility (TTF) from the sump behind a sand filter to East Fork Slate Creek. Water is also pumped from the sump below the dam directly to East Fork Slate Creek. Some iron coloration was noted in a drainage from the cofferdam on the west abutment; Clyde informed us that the pH of this water was quasi neutral and the iron color was probably attributable to the reducing conditions in the soils beneath the cofferdam.

#### Grout trench

Equipment for the grout trench is to be delivered soon, and the excavation work for the grout trench is to commence within next 1-2 weeks.

Upper Slate Lake bypass channel

The trench for the bypass pipe channel and Parshall Flume had been excavated, but there was no work being done on it at the time of the site visit. The Parshall Flume had been put in position, but it will be lifted out and set into concrete when the channel is formed.

Proposed construction activities for the following 1-2 weeks:

Work may commence on the grout trench depending on equipment delivery. Work will continue on pipe and services laying for the tailings slurry line.

**Other:**

ARD site seep water treatment

The seep water treatment plant was operating at 5.3 gpm, the average for the 24-hour period was 5.7 gpm. The influent pH is around 2.6. The plant is kept running at a fairly steady rate, rather than in batch mode, to keep all processes operating efficiently and effectively.

Graphitic Phyllite storage cell:

The small shed was in place over the sump to allow easy access to the sump and protection from the elements. Water from the remediation cell was trickling into the sump and being pumped to the 20,000-gallon storage tank. There was no flow from the pipe capturing seepage water from the graphitic phyllite pile.

Storm water

Winter snow/freeze/thaw resulted in water running down the road and localized ponding, but nothing was noted of great concern; a storm water maintenance crew maintains the BMP's and cuts channels through the snow berms to aid diversion of water off the roads.

**SAMPLING ACTIVITIES** – None conducted.

**SUMMARY**

**Any issues requiring action by Coeur or the state agencies?**

1. Continue storm water maintenance activities to ensure water does not form rivulets running down the wheel tracks of roads and is able to exit the road through the snow berms. Consider re-grading or adding material to the road from Slate Creek Cove where water appears to be ponding in the middle of the road, and maintain side drainage channels through the snow berm on this road to minimize ponding at low points.

Section D: Compliance/Recommendations

**ADMINISTRATIVE VIOLATIONS**

None

**POTENTIAL WATER QUALITY VIOLATIONS**

None.

Section E: Appendices

- 1: Photographic record.

Signature



02/10/10

Inspector  
Division of Water

Date

Signature only acknowledges receipt of this report. Inspection report given to:

Company (if applicable):

Date

**PHOTO ADDENDUM – KENSINGTON TAILINGS DISPOSAL FACILITY –DECEMBER 10, 2009**



**PHOTO 1. DAM SITE FROM TTF SIDE**



**PHOTO 2. DAM FROM EAST EMBANKMENT**



**PHOTO 3. DAM SITE FROM DOWNSTREAM SIDE**



**PHOTO 4. TRENCH AND PARSHALL FLUME FOR USL BYPASS**



PHOTO 5. DOUBLE-WALLED TAILINGS PIPE



PHOTO 6. PIPE TRIMMER/WELDER



PHOTO 7. JOINT COOLING DOWN



PHOTO 8. HUT AT GRAPHITIC PHYLLITE AND SUMP