KENNECOTT
LICENSE CONDITION PROPOSED CHANGES

9.10 Decommissioning of the facility shall be performed as presented in the Final Design, Volume VI, Part 2-Mill Decommissioning Addendum to the Existing Impoundment Reclamation Plan, submitted May 28, 1998, as supplemented by the response to comments submitted February 3, 1999, and the catchment basin remediation plan dated May 12, 2004, as revised July 22, 2004, December 15, 2004, January 18, 2005, and October 3, 2006. ~~The verification results of this remediation are to be submitted to NRC for approval, as soon as reasonably possible.~~ The catchment basin verification report and NRC's approval letter shall be referenced in the Final Status Survey Report. Residual contamination remaining under structural foundations after the catchment basin remediation shall be removed at the time the structures are decommissioned. The NRC shall be notified and detailed SOPs for decommissioning (land and buildings) shall be available for review at least three (3) months before decommissioning begins.

~~11.4~~11.3 The licensee shall ~~conduct a~~fully characterize the areal extent of ground-water contamination associated with the site and prepare and submit a revised corrective action program (CAP) ~~with the objective of returning the ground-water concentrations of chromium, natural uranium, and combined radium-226/228~~ to the ~~levels~~NRC for review and approval that will achieve compliance with the approved ground-water protection standards for the site. ~~referenced in Addendum to the Revised Environmental Report, Background Ground Water Quality and Detection Standards, January 1996, as revised by page changes January 8, 1998 (approved by the NRC letter of May 28, 1998), and the catchment basin ground-water corrective action plan dated May 12, 2004, as revised July 22, 2004, December 15, 2004, and January 18, 2005~~The revised CAP shall propose acceptable methods to achieve and demonstrate compliance for those parameters in exceedance of the corresponding ground-water protection standard and also include a time limit to reach compliance. A report on the full areal extent of ground-water contamination shall be submitted to NRC for review and approval within six months of receipt of the approved license. The revised CAP shall be submitted to the NRC for review and approval within six months of NRC's approval of the aforementioned ground-water contamination report.

~~The ground-water protection standards at~~ Until a revised CAP is approved by NRC, point of compliance (POC), monitoring, and pump-back wells for the existing tailings impoundment shall continue to be sampled at the locations, at the frequency, and for the parameters provided in Table 5-1 (for existing impoundment) of the Final Design Volume VII, submitted (page change) June 21, 1999. The ground-water protection standards at ~~point of compliance (~~POC~~)~~ wells TMW-15, 16, 17, and 18~~, with background being defined in the above Addendum~~ are: arsenic = 0.05 mg/L, beryllium = 0.01 mg/L, cadmium = 0.01 mg/L, chromium = 0.05 mg/L, lead-210 = 8.9 pCi/L, nickel = 0.01 mg/L, combined radium-226/228 = 5.8 pCi/L, selenium = 0.01 mg/L, thorium-230 = 7.0 pCi/L, natural uranium = 36.0 pCi/L, and gross alpha = 15.0 pCi/L, manganese = 0.2 mg/L, and iron = 0.6 mg/L. ~~Pump-back wells may be added or removed from service with the goal of improving the performance of the CAP. POC, monitoring, and pump-back wells shall be sampled at the locations, at the~~

~~frequency, and for the parameters provided in Table 5-1 (for existing impoundment) of the Final Design Volume VII, submitted (page change) June 21, 1999.~~ Reporting limits for sampled constituents shall be as provided in Table 5-11 of the Final Design Volume VII, submitted April 13, 1998. ~~The~~ Also, until a revised CAP is approved by NRC, the catchment basin pump-back wells and monitoring wells TMW-92, 93, 94, 95, 97, 98, 99, 100, 101, 104, 111, 112, 113, and 115 will be sampled quarterly for diesel range and gasoline range organics and volatile organic compounds, in addition to the constituents specified above ~~constituents.~~for the existing tailings impoundment. The additional ground-water protection standards to be used to assess data from these wells are as follows: 1,1-dichloroethane = 3.0 mg/L, 1,1-dichloroethene = 0.007 mg/L, DRO = 10 mg/L, GRO = 10 mg/L, naphthalene = 1.5 mg/L, toluene = 1 mg/L, 1,1,1-trichloroethane = 0.20 mg/L, 1,2,4-trimethylbenzene = 0.012 mg/L, 1,3,5-trimethylbenzene = 0.012 mg/L, m+p xylenes = 10 mg/L, manganese = 0.2 mg/L, aluminum =1.8 mg/L, and iron = 0.6 mg/L.

[Applicable Amendments: 17, 21, 22, 34]

11.4 ~~Upon resumption of milling operations, the licensee shall implement a ground-water detection monitoring program for the tailings impoundment and evaporation ponds to ensure compliance with 10 CFR 40, Appendix A, in accordance with the Addendum to the Revised Environmental Report, Background Ground Water Quality and Detection Standards, January 1996, as revised by the submittals of January 8, 1998, and March 25, 1999; and conduct an environmental monitoring program in accordance with on-file SOPs for environmental monitoring, and in accordance with Table 5-2 of the Final Design Volume VII, submitted (page change) June 21, 1999.~~

No later than 180 days prior to the planned resumption of milling operations, the licensee shall update and submit to NRC for review and approval a revised ground-water detection monitoring program plan for the tailings impoundment and evaporation ponds referenced in license condition 10.3 to ensure compliance with 10 CFR 40, Appendix A, Criteria 5B(1) and 7A or, per the general provisions of 10 CFR 40, Appendix A, propose alternatives to these specific requirements for consideration by NRC. Resumption of milling operation shall be contingent upon NRC approval of the revised ground-water detection monitoring program plan.

In addition, no later than 180 days prior to the planned resumption of milling operations, the licensee shall update and submit to NRC for review and approval revised operational environmental air sampling (including direct radiation, soil and vegetation) and air effluent program plans. The operational environmental air sampling program plan shall describe operational environmental air sampling stations consistent with the wind rose provided in the Environmental Report. The air effluent program plan shall discuss how the licensee will survey the quantities of air effluent release to the environment from plant operations and operational tailings impoundment in accordance to 10 CFR 40.65 and demonstrate compliance with radiation protection standards in 10 CFR 20.1301 and 10 CFR 20.1302. Resumption of milling operation shall be contingent upon NRC approval of the revised operational environmental air sampling and air effluent program plans.

For all other categories of environmental monitoring, the licensee shall upon resumption of milling operations conduct an environmental monitoring program in accordance with on-file SOPs for environmental monitoring, and in accordance with Table 5-2 of the Final Design Volume VII, submitted (page change) June 21, 1999.

[Applicable Amendment: 17, 34]