



Norman H. Bangerter
Governor
Dee C. Hansen
Executive Director
Dianne R. Nielson, Ph.D.
Division Director

355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
801-538-5340

December 2, 1991

TO: Pamela Grubaugh-Littig, Permit Supervisor

FROM: Jesse Kelley, Reclamation Engineer *JK*

RE: Approval of As-Built Drawing of Permanent Impoundment (Amendment 91A), Andalex Resources, Inc., Wildcat Loadout, ACT/007/033, Folder #2, #3
Carbon County, Utah

Synopsis

In January of 1990, Division personnel discovered that the permanent impoundment at the west end of this site did not have adequate capacity for the canyon which it treats. To remedy this inadequacy, the operator proposed, on June 8, 1990, an enlargement of the permanent impoundment and the use of a shallow depression below it in order to achieve the desired capacity. Plans for implementation of this proposal were approved on September 13, 1990.

The permanent impoundment was enlarged and the shallow depression created in May of 1991. Spillways were installed both in August of 1991. On November 15, 1991, the operator submitted, for Division approval, a detailed as-built drawing of the two impoundment systems. This memorandum constitutes this writer's approval of the as-built drawing.

Analysis

The permanent impoundment and the shallow depression together constitute a two-cell sediment pond. They are separated by a primary road and connected by 18-inch diameter emergency and principal spillways from the permanent impoundment. The shallow depression is equipped with a riprap spillway which serves as both principal and emergency spillway, in accordance with R614-301-742.223.

The permanent impoundment sits approximately 10 feet above the shallow depression. The former has a capacity of 0.43 acre-feet and the latter 0.53 acre-feet. Division Hydrologist Thomas Munson has assured the writer that these capacities are adequate. Mr. Munson has also assured the writer that the spillways are adequately sized for the anticipated maximum runoff.

The as-built drawing itself was prepared and certified by Dan W. Guy, who is a licensed professional engineer and has a great deal of experience with impoundment construction. The drawing shows plan views and sections of both impoundment cells as well as cross sections of spillways and embankments, spillway elevations, and water level elevations.

Recommendations

It is recommended that the as-built drawing of the permanent impoundment be approved and included in the PAP.

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