7.3.5.3 Checklist for Mining Dewatering Water Use This checklist is for a typical project. Complex projects, large withdrawals, or withdrawals in sensitive areas may require additional information. Only the applicable information need be submitted.

A. General

1. Explain in detail why dewatering is necessary. Indicate the method of excavation.

2. Explain briefly the derivation of the requested annual demand and average daily withdrawal.

3. Indicate the maximum daily pumpage and how it was derived.

4. Indicate the source of water.

B. Location

1. Provide a location map.

2. Provide a site map, showing pit area (existing and/or proposed dimensions, including maximum depth of excavation); stockpile area; dikes and levees (cross sections designating height, width, side slopes); retention/detention area location and linear extent; pumps; culverts; structures (with numbers to correspond with Tables A and B); ditches; and canals (designating side slopes and dimensions including height, width and depth).

3. Provide an aerial photo and topographic map of the site.

C. Facilities

1. Describe all existing and proposed surface water pumps by completing Table B.

2. Describe all existing and proposed culverts by completing Table C.

D. Operation Description

1. Indicate the elevation to which the ground water level will be drawn down as a consequence of dewatering. Indicate the maximum depth of the pit to be excavated.

2. Describe how discharge turbidity will be controlled.

E. Historical Information - Water Problems

1. Provide information on past construction and practices, pumpage, and pollution.

2. Describe any water problems that have occurred within one mile of the project site.

F. **<u>Water Table/Geologic Borings Data</u>** Provide information on wet and dry season water table elevations. Include logs and attach data of borings that have been made at the pit site.

G. **<u>Drainage System (Stormwater)</u>** Indicate the routing of stormwater and retention/detention system facilities. Provide computations.

H. **<u>Structural Stability</u>** Provide information on the structural stability of dikes, levees, structures and pit slopes.

I. **<u>If a Landfill Operation in Conjunction with the Mining/Dewatering Project (in addition to above detailed requirements) is proposed, provide the following</u>** --

1. Landfill location map and site map.

2. Date landfill started operating.

3. Expected life of landfill.

4. Type of waste accepted (please indicate the type of waste accepted in the past if different from waste accepted presently).

5. Methods of waste disposal, indicating how and where the waste is and has been buried. Elaborate on waste buried below the water table.

6. Site engineering plans and information, to include:

    a. Groundwater pollution control measures.

    b. Leachate collection system and treatment. Has leachate been found at the site? And:

    c. Location and type of liners.

7. Monitoring program for groundwater pollution control. If any:

   a. Please indicate location of monitoring wells on a map showing areal extent and location of landfill.

   b. Provide well logs and well construction detail.

   c. Supply all water quality and water level data collected during the monitoring program. And

   d. Supply any additional information or reports related to the effect of the landfill on groundwater quality or levels.

J. <u>Evaluation/Impact</u>

1. Will the dewatering operation affect off-site building foundations?

2. Will the dewatering operation significantly affect adjacent lakes, domestic water use, or irrigation wells?

3. Will the dewatering operation cause saline water intrusion or potable water to be discharged to tide water?

4. Will the dewatering operation impact environmental features that have either a direct or indirect relationship to the water resources of the District (wetland habitat, natural water bodies, intermittent ponds, upland areas), preferred habitats for rare, endangered or threatened species?