

Exhibit N
Response to COE Question 10

TEMPORARY FILLS

COE Question 10:

"Describe any temporary fills in Sand Creek needed to access the area to be dredged near the shoreline extension. To evaluate your application, we need specific details of these temporary fills and an evaluation of their impacts to navigable waters. We also need you to clarify whether the toe of the shoreline extension fill will be removed as temporary fill as shown on Figure 24, or whether the toe will be a permanent fill as shown on Figure 25. The two drawings appear to show conflicting information. Please advise which is correct, and revise the other drawing.

In the shoreline extension area, there are 2 types of dredging. Type A – Channel Hydraulics Dredging and Type B – Bank Stabilization Dredging and Fill Benching Dredging. All dredging will be completed during winter low water periods. Winter low water ranges from 2051 feet to 2055 feet."

Response:

Type A – Channel Hydraulics Dredging

The envisioned access to the channel dredging area would be developed from the roads and parking areas within the construction easements on the west bank on Sand Creek. This access would allow deployment and removal of the inflatable cofferdam system as well as the actual dredging. The access envisioned would be accomplished by deploying modular crane mat units (timber assemblies approximately 20' long x 8' wide x 1' thick or similar system) in an arrangement appropriate for workers and small to medium equipment to access the limits of the work area. The crane mats distribute the construction loading to the exposed creek bed at sufficient low ground pressures to adequately support the work activities. The crane mat arrangement would be placed on the sand bar in areas that are exposed and above the winter water level. Due to the small quantity of dredging, the duration of the cofferdam and crane mats being in place should be quite short. For purposes of rearranging the crane mats for the dredging operation, the excavator can move the mats in a "leap frog" fashion such that the entire dredging footprint does not require coverage but rather only pathways for the excavator to work from and trucks to back to it.

Type B – Bank Stabilization Dredging

Access to Bank Stabilization Dredging for placement of the bank stabilization features of the shoreline extension toe would either be from the newly placed

shoreline extension permanent fill or from temporary fill placed between the sheet pile cofferdams. The sheet pile cofferdams will be placed during winter low water periods as well as most the temporary fill between the sheet pile cofferdam. This temporary fill material is a washed rock fill.

Type B - Fill Benching Dredging

As the permanent material is placed for the shoreline extension, it will serve, as a platform for equipment for the fill benching dredging required on the east bank of Sand Creek. Access to this area will be from the Depot road, located on the east bank of Sand Creek.

Navigable Water Impacts

Construction activities for dredging will not occur when Sand Creek is at the reservoir controlled ordinary high water elevation of 2062.5 feet. Sand Creek would continue to be as navigable during the winter months while construction is taking place as it is currently. Therefore, dredging or temporary fills will not affect navigability.

Shoreline Extension Toe

The toe of the Shoreline Extension is permanent fill. Figure 24 has been revised and attached to show the proposed bank stabilization dredging (Type B dredging) and proposed riprap (fill) at the toe location.