

3.0 WETLAND RESOURCE AREAS

A wetland ecologist from Coler and Colantonio, Inc. delineated wetland resource areas within the project corridor on April 28, 2006 and May 9, 2006. Wetland boundaries for Sites #3, #5, and #6 were delineated according to the DEP publication *Delineating Bordering Vegetated Wetlands* (1995) under the Massachusetts 310 CMR Wetland Protection Act (WPA) as well as the Town of Seekonk Wetlands By-law and Regulations.

3.1 Site #3: South of Ledge Road

The resource area "Bank" associated with the Runnins River that flows in a southerly direction is located adjacent to the Site #3 anomaly. The resource area was delineated on April 28, 2006 with 15 pink nylon survey flags numbered sequentially CH1-1 to CH1-15. The site is maintained as a lawn with planted Eastern hemlock (*Tsuga Canadensis*) and oak (*Quercus* spp.) trees in the overstory. Temporary disturbance to the 25-foot and 100-foot buffer zones were calculated at 1,159 square feet and 1,388 square feet, respectively. Riverfront Area associated with the Runnins River is also present in this location. Temporary disturbance to the inner 100-foot riparian zone was calculated at and 2,947 square feet. No work is proposed in the outer 100-foot riparian zone.

3.2 Site #5: Ledgemont Country Club

The wetland series associated with Site #5 at the Ledgemont Country Club was delineated on April 28, 2006 with 19 pink nylon survey flags numbered sequentially WFB-1 to WFB-19. The BVW is classified as a palustrine scrub-scrub wetland dominated by Northern arrowwood (*Viburnum dentatum*), highbush blueberry (*Vaccinium corymbosum*), and speckled alder (*Alnus rugosa*) with a herbaceous understory of sphagnum moss (*Sphagnum* spp.) and sedge species. Temporary disturbance to the 25-foot and 100-foot buffer zones were calculated at 945 square feet and 640 square feet, respectively.

3.3 Site #6: South of Cedar Hill Terrace

The wetland series associated with Site #6 was delineated on May 9, 2006 with five pink nylon survey flags numbered sequentially WFA-1 to WFA-5. Dominant vegetation within the wetland includes Northern red maple (*Acer rubrum*) in the overstory with a mixed shrub layer of spicebush (*Lindera benzoin*), green ash (*Fraxinus pennsylvanica*), and common winterberry (*Ilex verticillata*). Temporary disturbance to the 25-foot and 100-foot buffer zones were calculated at 875 square feet and 1,770 square feet, respectively

4.0 PROPOSED WORK

The three anomalies located adjacent to Ledge Road and Cedar Hill Terrace and beneath the fairway associated with the Ledgemont Country Club were identified during routine line testing/review. The Mobil Pipe Line Company/contractor will verify the location of the excavation sites and check all field measurements and construction staking before beginning construction. Minimal site work associated with each of the three sites will include the excavation of an approximately 10-foot x 10-foot (100 square feet) area at each location in order to inspect and repair the sections of pipeline and to allow for the safe access of personnel. Anomaly repair will included preparation of 0.5-inch thick sleeves of appropriate length to be welded around the circumference of the pipeline to protect the integrity of the pipe wall in the identified anomaly locations. The overall work area for each site will be approximately 20 feet by 60 feet in order to accommodate the equipment necessary to replace the pipeline as well as to

include excavation spoils that will be placed within close proximity to the work site in a controlled area.

Groundwater will be removed from the site and pumped to an outlying area where it will be filtered through hay bales prior to discharge in order to maintain water quality. Erosion and sedimentation controls in the form of staked hay bales will be implemented on-site in order to prevent alteration of the surrounding wetland resource area. Dewatering activities are associated with the proposed work, and will be set up in such a manner that the resource areas are not adversely affected.

5.0 EROSION AND SEDIMENTATION CONTROLS

Staked hay bales and silt fence will be installed at the limits of the work area at each site prior to the commencement of construction (See Section III, Figure 4 and Section VI, Project Plans). Earth moving activities will be conducted only after erosion controls are installed and inspected.

6.0 GENERAL CONSTRUCTION SEQUENCE

The following section provides construction details and highlights the construction sequence and timing of earthmoving activities.

6.1 Installation of Erosion Controls

Sedimentation control barriers will be installed and inspected at the limits of work prior to the commencement of earth moving activities.

6.2 Existing Utility Location

All existing active sewer, water, gas, electric, and other utilities, where encountered during the site construction, shall be marked, recorded, and protected at all times. The contractor shall record all existing utilities on the construction documents.

6.3 Clearing

Minimal clearing is anticipated due to the fact that all three sites are located within previously disturbed, maintained pipeline ROWs.

6.4 Dewatering Areas

The dewatering structures will be located outside of wetland resource areas at each of the proposed work locations and will be constructed of silt fence and hay bales to filter ground water seepage pumped from the excavated pits to avoid impacts to water quality.

6.5 Anomaly Repair

Approximately 10-foot by 10-foot pits will be excavated over each anomaly. Excavation will be limited to that size necessary for inspection of the pipeline, the repair of the anomaly, and the replacement of the damaged pipeline. Anomaly repair includes preparation of 0.5-inch thick