APPENDIX G
MANAGEMENT OF INVESTIGATIVE-DERIVED WASTES AND SURVEY DATA

PORT UPLANDS AREA

SURVEY

Soil explorations and monitoring well locations for the Area RI were surveyed by a licensed surveyor, including the collection of horizontal coordinates (x,y) using the Washington State Plane coordinate system and ground surface elevations relative to mean lower low water (MLLW). Additionally, the elevation of the top of the PVC casing at each of the monitoring wells was surveyed by the licensed surveyor and used as water level measurement reference points. Surveyed coordinates for soil sampling locations and groundwater monitoring wells, and reference elevations for groundwater monitoring wells and soil borings are provided in Table 11.

RESIDUAL WASTE MANAGEMENT

Investigation-derived wastes including soil, purge water, and decontamination water generated during the soil investigation, well development, and the first groundwater monitoring event were contained in 55-gallon drums and stored offsite in a secure warehouse located in Anacortes and owned by the Port. On July 19, 2004, 19 drums of soil were transported by TPS Technologies to TPS Technologies' soil treatment facility in Tacoma, Washington and treated by thermal desorption prior to recycling or disposing of the material. Also, on July 19, 2004, 10 drums of investigation-derived waste water were transported by Envirotech to Pacific Industrial Resources/Puget Sound Recycling located in Auburn, Washington for treatment prior to recycling or disposing of the material.

Purge water generated during the second and third groundwater monitoring events was contained in 55-gallon drums and securely stored in an offsite warehouse. On July 20, 2005, 1 drum of investigation-derived waste water transported by Envirotech to Pacific Industrial Resources/Puget Sound Recycling located in Auburn, Washington for treatment prior to recycling or disposing of the material.
Purge water generated during the fourth groundwater monitoring event is currently contained in a 55-gallon drum and securely stored in an offsite warehouse. The purge water will be disposed of in accordance with applicable rules and regulations.

MJB NORTH AREA

SURVEY

In the MJB North Area, the horizontal location and approximate surface elevation of the center of the monitoring wells were recorded by Anchor using a differential GPS surveying instrument. In addition, the existing groundwater monitoring wells were surveyed by Herrigstad Engineering of Anacortes, Washington. For consistency, the new groundwater monitoring wells were measured for horizontal location using State Plane North Coordinates, and the well casing (known as the "top of casing" or TOC) was surveyed to the nearest 0.01 foot relative to mean low low water using NGVD88. The TOCs on the existing wells were also resurveyed. After completion of the direct push probes, Geomatrix staff coordinated the survey of the sample locations using Herrigstad Engineering. This survey is compatible with the previous survey method used onsite for the monitoring well locations.

RESIDUAL WASTE MANAGEMENT

The RI drilling and sampling at the MJB North Area generated the following investigation-derived waste (IDW):

- Soil and drilling cuttings (spoils) – five 55-gallon drums
- Groundwater (development water and purge water) – four 55-gallon drums
- Decontamination water – two 55-gallon drums
- Personal protective equipment (PPE) and other disposable waste (e.g., tubing from groundwater sampling).

All IDW generated by field investigations was properly handled and disposed of or will be disposed of according to local, state, and federal laws.

IDW generated during field activities was stored in Department of Transportation-approved 55-gallon drums and left on site. Drums will be kept onsite until adequate characterization of the contained IDW is completed. Drum labels were placed on the side of each drum and include information on the type of IDW stored in the drum, the well number, the date of waste generation, and a contact phone number. Disposable PPE and other wastes were placed into plastic bags and disposed of as non-hazardous solid waste.