

APPENDIX F NON-ROUTINE SERVICES

'Non-Routine Services' means Services and maintenance that cannot be performed by the staffing assigned to carry out Routine Services and the other duties of the operator. Non-Routine Services require expertise or other resources not required of the Operator as it carries out its day-to-day duties and responsibilities.

Task 1 - General Administrative

- Investigations, beyond routine, into conditions of the cover exhibiting the following:
 - Damage
 - Settlement
 - Erosion
 - Evidence of ponded water
 - Odors
 - Exposed wastes
 - Cracks
 - Slope failure or slippage
 - Leachate seeps
- The preparation of cost estimates for damage and repairs that are non-routine
- The preparation of site specific repair plans

Task 2 - Site Security Operations and Maintenance Services

- Repair/Replace damaged fencing

Task 3 - Operations and Maintenance of the Final Cover System

- Repair as needed all graveled access roads and benches
- Repair as needed all:
 - Geosynthetics

When damage to the cover system is identified, the Operator shall prepare a scope and cost for services to be submitted to the RECEIVER/TRUSTEE. In addition, prior to starting maintenance or repair operations, the Operator shall prepare and submit, as part of the Site Specific Repair Plan, a plan drawing to the RECEIVER/TRUSTEE with a typical detail for crossings over paved swales that will be traveled by mobile equipment to gain access to the Ordot Closure Facility areas. The Operator shall also provide a description of the preventive measures to be taken to avoid damaging them. The site specific repair plan shall be approved by the RECEIVER/TRUSTEE prior to the start of final cover maintenance and/or repair work.

Task 4 - Groundwater and Surface Water Monitoring System Operations, Maintenance, and Monitoring Services

If conditions in the water table beneath the Ordot Dump change in such a manner that water samples can no longer be collected from a well, the Operator shall notify RECEIVER/TRUSTEE immediately. The Operator shall provide RECEIVER/TRUSTEE with a proposal, including a scope and cost estimate to repair non-routine well damage or replace damaged wells as Non-Routine Services.

Well Re-Development

On an AS-NEEDED basis, the Operator shall re-develop wells that become filled with sediment as Non-Routine Services. The Operator shall provide costs for well development at such times. Well development shall include sediment removal, screen interval swabbing with a vented surge block, and water extraction to improve water clarity. for the purposes of each

proposal, the Operator shall assume to use a locally-available drilling contractor, and that well development services will require eight (8) hours per well.

Installation of New Groundwater Monitoring Wells

The site is currently equipped with 10 monitoring wells which are used for groundwater sampling. Should the monitoring network cease to provide the required release detection or evaluation capability, additional monitoring wells would need to be constructed. Should it be required, the Operator shall provide a cost estimate for construction of a monitoring well that includes the following assumptions:

- The Operator shall prepare the necessary well construction permit application and pay the application processing fee for GEPA.
- The Operator shall be responsible for conducting an underground utility survey and clearance for the well drilling site.
- The Operator shall contract with a qualified environmental drilling contractor.
- The Operator shall determine the necessary well depth, and it would be constructed to the same specifications that were used to construct the existing site monitoring wells, including borehole diameter, well casing and screen materials, filter pack type, sealing material, monument, and surrounding bollards.
- The Operator shall develop the well until water quality parameters are stable and the water is visibly free of silt.
- The Operator shall equip the new well a dedicated, 1-inch diameter, PVC bailer.
- The Operator shall prepare a geological log of the well boring, a well construction log, and complete a Well Completion Report for submittal to RECEIVER/GSWA and GEPA/EPA.

These assumptions shall be in effect during the term of the contract and shall apply to any and all wells that are required to be drilled or replaced during the Operator's term of service.

Abandonment of Groundwater Monitoring Wells

If, during the course of the contract, a groundwater monitoring well becomes non-functional, the Operator shall notify the RECEIVER/GSWA of the need to abandon the well. Should it be required the Operator shall provide a cost estimate for abandonment of a monitoring well that is based on the following assumptions:

- The Operator shall prepare the necessary well abandonment permit application and pay the application processing fee for GEPA.
- The Operator shall contract with a qualified environmental drilling contractor.
- The Operator shall abandon the well using over drilling and grouting techniques. For purposes of this proposal, the Operator shall assume a well depth of 60 feet.
- The Operator shall be responsible for removal and appropriate disposal or recycling of all well materials, including the dedicated bailer, well monument, well casing, concrete pad, and bollards.
- The Operator shall prepare a well abandonment report for submittal to RECEIVER/GSWA and GEPA/EPA.

These assumptions shall be in effect during the term of the contract and shall apply to any and all wells that are required to be abandoned during the Operator's term of service.

Task 5 - Landfill Gas Monitoring System Operations, Maintenance and Monitoring Services

If a condition at a probe prevents the ability to collect a sample, the Operator shall notify RECEIVER/GSWA immediately. The Operator shall provide RECEIVER/GSWA with a scope and cost estimate to repair well damage or replace damaged wells.

Task 6 - Gas Collection and Control System

Operator shall provide staff with an experience and skill level defined in Section 2.2 for the performance of Task 6 Non-Routine Services. Operator's services shall include Administration/Management/Supervision/Office Support Staff time necessary for the work.

The bid shall include a schedule of labor and equipment rates, and subcontractor markup rate, necessary for the completion of Task 6 services.

General Scope of Work for Task 6

Operator shall provide as requested by RECEIVER/TRUSTEE, on-call support services, including: manpower; equipment; instrumentation; and materials in accordance with the fee Schedule for this task and the rate schedule supplied by Operator. This work shall occur only after approval from RECEIVER/TRUSTEE. Non-routine maintenance and repairs may include but not be limited to:

1. Providing qualified personnel that shall respond to the LFG flare alarms (24 hours per day, seven days per week). Operator shall respond to the call out and be on-site within four (4) hours' notice in the event of emergency repairs associated with the flare system.
2. Attending meetings with the GEPA or other agency staff.
3. Operator shall provide laborer(s) and technicians(s) for duties associated with the non-routine maintenance of the LFG or the leachate collection and removal system (LCRS). At RECEIVER/TRUSTEE request, Operator shall:
 - a) Attend meetings with RECEIVER/TRUSTEE, to review status/condition of the LCRS or LFG system.
 - b) Provide written recommendations for repairs or upgrades that are outside the routine maintenance tasks.
 - c) Provide laborers and technicians to undertake projects requested by RECEIVER/TRUSTEE, including, but not limited to:
 - o Disconnection and removal of lateral collection pipes from LFG and LCRS extraction wells;
 - o Extension of vertical extraction wells to facilitate refuse settlement;

- Reconnection of lateral collection pipes;
- Installation of heavy equipment crossings;
- Repair of damaged LFG and LCRS extraction system components; and
- Connection of new LFG and LCRS wells to the system

Task 7 - Settlement and Survey Monument Inspections and Monitoring

If areas of ponding or excessive settlement are identified, the Operator shall conduct a field survey to determine the area and extent of ponding/settlement, and shall submit to the RECEIVER/TRUSTEE a scope of work and cost estimate to repair these areas. Repairs to the landfill cover system shall follow the guidelines in Section 6.1 of the FPCMP.

- Additional settlement surveys conducted other than annual surveys for the purpose of evaluating settlement are non-routine.
- Repair/Replace settlement monuments located on the top deck of the closure system
- Repair/Replace bollards protecting the settlement monuments

Task 8 - Surface Water Drainage System Monitoring and Maintenance

On an as-needed basis, the Operator shall repair or replace worn or damaged drainage facilities. When damage or wear that significantly decreases the function of a drainage system component is identified, the Operator shall prepare a scope of work and cost estimate for review and approved by the RECEIVER/TRUSTEE. The cost for this work should include engineering/design, construction, and inspection costs.

- Repair/Replace:
 - Swales, downdrains
 - Manholes
 - Pipe,
 - Energy dissipaters
 - Pond outlet and inlet structures
 - Sediment removal from ponds that exceed 1 foot in depth for a ≥ 20 year storm event
 - Wetland plants
 - Western Channel

Task 9 - Leachate Collection and Removal System Operations, Monitoring, and Maintenance

- Repair/Replace:
 - Tanks and appurtenances
 - Pumps and appurtenances
 - Leachate control system and associated components such as pressure gauges
 - Standby Generator System

Task 10 - Quarterly and Annual Consolidated Report Preparation