

## EXHIBIT 1 – SCOPE OF WORK

| ACTIVE SANITARY LANDFILLS |                               |                               |
|---------------------------|-------------------------------|-------------------------------|
| Barstow Sanitary Landfill | Mid Valley Sanitary Landfill  | Victorville Sanitary Landfill |
| Landers Sanitary Landfill | San Timoteo Sanitary Landfill |                               |

| TRANSFER STATIONS                           |                                       |                                    |
|---------------------------------------------|---------------------------------------|------------------------------------|
| Baker Transfer Station                      | Newberry Springs Transfer Station     | Twenty-Nine Palms Transfer Station |
| Big Bear Transfer Station                   | Sheep Creek Transfer Station (Phelan) |                                    |
| Camp Rock Transfer Station (Lucerne Valley) | Trails End Transfer Station (Morongo) |                                    |
| Heaps Peak Transfer Station                 | Trona – Argus Transfer Station        |                                    |

| CLOSED LANDFILLS |                  |                   |
|------------------|------------------|-------------------|
| Apple Valley     | Lucerne Valley   | Trona-Argus       |
| Baker            | Milliken         | Twenty-Nine Palms |
| Big Bear         | Morongo          | Yermo             |
| Cajon            | Needles          | Yucaipa           |
| Hesperia         | Newberry Springs | Colton            |
| Lenwood-Hinkley  | Phelan           |                   |

| DISPOSAL SITES (PRE-SUBTITLE D REGULATIONS) |             |              |
|---------------------------------------------|-------------|--------------|
| Cedar Springs                               | Heaps Peak  | Parker Dam   |
| Cooley Ranch                                | Joshua Tree | Plunge Creek |
| Crestline                                   | Mill Creek  | Wrightwood   |
| Crestmore                                   | Oak Glen    |              |

This scope of work includes, but is not limited to, the following tasks.

### **TASK 1.0: Geotechnical, Geologic and Hydrogeological Engineering Services**

Under this Task the Vendor shall conduct geotechnical, geologic, and hydrogeological studies to characterize geotechnical site conditions and provide analysis and conclusions in support of the project designs. This task includes, but is not limited to the following:

#### Geotechnical Studies including:

- Field surface and subsurface investigations.
- Laboratory testing of soils, geosynthetics, and construction materials.
- Geotechnical design and analysis including:
  - Landslide investigation, analysis, and mitigation design.
  - Foundation analysis and design.
  - Seismic evaluation, analysis, modeling and design.
  - Liquefaction analysis.
  - Slope stability analysis.
  - Preparation of Construction Quality Assurance (CQA) plans.
- Test pad construction and evaluation.

- Performance of construction quality assurance monitoring, testing and reporting.
- Perform other geotechnical studies as requested by SWMD.

Geological Studies including:

- Geologic mapping.
- Field surface and subsurface investigations.
- Geophysical surveys and analysis.
- Fault trenching and evaluation.
- Landslide investigation, analysis, and mitigation design.
- Borrow source investigation/material characterization.
- Perform other geologic studies as requested by SWMD.

Hydrogeological Studies including:

- Seepage evaluations.
- Leachate generation analyses.
- Pore pressure analysis within and/or below proposed structures.
- Subsurface drainage design.
- Groundwater/vadose zone Detection Monitoring Program (DMP) evaluation.
- Groundwater/vadose zone Engineering Feasibility Study (EFS) evaluation.
- Groundwater/vadose zone Corrective Action Program (CAP) evaluation.
- Preparation of workplans for groundwater/vadose zone DMP/EFS/CAP.
- Field surface and subsurface investigations.
- Groundwater/vadose zone monitoring well installation, development, testing and abandonment.
- Groundwater/vadose zone sample collection.
- Aquifer testing.
- Analysis of hydrogeologic and groundwater/vadose zone chemical conditions.
- Groundwater modeling.
- Technical support for EMP, EFS and CAP activities.
- Perform other hydrogeological studies as requested by SWMD.

**TASK 2.0: Miscellaneous Geotechnical, Geologic, Hydrogeological Engineering Support Services**

Under this Task the Vendor shall provide miscellaneous geotechnical, geologic, and hydrogeological engineering support services and other solid waste related services as required. This task includes, but is not limited to, the following:

- Prepare corrective actions reports.
- Provide litigation support.
- Coordinate with other firms.
- Perform unanticipated landfill support services.
- Prepare correspondence and reports to regulatory agencies.
- Assess potential hazardous materials of properties owned or being considered for acquisition by the SWMD.
- Engineering support during bidding and construction.
- General engineering services.
- Project management services.

- Provide regulatory support services.
- Perform other miscellaneous services as requested by SWMD.
- Assist SWMD with the Five-year Permit Review.
- Perform other miscellaneous geotechnical, geologic, hydrogeological engineering services, as requested by SWMD.