

STATUS REPORT
ST. JOHNS LANDFILL
SOILS PROCUREMENT CONTRACT
As of June 1, 1992

1. PROJECT: Closure of Sub-Area 1
2. CONTRACTOR: L & H Grading Inc.
3. PROJECT STATUS:

Contractor was given Notice to Proceed on April 15, 1992 with a required completion date of October 31, 1992. Mobilization commenced immediately as well as preliminary work such as grass cutting.

The major elements of construction on this project will include:

- a1. Stripping and stockpiling existing clay and topsoil.
- b. Placement of a clay barrier.
- c. Installation of a geomembrane liner.
- d. Installation of a geonet drainage layer.
- e. Installation of an even soil profile consisting of 18" of sand and 12" of topsoil including plant cover.
- f. Installation of surface drainage.
- g. Installation of a landfill gas extraction and collection subsystem.

Subcontractor, Donald B. Murphy, Inc. (DBM) started drilling gas extraction wells on April 23, 1992. In Sub-Area 1, the Contractor installed nine (9) single completion wells as indicated on the contract drawings. In Sub-Area 2, the Contractor installed four (4) double completion wells and twelve (12) single completion wells. One of the double completion wells shown on the contract drawings was installed as a single because the depth to the soil layer below the refuse was shallower than anticipated. Metro issued a Change Order to install an additional ten (10) wells, including five (5) double and five (5) single completion wells, in Sub-Areas 4 and 5. These additional wells were installed in order to provide Metro an opportunity to exploit the economic benefits of landfill gas production at an earlier date. DBM completed all thirty-five (35) wells by May 14, 1992.

Concurrently with the drilling, the Contractor employed his own forces installing the perimeter horizontal gas collection pipe. The work began on April 28, 1992 and was essentially complete by May 13, 1992.

The Contractor started stripping topsoil on the slopes of Sub-Area 1 on May 11, 1992, starting on the southern slopes and working clockwise around the Type A cover area. Subsequent operations to prepare the existing clay cover and to repair "thin spots" follow the same pattern. Grading and backfill of the drainage ditch at the toe of the slope adjacent to Haul Road E also occurred during this period. We had estimated that repair of "thin spots" would amount to approximately 15,000 square yards of area. We discovered that the estimate was too optimistic and we have added an additional 6" lift of clay over 23,390 square yards of area.

The contractor also stripped topsoil from the flatter area on top of Sub-Area 1 (Type B). Clay was also stripped from this area, but instead of being stockpiled in Sub-Area 2, was accumulated at the top of the Type A slopes and used to repair thin spots. The clay was also moved by scraper to cover subgrade embankment material being placed to grade in the lower regions of the Type B area.

The Contractor extended a Haul Road from this Sub-Area 3/PLC access constructed by Jersey to Sub-Area 1.

This road was complete by May 20, 1992. Since that time the Contractor has hauled in and place subgrade materials from Angell Brother Quarry.

Two areas in the Powerline Corridor portion of the jobsite, where less than two feet of subgrade embankment was required, and over which we had planned to put in 1" of compacted clay, appeared to be too spongy to compact the clay properly. In those areas, we directed the Contractor to prepare to install bentonite mat. As a result, we will be using approximately 24,500 square yards of bentonite mat instead of the 20,000 square yards which we had estimated in the bid documents.

In spite of the fact that we are covering more of the work area with bentonite mat rather than clay, we are estimating an extra 10,000 tons of clay must be imported to complete the work. This is because we did not recover as much suitable clay as expected from the Type B areas on top and we utilized more clay in repairing the "thin spots" on the slopes and in backfilling and sealing off the perimeter drainage ditch. The Contractor, however, did an excellent job of recovering and reusing the clay.

A summary of quantities which we expect to change is included in the attached Projected Cost Growth Summary. Not included is a projected change due to unforeseen conditions in excavation and construction of the Sedimentation Basin. The Contractor excavated the Sedimentation Basin on May 14th and 15th. The pit filled with leachate to approximately EL 18. Pumping started on May 19 and has essentially continued on a pat-

time to full-time basis since that time. The Engineer is in the process of redesigning elements of the Sedimentation Basin which will allow it to be constructed and remain functional. Costs will not be excessive.

The Contractor has done good quality work, furnished material submittals in a timely manner and has accomplished his work in an organized manner.

He is on or ahead of schedule due to a good effort and the blessing of excellent weather.

This job was 17% complete as of May 25, 1992.

Enclosures:

1. CPM Bar Chart
2. Pay Estimate #2
3. Projected Cost Growth as of May 1, 1992.

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