

CORNERSTONE

Environmental Group, LLC

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July 3, 2008

RECEIVED

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OHIO EPA NEDO

Ms. Karen Naples
Ohio EPA - Northeast District
2110 East Aurora Road
Twinsburg, Ohio 44087

Re: PTI Alteration Request for Phase Development and Stormwater Management
Countywide Recycling and Disposal Facility, East Sparta, Ohio
Project Number 70340.2

Dear Ms. Naples:

On behalf of Countywide Recycling & Disposal Facility (Countywide), Cornerstone Environmental Group, LLC is submitting 4 copies of this PTI Alteration Request for the design of the phase development and stormwater management of the facility. The phasing changes are being made to facilitate efficient landfill operations in the permitted lateral expansion area north of the 88 acre disposal area. The stormwater management system design is being augmented as a result of the revised phasing and the planned capping of the 88 acre disposal area. The revised phase development requires design of temporary leachate collection sumps for Cells 13, 15 and 16 which are included in this submittal. In addition to these items, the south perimeter berm design of Cells 13-15 has been altered to accommodate the future relocation of the East Ohio Gas Company pipeline.

This PTI Alteration Request includes the following information:

1. Engineering plans of the 2008 PTI Alteration Request
2. Slope stability calculations (Attachment 1)
3. Stormwater management calculations (Attachment 2)
4. Temporary leachate sump calculations (Attachment 3)
5. Slope stability calculations for the final cap runout on the south edge of Cells 13-15 (Attachment 4)

<p>SOLID WASTE APPROVED</p> <p>OHIO ENVIRONMENTAL PROTECTION AGENCY</p> <p>AUG 29 2008</p> <p>ALTERS AUTHORIZATION APPROVED</p> <p>DATE <u>6/2/08</u></p>

Each of the above items is discussed in further detail in the paragraphs below.

Engineering Plans of the PTI Alteration Request

The PTI Alteration plans consist of the following sheets:

- Cover Sheet;
- Overall Site Plan, Sheet 3A;
- Top of Liner and Leachate Management System Plan, Sheet 4C;
- Phasing plans 1 – 3, Sheets 6A – 6C;
- Liner, Final Cap System and Perimeter Berm Details, Sheet 7B1;
- Temporary Leachate Sump Details, Sheet 7D1;
- Sedimentation Basin 1-1A Plan, Sheet 7L1;
- Sedimentation Basin 2 Plan, Sheet 7L2;
- Sedimentation Basin 5 Plan, Sheet 7L3; and
- Drainage Details, Sheet 7K.

Slope Stability Calculations

Slope stability calculations have been prepared for the revised phase development and are included in Attachment 1. The calculations are based on similar assumptions as the stability calculations for the PTI Application except that the required shear strength is based on a factor of safety on 1.5 for peak strength conditions on the base of the landfill for liner slopes less than 5% in accordance with OAC 3745-27-08(C)(7)(c). Attachment 1 includes a description of the analysis, supporting figures and cross-sections of the critical locations, slope stability analyses, and the resulting shear strength specifications.

Stormwater Management Calculations

Stormwater management design calculations have been prepared for sedimentation basins 1 – 1A (replacing basins 1 and 1A), 2, and 5 for the revised phase development and anticipated capping and are included in Attachment 2. The design was prepared in accordance with OAC 3745-27-08(D) (3). Attachment 2 includes a description of the design basis, supporting drainage area

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figures, storage sizing calculations and stormwater runoff and routing calculations for the 25-year 24-hour storm and 100-year 24-hour frequency storms.

Temporary Leachate Sump Calculations

Pump cycle time design calculations are included for the temporary leachate sumps proposed for Cells 13, 15 and 16 in Attachment 3.

South Perimeter Berm Design of Cells 13-15

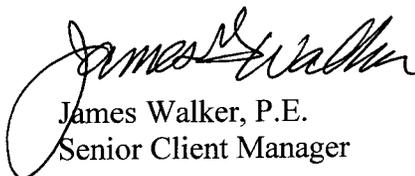
The south perimeter berm design of Cells 13-15 was revised as shown on Sheet 4C to accommodate the future relocation of the East Ohio Gas Company pipeline. The revised detail is shown as detail 2 on Sheet 7B1. The final cap runout will change from a 3:1 (permitted slope) at the solid waste boundary to a 2:1 slope outside the solid waste boundary (for the 14.4 foot long runout of the final cap). Slope stability calculations for the specifications of the 2:1 sloped runout are included in Attachment 4 and noted on Sheet 4C.

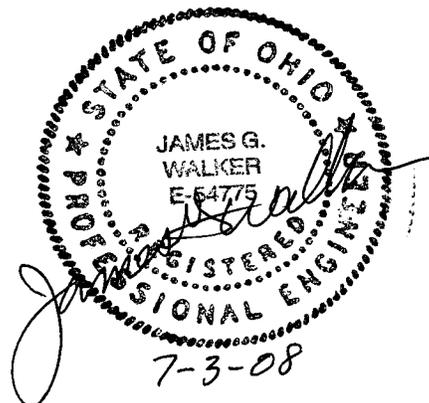
Engineering plans being sent separately from this submittal. A reduced copy of the engineering plans is included for convenience in this binder as Attachment 5.

In order to facilitate the quick review of the attached PTI alterations a meeting between Countywide and the OEPA can be scheduled. If you have any questions pertaining to this alteration request, please contact Mr. Todd Hamilton at (330) 874-3855 or the undersigned at (630) 633-5857.

Sincerely,

Cornerstone Environmental Group, LLC


James Walker, P.E.
Senior Client Manager



Attachments: 1 – Slope Stability Calculations
2 – Stormwater Management Design Calculations
3 – Temporary Leachate Sump Calculations
4 – 2:1 Runout Slope Stability Calculations
5 – Reduced Engineering Drawings

cc: Todd Hamilton, P.E. – Countywide RDF