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Lancaster Sanitary Landfill Lancaster, New York

Post Closure Maintenance Plan

GGE 98-1047 B

Prepared for:

Gunville Energy Systems, Inc.

6500 Main Street

Suite 5

Williamsville, New York 14221

Prepared by:

Glynn Geotechnical Engineering

415 South Transit Street

Lockport, New York 14094

September 29, 2005

Civil • Structural • Geotechnical • Materials Testing • Consulting

GGE

a member of the GLENN GROUP

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I. INTRODUCTION/PROJECT BACKGROUND

This document provides guidelines and procedures for providing post closure monitoring and maintenance of the Lancaster Sanitary Landfill in the Town of Lancaster, New York. Periodic maintenance of the landfill cap and associated monitoring wells is necessary to maintain cap integrity, provide accurate/reliable sampling points and prevent leachate seepage.

The site is located in the Town of Lancaster south of Wherle Drive, east of Lancaster Speedway, north of the New York State Thruway and west of Ransom Road. The low permeability clay cap is composed of clay, encompasses an area of approximately 156 acres and contains 14 active groundwater monitoring wells. Abandoned gravel pit and wetland marshes are located to the northeast of the cap area. Entrances to the cap area are located behind Lancaster Speedway at the southwest corner of the site and off Wherle Drive at the northern end of the site. A project location map has been included in Appendix A and a site plan in Appendix B.

The landfill administrative services are currently overseen by:

Gunville Energy Systems, Inc.
6500 Main Street
Suite 5
Williamsville, New York 14221
Phone: (716) 633-6500
Fax: (716) 633-3370

The landfill environmental and geotechnical activity is currently monitored by:

Glynn Geotechnical Engineering (GGE)
415 S. Transit Street
Lockport, New York 14094
Phone: (716) 625-6933
Fax: (716) 625-6983

A. Site Inspections

Glynn Geotechnical Engineering will perform semiannual site inspections (spring and fall) to assess the cap and monitoring well conditions. A list of noted defects will be generated after completing the investigation and supplied to Gunville Energy Systems, Inc. for remediation. Gunville Energy Systems, Inc. will hire a contractor to perform the necessary remediation activities. Glynn Geotechnical Engineering will perform a follow up site visit to ensure the remediation was performed in accordance with GGE's recommendations.

II. POST CLOSURE MAINTENANCE AND MONITORING

B. Monitoring Wells

Groundwater monitoring wells will be inspected for the following items:

1. Locks - The protective steel casings for each well shall be fitted with a pad lock, the keys of which will be kept on file by GGE, Gunville Energy Systems, Inc., and Upstate Laboratories, Inc.
2. Overall Condition - The protective steel casing and surrounding concrete base shall be in good condition and free of excessive cracking, rusting, frost heave, etc....
3. Overall Condition - The groundwater wells shall be plumb and in good condition. Each well shall be fitted with a j-plug or similar cap where applicable.

C. Gates and Access Roads

Gates and access roads will be inspected for the following items:

1. Locks - Both access gates shall be locked with a chain and single pad lock of the same key as the monitoring wells. GGE, Gunville Energy Systems, Inc. and Upstate Laboratories, Inc will keep copies of the keys on file.
2. Overall Condition - The access roads shall be kept in good condition and shall be navigable by a 4 wheel drive vehicle. Significant rutting and erosion shall be filled where noted.

C. Landfill Cap

The landfill cap will be inspected for the following items:

1. Overgrown Vegetation - Specifically, tall grass, trees and shrubs. The cap shall be mowed twice a year to keep the vegetative cover low to provide visibility, perform site inspections and easily locate defective areas. Trees and shrubs shall be removed from the cap where applicable to prevent root growth and subsequent cap damage.
2. Bare Areas - Areas that are bare and free of vegetative cover shall be seeded with grass to provide erosion protection.
3. Leachate Seepage - Areas where leachate seepage is observed shall be repaired to sufficiently terminate the observed seepage.

4. Soil Erosion - Areas where significant erosion is observed shall be filled and repaired. Rock lined drainage channels may be constructed in chronic problem areas to eliminate repeated maintenance.
5. Depressed Areas - Areas where depressions are noted shall be repaired to prevent the accumulation of standing water.
6. Gas Vents - Gas vents shall be inspected and repaired if damaged.

Repairs to the cap shall be performed with material meeting the Unified Soil Classification System requirements of lean clay (CL). The material shall be placed in loose lifts not to exceed 9 inches in thickness and compacted to 95 % of modified proctor at 2 % over optimum moisture. The compaction requirements may be waived if significant compactive effort is demonstrated in the field.

III. SUMMARY

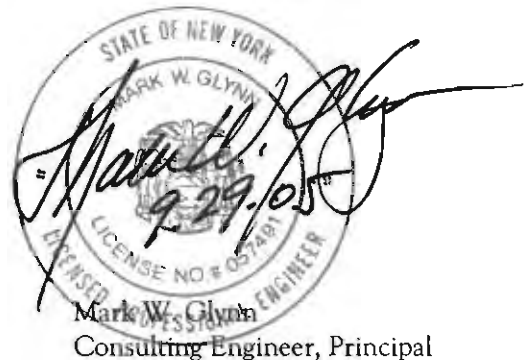
This document has been prepared to provide a base level for routine maintenance of the Lancaster Sanitary Landfill. Defects other than those addressed in this report may be encountered in the field and require remediation. Please contact GGE if you should have any questions and/or comments relative to this document.

Sincerely,



G. Edward Lover
Senior Geologist

/gel



Mark W. Glynn
Consulting Engineer, Principal

Appendix A

Project Location Plan

Lancaster Sanitary Landfill
Lancaster, New York

Post Closure Maintenance Plan

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PROJECT LOCATION PLAN

PROJECT: Lancaster Sanitary Landfill, Lancaster, NY

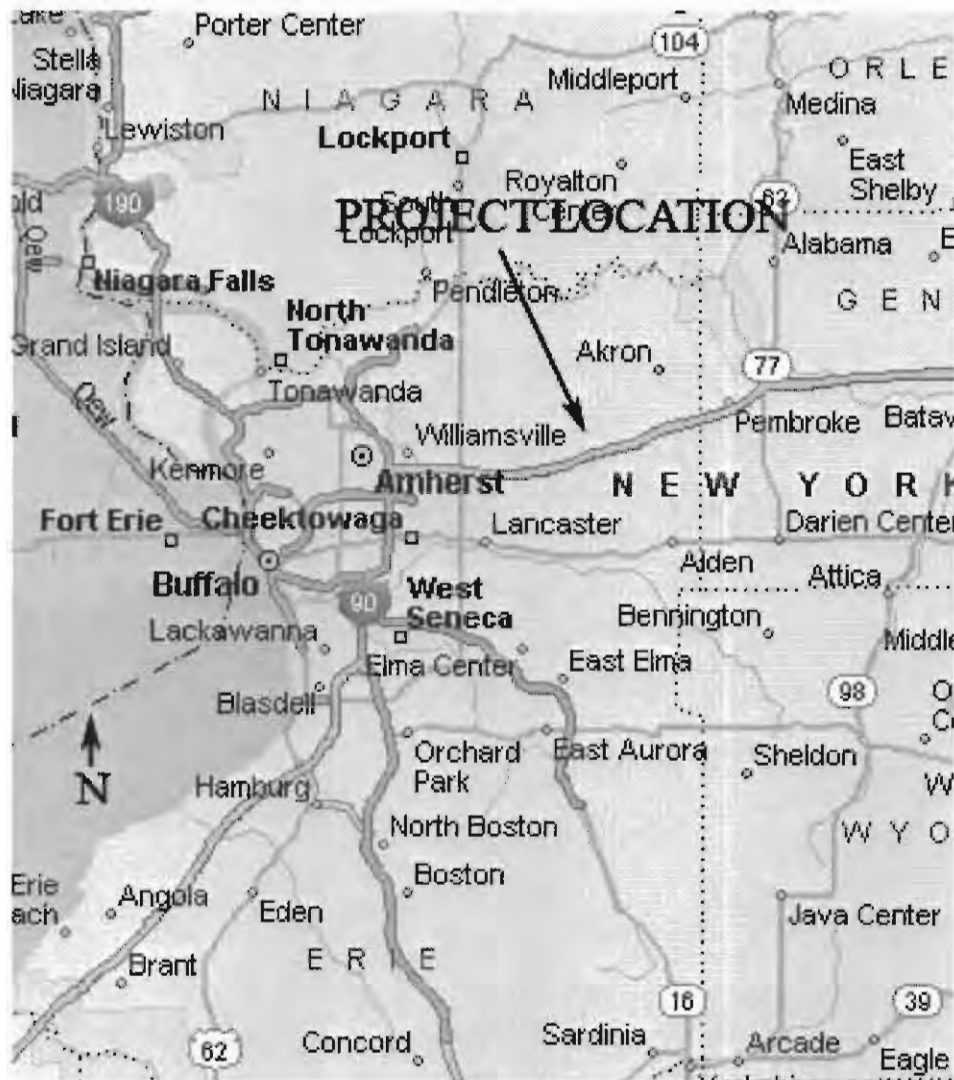
PROJECT NO.: 98-1047B

SUBJECT: Post Closure Maintenance Plan

SHEET 1 OF 1

PREPARED BY: G. Edward Lover

DATE: September 29, 2005



PROJECT LOCATION PLAN

PROJECT: Lancaster Sanitary Landfill, Lancaster, NY

PROJECT NO.: 98-1047B

SUBJECT: Post Closure Maintenance Plan

SHEET 1 OF 1

PREPARED BY: G. Edward Lover

DATE: September 29, 2005



Appendix B

Site Plan

Lancaster Sanitary Landfill
Lancaster, New York

Post Closure Maintenance Plan

GGE 98-1047 B

September 29, 2005

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Note:

Lancaster Sanitary Landfill (Registry #915068) document:

Post Closure Maintenance Plan; September 29, 2005

Was scanned except for Appendix B. This figure was an oversized Site Plan drawing. Please review the paper copy of the document for this sheet.

- David Szymanski