

# NPDES PERMIT EXCLUSION APPLICATION - INCIDENT NOTIFICATION REPORT

U.S. EPA - Region I, One Congress Street, Suite 1100 (HBR), BOSTON, MA 02114

617 918 1505 P.02

HBR CASE NO.

NPDES Exclusion Ref.#

Received:

Military Time:

GRANTED BY:

A) REPORTER INFO.

Requested by:

PAUL AYRES - PROJECT ENGINEER

Richard Dizzi

Organization Name:

GEOTECHNICAL CONSULTANTS INC.

Principal Engineer

Address:

201 BOSTON POST RD. WEST

City:

MARLBOROUGH

County:

MIDDLESEX

State:

MA

Zip:

01752

Phone No. (508)

829-0900

Ext:

B) DISCHARGER/ PERMITTEE/ OWNER

Same As Above in A

Name/Company Name

STONE RIVER PROPERTIES, LLC

Address:

720 MASSACHUSETTS AVE

Contact:

GEORGE KATZIS

City:

CAMBRIDGE

County:

SUFFOLK

State:

MA

Zip:

02139

Phone No. (617)

868-7700

Ext:

C) DISCHARGE INCIDENT LOCATION

Same As Above in B

Site Location Name:

355 GREEN STREET

Address:

355 GREEN STREET

Brookline Av.

City:

CAMBRIDGE

County:

SUFFOLK

State:

MA

Zip:

02139

Phone No. ( )

Ext:

D) DATES

Discharge Start Date:

9/1/05

Discharge Duration:

5/1/06

E) GROUND WATER CONT.

Contaminant 1

Contaminant 2

Contaminant 3

Approx. Concentration

SEE ATTACHED

LAB RESULTS

Contaminant 4

Contaminant 5

Contaminant 6

Approx. Concentration

F) TREATMENT SYSTEM

Treatment Equipment: (check applicable)

Exc Tank

✓

Airstripper

Oil/Water Separator

GAC Filter

Bag Filter

Equalization Tanks

Other => Describe:

Written Description of System:

1,000 GALLON SEDIMENTATION TANK

WITH INTERMEDIATE BAFFLES

G) RECEIVING WATERS

Discharge VIA: (check applicable)

Direct

Storm Drain

X

Wetlands

Unnamed River/ Brook

Overland Unknown

Within Facility

Other => Describe:

Receiving Waterway Name:

CHARLES RIVER

H) PURPOSE OF DISCHARGE

Dewatering Activity: (check applicable)

UST Replacement/Removal

Contaminated Excavation

Pump Test

Recovery & Treatment

Other => Describe:

Description

CONSTRUCTION DEWATERING AS REQUIRED FOR PLACEMENT OF FOOTINGS.

I) FLOW

Maximum Flow Rate:

100

GPM

J) INFO

Site ID #:

Agency Name:

Contact:

Agency Name:

Contact:

## ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive  
Westborough, Massachusetts 01581-1019  
(508) 898-9220 www.alphalab.com

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

## CERTIFICATE OF ANALYSIS

|                                                                          |                                 |
|--------------------------------------------------------------------------|---------------------------------|
| Client: Geotechnical Consultants, Inc.                                   | Laboratory Job Number: L0507705 |
| Address: 201 Boston Post Road West<br>Suite 402<br>Marlborough, MA 01752 | Date Received: 13-JUL-2005      |
| Attn: Mr. Paul Ayres                                                     | Date Reported: 19-JUL-2005      |
| Project Number: 2032043                                                  | Delivery Method: Client         |
| Site: 355 GREEN STREET                                                   |                                 |

The following questions pertain only to MCP Analytical Methods

An affirmative response to questions A,B,C & D is required for "Presumptive Certainty" status

- A. Were all samples received by the laboratory in a condition consistent with those described on their Chain-of-Custody documentation for the data set? YES
- B. Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? YES
- C. Does the analytical data included in this report meet all the requirements for "Presumptive Certainty", as described in section 2.0 of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? YES
- D. VPH and EPH methods only: Was the VPH or EPH method run without significant modifications, as specified in Section 11.3? N/A

A response to questions E and F is required for "Presumptive Certainty" status

- E. Were all QC performance standards and recommendations for the specified method(s) achieved? YES
- F. Were results for all analyte-list compounds/elements for the specified method(s) reported? YES

Any answers of NO to the above questions are addressed in the case narrative.

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized by: James Todaro

This document electronically signed

## ALPHA ANALYTICAL LABORATORIES

Laboratory Job Number: L0507705

Date Reported: 19-JUL-2005

| ALPHA SAMPLE NUMBER | CLIENT IDENTIFICATION | SAMPLE LOCATION     |
|---------------------|-----------------------|---------------------|
| L0507705-01         | SAMPLE 1              | CAMBRIDGE, MA 02139 |

ALPHA ANALYTICAL LABORATORIES  
NARRATIVE REPORT

Laboratory Job Number: L0507705

MCP Related Narratives:

Report Submission

All MCP required questions were answered with affirmative responses, therefore, there are no relevant data issues to discuss.

Non-MCP Related Narratives

TPH-8100M

The method blank associated with Alpha sample L0507705-01 has a concentration of hydrocarbon just below the reporting limit. This hydrocarbon pattern is not present in sample, however it is present in the duplicate.

The Duplicate & RPD is outside of the acceptance criteria required for the method. There is no sample remaining for re-analysis.

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

MA:M-MA086 NH:200301-A CT:PH-0574 ME:MA086 RI:65 NY:11148 NJ:MA935 Army:USACE

Laboratory Sample Number: L0507705-01

Date Collected: 13-JUL-2005 08:30

SAMPLE 1

Date Received : 13-JUL-2005

Sample Matrix:

WATER

Date Reported : 19-JUL-2005

Condition of Sample:

Satisfactory

Field Prep: None

Number & Type of Containers: 2-Amber,2-Vial

| PARAMETER                      | RESULT | UNITS | RDL  | REF METHOD | DATE          |      | ID |
|--------------------------------|--------|-------|------|------------|---------------|------|----|
|                                |        |       |      |            | PREP          | ANAL |    |
| Volatile Organics by MCP 8260B |        |       |      | 65 8260B   | 0715 16:20 BT |      |    |
| Methylene chloride             | ND     | ug/l  | 5.0  |            |               |      |    |
| 1,1-Dichloroethane             | ND     | ug/l  | 0.75 |            |               |      |    |
| Chloroform                     | 1.4    | ug/l  | 0.75 |            |               |      |    |
| Carbon tetrachloride           | ND     | ug/l  | 0.50 |            |               |      |    |
| 1,2-Dichloropropane            | ND     | ug/l  | 1.8  |            |               |      |    |
| Dibromochloromethane           | ND     | ug/l  | 0.50 |            |               |      |    |
| 1,1,2-Trichloroethane          | ND     | ug/l  | 0.75 |            |               |      |    |
| Tetrachloroethene              | ND     | ug/l  | 0.50 |            |               |      |    |
| Chlorobenzene                  | ND     | ug/l  | 0.50 |            |               |      |    |
| Trichlorofluoromethane         | ND     | ug/l  | 2.5  |            |               |      |    |
| 1,2-Dichloroethane             | ND     | ug/l  | 0.50 |            |               |      |    |
| 1,1,1-Trichloroethane          | ND     | ug/l  | 0.50 |            |               |      |    |
| Bromodichloromethane           | ND     | ug/l  | 0.50 |            |               |      |    |
| trans-1,3-Dichloropropene      | ND     | ug/l  | 0.50 |            |               |      |    |
| cis-1,3-Dichloropropene        | ND     | ug/l  | 0.50 |            |               |      |    |
| 1,1-Dichloropropene            | ND     | ug/l  | 2.5  |            |               |      |    |
| Bromoform                      | ND     | ug/l  | 2.0  |            |               |      |    |
| 1,1,2,2-Tetrachloroethane      | ND     | ug/l  | 0.50 |            |               |      |    |
| Benzene                        | ND     | ug/l  | 0.50 |            |               |      |    |
| Toluene                        | ND     | ug/l  | 0.75 |            |               |      |    |
| Ethylbenzene                   | ND     | ug/l  | 0.50 |            |               |      |    |
| Chloromethane                  | ND     | ug/l  | 2.5  |            |               |      |    |
| Bromomethane                   | ND     | ug/l  | 1.0  |            |               |      |    |
| Vinyl chloride                 | ND     | ug/l  | 1.0  |            |               |      |    |
| Chloroethane                   | ND     | ug/l  | 1.0  |            |               |      |    |
| 1,1-Dichloroethene             | ND     | ug/l  | 0.50 |            |               |      |    |
| trans-1,2-Dichloroethene       | ND     | ug/l  | 0.75 |            |               |      |    |
| Trichloroethene                | ND     | ug/l  | 0.50 |            |               |      |    |
| 1,2-Dichlorobenzene            | ND     | ug/l  | 2.5  |            |               |      |    |
| 1,3-Dichlorobenzene            | ND     | ug/l  | 2.5  |            |               |      |    |
| 1,4-Dichlorobenzene            | ND     | ug/l  | 2.5  |            |               |      |    |
| Methyl tert butyl ether        | ND     | ug/l  | 1.0  |            |               |      |    |
| p/m-Xylene                     | ND     | ug/l  | 1.0  |            |               |      |    |
| o-Xylene                       | ND     | ug/l  | 1.0  |            |               |      |    |
| cis-1,2-Dichloroethene         | ND     | ug/l  | 0.50 |            |               |      |    |
| Dibromomethane                 | ND     | ug/l  | 5.0  |            |               |      |    |
| 1,2,3-Trichloropropane         | ND     | ug/l  | 5.0  |            |               |      |    |
| Styrene                        | ND     | ug/l  | 1.0  |            |               |      |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

**ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSIS**

Laboratory Sample Number: L0507705-01  
SAMPLE 1

| PARAMETER                             | RESULT   | UNITS | RDL         | REF METHOD | DATE |            | ID         |
|---------------------------------------|----------|-------|-------------|------------|------|------------|------------|
|                                       |          |       |             |            | PREP | ANAL       |            |
| Volatile Organics by MCP 8260B cont'd |          |       |             |            |      |            |            |
| Dichlorodifluoromethane               | ND       | ug/l  | 5.0         | 60 8260B   |      | 0715 16:20 | Mr         |
| Acetone                               | ND       | ug/l  | 5.0         |            |      |            |            |
| Carbon disulfide                      | ND       | ug/l  | 5.0         |            |      |            |            |
| 2-Butanone                            | ND       | ug/l  | 5.0         |            |      |            |            |
| 4-Methyl-2-pentanone                  | ND       | ug/l  | 5.0         |            |      |            |            |
| 2-Hexanone                            | ND       | ug/l  | 5.0         |            |      |            |            |
| Bromochloromethane                    | ND       | ug/l  | 2.5         |            |      |            |            |
| Tetrahydrofuran                       | ND       | ug/l  | 10.         |            |      |            |            |
| 2,2-Dichloropropane                   | ND       | ug/l  | 2.5         |            |      |            |            |
| 1,2-Dibromoethane                     | ND       | ug/l  | 2.0         |            |      |            |            |
| 1,3-Dichloropropane                   | ND       | ug/l  | 2.5         |            |      |            |            |
| 1,1,1,2-Tetrachloroethane             | ND       | ug/l  | 0.50        |            |      |            |            |
| Bromobenzene                          | ND       | ug/l  | 2.5         |            |      |            |            |
| n-Butylbenzene                        | ND       | ug/l  | 0.50        |            |      |            |            |
| sec-Butylbenzene                      | ND       | ug/l  | 0.50        |            |      |            |            |
| tert-Butylbenzene                     | ND       | ug/l  | 2.5         |            |      |            |            |
| o-Chlorotoluene                       | ND       | ug/l  | 2.5         |            |      |            |            |
| p-Chlorotoluene                       | ND       | ug/l  | 2.5         |            |      |            |            |
| 1,2-Dibromo-3-chloropropane           | ND       | ug/l  | 2.5         |            |      |            |            |
| Hexachlorobutadiene                   | ND       | ug/l  | 1.0         |            |      |            |            |
| Isopropylbenzene                      | ND       | ug/l  | 0.50        |            |      |            |            |
| p-Isopropyltoluene                    | ND       | ug/l  | 0.50        |            |      |            |            |
| Naphthalene                           | ND       | ug/l  | 2.5         |            |      |            |            |
| n-Propylbenzene                       | ND       | ug/l  | 0.50        |            |      |            |            |
| 1,2,3-Trichlorobenzene                | ND       | ug/l  | 2.5         |            |      |            |            |
| 1,2,4-Trichlorobenzene                | ND       | ug/l  | 2.5         |            |      |            |            |
| 1,3,5-Trimethylbenzene                | ND       | ug/l  | 2.5         |            |      |            |            |
| 1,2,4-Trimethylbenzene                | ND       | ug/l  | 2.5         |            |      |            |            |
| Ethyl ether                           | ND       | ug/l  | 2.5         |            |      |            |            |
| Isopropyl Ether                       | ND       | ug/l  | 2.0         |            |      |            |            |
| Ethyl-Tert-Butyl-Ether                | ND       | ug/l  | 2.0         |            |      |            |            |
| Tertiary-Amyl Methyl Ether            | ND       | ug/l  | 2.0         |            |      |            |            |
| 1,4-Dioxane                           | ND       | ug/l  | 250         |            |      |            |            |
| Surrogate(s)                          | Recovery |       | QC Criteria |            |      |            |            |
| 1,2-Dichloroethane-d4                 | 117.     | %     | 70-130      |            |      |            |            |
| Toluene-d8                            | 101.     | %     | 70-130      |            |      |            |            |
| 4-Bromofluorobenzene                  | 119.     | %     | 70-130      |            |      |            |            |
| Dibromofluoromethane                  | 107.     | %     | 70-130      |            |      |            |            |
| Hydrocarbon Scan by GC 8100M          |          |       |             |            |      |            |            |
| Mineral Spirits                       | ND       | mg/l  | 0.10        | 8100M      |      | 0714 06:04 | 0715 15:28 |
| Gasoline                              | ND       | mg/l  | 0.10        |            |      |            |            |
| Fuel Oil #2/Diesel                    | ND       | mg/l  | 0.10        |            |      |            |            |
| Fuel Oil #4                           | ND       | mg/l  | 0.10        |            |      |            |            |
| Fuel Oil #6                           | ND       | mg/l  | 0.10        |            |      |            |            |
| Motor Oil                             | ND       | mg/l  | 0.10        |            |      |            |            |
| Kerosene                              | ND       | mg/l  | 0.10        |            |      |            |            |
| Transformer Oil                       | ND       | mg/l  | 0.10        |            |      |            |            |

Comments: Complete List of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
CERTIFICATE OF ANALYSISLaboratory Sample Number: L0507705-01  
SAMPLE 1

| PARAMETER                           | RESULT   | UNITS | RDL  | REF METHOD  | DATE       |            | ID |
|-------------------------------------|----------|-------|------|-------------|------------|------------|----|
|                                     |          |       |      |             | PREP       | ANAL       |    |
| Hydrocarbon Scan by GC 8100M cont'd |          |       |      | 1 8100M     | 0714 09:05 | 0715 15:26 | JB |
| Unknown Hydrocarbon                 | 0.12     | mg/l  | 0.10 |             |            |            |    |
| Surrogate(s)                        | Recovery |       |      | QC Criteria |            |            |    |
| o-Terphenyl                         | 94.0     | %     |      | 40-140      |            |            |    |

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0507705

| Parameter                                                               | Value 1  | Value 2 | Units | RPD | RPD Limits  |
|-------------------------------------------------------------------------|----------|---------|-------|-----|-------------|
| Hydrocarbon Scan by GC-BL00M for sample(s) 01 (L0507705-01, WG207471-3) |          |         |       |     |             |
| Mineral Spirits                                                         | ND       | ND      | mg/l  | NC  | 40          |
| Gasoline                                                                | ND       | ND      | mg/l  | NC  | 40          |
| Fuel Oil #2/Diesel                                                      | ND       | ND      | mg/l  | NC  | 40          |
| Fuel Oil #4                                                             | ND       | ND      | mg/l  | NC  | 40          |
| Fuel Oil #6                                                             | ND       | ND      | mg/l  | NC  | 40          |
| Motor Oil                                                               | ND       | ND      | mg/l  | NC  | 40          |
| Kerosene                                                                | ND       | ND      | mg/l  | NC  | 40          |
| Transformer Oil                                                         | ND       | ND      | mg/l  | NC  | 40          |
| Unknown Hydrocarbon                                                     | 0.12     | 0.42    | mg/l  | 111 | 40          |
| Surrogate(s)                                                            | Recovery |         |       |     | QC Criteria |
| o-Terphenyl                                                             | 94.0     | 94.0    | %     | 0   | 40-140      |

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0507705

| Parameter                                                      | % Recovery QC Criteria |        |
|----------------------------------------------------------------|------------------------|--------|
| Hydrocarbon Scan by GC 8100M LCS for sample(s) 01 (WG207471-2) |                        |        |
| Petroleum Spike                                                | 102                    | 40-140 |
| Surrogate(s)<br>o-Terphenyl                                    | 89                     | 40-140 |

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS**

Laboratory Job Number: L0507705

| Parameter                                                                | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--------------------------------------------------------------------------|-------|--------|-----|-----------|-----------|
| Volatile Organics by MCF 8260B for sample(s) 01 (WG207627-4, WG207627-5) |       |        |     |           |           |
| Methylene chloride                                                       | 106   | 109    | 3   | 25        | 70-130    |
| 1,1-Dichloroethane                                                       | 100   | 105    | 5   | 25        | 70-130    |
| Chloroform                                                               | 99    | 102    | 3   | 25        | 70-130    |
| Carbon tetrachloride                                                     | 108   | 108    | 0   | 25        | 70-130    |
| 1,2-Dichloropropane                                                      | 96    | 103    | 7   | 25        | 70-130    |
| Dibromochloromethane                                                     | 99    | 103    | 4   | 25        | 70-130    |
| 1,1,2-Trichloroethane                                                    | 103   | 109    | 6   | 25        | 70-130    |
| Tetrachloroethene                                                        | 97    | 102    | 5   | 25        | 70-130    |
| Chlorobenzene                                                            | 97    | 104    | 7   | 25        | 70-130    |
| Trichlorofluoromethane                                                   | 111   | 117    | 5   | 25        | 70-130    |
| 1,2-Dichloroethane                                                       | 104   | 106    | 2   | 25        | 70-130    |
| 1,1,1-Trichloroethane                                                    | 105   | 106    | 1   | 25        | 70-130    |
| Bromodichloromethane                                                     | 108   | 106    | 2   | 25        | 70-130    |
| trans-1,3-Dichloropropene                                                | 96    | 97     | 1   | 25        | 70-130    |
| cis-1,3-Dichloropropene                                                  | 98    | 97     | 1   | 25        | 70-130    |
| 1,1-Dichloropropene                                                      | 104   | 109    | 5   | 25        | 70-130    |
| Bromoform                                                                | 100   | 101    | 1   | 50        | 70-130    |
| 1,1,2,2-Tetrachloroethane                                                | 100   | 98     | 2   | 25        | 70-130    |
| Benzene                                                                  | 98    | 99     | 1   | 25        | 70-130    |
| Toluene                                                                  | 98    | 99     | 1   | 25        | 70-130    |
| Ethylbenzene                                                             | 104   | 108    | 4   | 25        | 70-130    |
| Chloromethane                                                            | 84    | 93     | 10  | 50        | 70-130    |
| Bromomethane                                                             | 105   | 110    | 5   | 50        | 70-130    |
| Vinyl chloride                                                           | 112   | 118    | 5   | 25        | 70-130    |
| Chloroethane                                                             | 96    | 106    | 10  | 25        | 70-130    |
| 1,1-Dichloroethene                                                       | 94    | 102    | 8   | 25        | 70-130    |
| trans-1,2-Dichloroethene                                                 | 95    | 101    | 6   | 25        | 70-130    |
| Trichloroethene                                                          | 95    | 103    | 8   | 25        | 70-130    |
| 1,2-Dichlorobenzene                                                      | 98    | 100    | 2   | 25        | 70-130    |
| 1,3-Dichlorobenzene                                                      | 98    | 103    | 5   | 25        | 70-130    |
| 1,4-Dichlorobenzene                                                      | 99    | 101    | 2   | 25        | 70-130    |
| Methyl tert butyl ether                                                  | 113   | 117    | 3   | 25        | 70-130    |
| p/m-Xylene                                                               | 99    | 106    | 7   | 25        | 70-130    |
| o-Xylene                                                                 | 100   | 105    | 5   | 25        | 70-130    |
| cis-1,2-Dichloroethane                                                   | 102   | 105    | 3   | 25        | 70-130    |
| Dibromomethane                                                           | 99    | 104    | 5   | 25        | 70-130    |
| 1,2,3-Trichloropropane                                                   | 106   | 100    | 6   | 25        | 70-130    |
| Styrene                                                                  | 104   | 106    | 2   | 25        | 70-130    |
| Dichlorodifluoromethane                                                  | 97    | 95     | 2   | 50        | 70-130    |
| Acetone                                                                  | 100   | 97     | 3   | 50        | 70-130    |
| Carbon disulfide                                                         | 92    | 97     | 5   | 25        | 70-130    |
| 2-Butanone                                                               | 114   | 117    | 3   | 50        | 70-130    |
| 4-Methyl-2-pentanone                                                     | 110   | 113    | 3   | 50        | 70-130    |
| 2-Hexanone                                                               | 111   | 113    | 2   | 50        | 70-130    |
| Bromochloromethane                                                       | 99    | 94     | 5   | 25        | 70-130    |
| Tetrahydrofuran                                                          | 111   | 118    | 6   | 25        | 70-130    |
| 2,2-Dichloropropane                                                      | 98    | 100    | 2   | 25        | 70-130    |
| 1,2-Dibromoethane                                                        | 102   | 99     | 3   | 25        | 70-130    |

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH LCS/LCSD ANALYSIS

Laboratory Job Number: L0507705

Continued

| Parameter                                                                | LCS % | LCSD % | RPD | RPD Limit | QC Limits |
|--------------------------------------------------------------------------|-------|--------|-----|-----------|-----------|
| Volatile Organics by MCP 8260B for sample(s) 01 (WG207627-4, WG207627-5) |       |        |     |           |           |
| 1,3-Dichloropropane                                                      | 102   | 104    | 2   | 25        | 70-130    |
| 1,1,1,2-Tetrachloroethane                                                | 102   | 107    | 5   | 25        | 70-130    |
| Bromobenzene                                                             | 96    | 103    | 7   | 25        | 70-130    |
| n-Butylbenzene                                                           | 105   | 109    | 4   | 25        | 70-130    |
| sec-Butylbenzene                                                         | 100   | 103    | 3   | 25        | 70-130    |
| tert-Butylbenzene                                                        | 101   | 102    | 1   | 25        | 70-130    |
| o-Chlorotoluene                                                          | 103   | 106    | 3   | 25        | 70-130    |
| p-Chlorotoluene                                                          | 99    | 102    | 3   | 25        | 70-130    |
| 1,2-Dibromo-3-chloropropane                                              | 107   | 109    | 2   | 50        | 70-130    |
| Hexachlorobutadiene                                                      | 104   | 105    | 1   | 25        | 70-130    |
| Isopropylbenzene                                                         | 102   | 104    | 2   | 25        | 70-130    |
| p-Isopropyltoluene                                                       | 101   | 104    | 3   | 25        | 70-130    |
| Naphthalene                                                              | 101   | 101    | 0   | 25        | 70-130    |
| n-Propylbenzene                                                          | 103   | 107    | 4   | 25        | 70-130    |
| 1,2,3-Trichlorobenzene                                                   | 98    | 101    | 3   | 25        | 70-130    |
| 1,2,4-Trichlorobenzene                                                   | 96    | 98     | 2   | 25        | 70-130    |
| 1,3,5-Trimethylbenzene                                                   | 102   | 105    | 3   | 25        | 70-130    |
| 1,2,4-Trimethylbenzene                                                   | 104   | 105    | 1   | 25        | 70-130    |
| Ethyl ether                                                              | 103   | 96     | 7   | 25        | 70-130    |
| Isopropyl Ether                                                          | 103   | 106    | 3   | 25        | 70-130    |
| Ethyl-Tert-Butyl-Ether                                                   | 105   | 105    | 0   | 25        | 70-130    |
| Tertiary-Amyl Methyl Ether                                               | 102   | 107    | 5   | 25        | 70-130    |
| 1,4-Dioxane                                                              | 100   | 106    | 6   | 50        | 70-130    |
| Surrogate(s)                                                             |       |        |     |           |           |
| 1,2-Dichloroethane-d4                                                    | 116   | 110    | 5   |           | 70-130    |
| Toluene-d8                                                               | 104   | 103    | 1   |           | 70-130    |
| 4-Bromofluorobenzene                                                     | 110   | 103    | 7   |           | 70-130    |
| Dibromofluoromethane                                                     | 107   | 103    | 4   |           | 70-130    |

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0507705

| PARAMETER                                    | RESULT | UNITS | RDL  | REF METHOD | DATE |               | ID |
|----------------------------------------------|--------|-------|------|------------|------|---------------|----|
|                                              |        |       |      |            | PREP | ANAL          |    |
| Blank Analysis for sample(s) 01 (WG207627-6) |        |       |      |            |      |               |    |
| Volatile Organics by MCP 8260B               |        |       |      | 6D 8260B   |      | 0719 15:05 BT |    |
| Methylene chloride                           | ND     | ug/l  | 5.0  |            |      |               |    |
| 1,1-Dichloroethane                           | ND     | ug/l  | 0.75 |            |      |               |    |
| Chloroform                                   | ND     | ug/l  | 0.75 |            |      |               |    |
| Carbon tetrachloride                         | ND     | ug/l  | 0.50 |            |      |               |    |
| 1,2-Dichloropropane                          | ND     | ug/l  | 1.8  |            |      |               |    |
| Dibromochloromethane                         | ND     | ug/l  | 0.50 |            |      |               |    |
| 1,1,2-Trichloroethane                        | ND     | ug/l  | 0.75 |            |      |               |    |
| Tetrachloroethene                            | ND     | ug/l  | 0.50 |            |      |               |    |
| Chlorobenzene                                | ND     | ug/l  | 0.50 |            |      |               |    |
| Trichlorofluoromethane                       | ND     | ug/l  | 2.5  |            |      |               |    |
| 1,2-Dichloroethane                           | ND     | ug/l  | 0.50 |            |      |               |    |
| 1,1,1-Trichloroethane                        | ND     | ug/l  | 0.50 |            |      |               |    |
| Bromodichloromethane                         | ND     | ug/l  | 0.50 |            |      |               |    |
| trans-1,3-Dichloropropene                    | ND     | ug/l  | 0.50 |            |      |               |    |
| cis-1,3-Dichloropropene                      | ND     | ug/l  | 0.50 |            |      |               |    |
| 1,1-Dichloropropene                          | ND     | ug/l  | 2.5  |            |      |               |    |
| Bromoform                                    | ND     | ug/l  | 2.0  |            |      |               |    |
| 1,1,2,2-Tetrachloroethane                    | ND     | ug/l  | 0.50 |            |      |               |    |
| Benzene                                      | ND     | ug/l  | 0.50 |            |      |               |    |
| Toluene                                      | ND     | ug/l  | 0.75 |            |      |               |    |
| Ethylbenzene                                 | ND     | ug/l  | 0.50 |            |      |               |    |
| Chloromethane                                | ND     | ug/l  | 2.5  |            |      |               |    |
| Bromomethane                                 | ND     | ug/l  | 1.0  |            |      |               |    |
| Vinyl chloride                               | ND     | ug/l  | 1.0  |            |      |               |    |
| Chloroethane                                 | ND     | ug/l  | 1.0  |            |      |               |    |
| 1,1-Dichloroethene                           | ND     | ug/l  | 0.50 |            |      |               |    |
| trans-1,2-Dichloroethene                     | ND     | ug/l  | 0.75 |            |      |               |    |
| Trichloroethene                              | ND     | ug/l  | 0.50 |            |      |               |    |
| 1,2-Dichlorobenzene                          | ND     | ug/l  | 2.5  |            |      |               |    |
| 1,3-Dichlorobenzene                          | ND     | ug/l  | 2.5  |            |      |               |    |
| 1,4-Dichlorobenzene                          | ND     | ug/l  | 2.5  |            |      |               |    |
| Methyl tert butyl ether                      | ND     | ug/l  | 1.0  |            |      |               |    |
| p/m-Xylene                                   | ND     | ug/l  | 1.0  |            |      |               |    |
| o-Xylene                                     | ND     | ug/l  | 1.0  |            |      |               |    |
| cis-1,2-Dichloroethene                       | ND     | ug/l  | 0.50 |            |      |               |    |
| Dibromomethane                               | ND     | ug/l  | 5.0  |            |      |               |    |
| 1,2,3-Trichloropropane                       | ND     | ug/l  | 5.0  |            |      |               |    |
| Styrene                                      | ND     | ug/l  | 1.0  |            |      |               |    |
| Dichlorodifluoromethane                      | ND     | ug/l  | 5.0  |            |      |               |    |
| Acetone                                      | ND     | ug/l  | 5.0  |            |      |               |    |
| Carbon disulfide                             | ND     | ug/l  | 5.0  |            |      |               |    |
| 2-Butanone                                   | ND     | ug/l  | 5.0  |            |      |               |    |
| 4-Methyl-2-pentanone                         | ND     | ug/l  | 5.0  |            |      |               |    |
| 2-Hexanone                                   | ND     | ug/l  | 5.0  |            |      |               |    |
| Bromochloromethane                           | ND     | ug/l  | 2.5  |            |      |               |    |
| Tetrahydrofuran                              | ND     | ug/l  | 10.  |            |      |               |    |

**ALPHA ANALYTICAL LABORATORIES**  
**QUALITY ASSURANCE BATCH BLANK ANALYSIS**

Laboratory Job Number: L0507705

Continued

| PARAMETER                                    | RESULT   | UNITS | RDL         | REF METHOD | DATE |                          | ID |
|----------------------------------------------|----------|-------|-------------|------------|------|--------------------------|----|
|                                              |          |       |             |            | PREP | ANAL                     |    |
| Blank Analysis for sample(s) 01 (WG207627-G) |          |       |             |            |      |                          |    |
| Volatile Organics by MCF 8250B cont'd        |          |       |             |            |      |                          |    |
| 2,2-Dichloropropane                          | ND       | ug/l  | 2.5         | 80 8250B   |      | 0716 15:06 BY            |    |
| 1,2-Dibromoethane                            | ND       | ug/l  | 2.0         |            |      |                          |    |
| 1,3-Dichloropropane                          | ND       | ug/l  | 2.5         |            |      |                          |    |
| 1,1,1,2-Tetrachloroethane                    | ND       | ug/l  | 0.50        |            |      |                          |    |
| Bromobenzene                                 | ND       | ug/l  | 2.5         |            |      |                          |    |
| n-Butylbenzene                               | ND       | ug/l  | 0.50        |            |      |                          |    |
| sec-Butylbenzene                             | ND       | ug/l  | 0.50        |            |      |                          |    |
| tert-Butylbenzene                            | ND       | ug/l  | 2.5         |            |      |                          |    |
| o-Chlorotoluene                              | ND       | ug/l  | 2.5         |            |      |                          |    |
| p-Chlorotoluene                              | ND       | ug/l  | 2.5         |            |      |                          |    |
| 1,2-Dibromo-3-chloropropane                  | ND       | ug/l  | 2.5         |            |      |                          |    |
| Hexachlorobutadiene                          | ND       | ug/l  | 1.0         |            |      |                          |    |
| Isopropylbenzene                             | ND       | ug/l  | 0.50        |            |      |                          |    |
| p-Isopropyltoluene                           | ND       | ug/l  | 0.50        |            |      |                          |    |
| Naphthalene                                  | ND       | ug/l  | 2.5         |            |      |                          |    |
| n-Propylbenzene                              | ND       | ug/l  | 0.50        |            |      |                          |    |
| 1,2,3-Trichlorobenzene                       | ND       | ug/l  | 2.5         |            |      |                          |    |
| 1,2,4-Trichlorobenzene                       | ND       | ug/l  | 2.5         |            |      |                          |    |
| 1,3,5-Trimethylbenzene                       | ND       | ug/l  | 2.5         |            |      |                          |    |
| 1,2,4-Trimethylbenzene                       | ND       | ug/l  | 2.5         |            |      |                          |    |
| Ethyl ether                                  | ND       | ug/l  | 2.5         |            |      |                          |    |
| Isopropyl Ether                              | ND       | ug/l  | 2.0         |            |      |                          |    |
| Ethyl-Tert-Butyl-Ether                       | ND       | ug/l  | 2.0         |            |      |                          |    |
| Tertiary-Amyl Methyl Ether                   | ND       | ug/l  | 2.0         |            |      |                          |    |
| 1,4-Dioxane                                  | ND       | ug/l  | 250         |            |      |                          |    |
| Surrogate(s)                                 | Recovery |       | QC Criteria |            |      |                          |    |
| 1,2-Dichloroethane-d4                        | 114.     | %     | 70-130      |            |      |                          |    |
| Toluene-d8                                   | 102.     | %     | 70-130      |            |      |                          |    |
| 4-Bromofluorobenzene                         | 119.     | %     | 70-130      |            |      |                          |    |
| Dibromofluoromethane                         | 105.     | %     | 70-130      |            |      |                          |    |
| Blank Analysis for sample(s) 01 (WG207471-1) |          |       |             |            |      |                          |    |
| Hydrocarbon Scan by GC 8100M                 |          |       |             |            |      |                          |    |
| Mineral Spirits                              | ND       | mg/l  | 0.10        | 1 8100M    |      | 0714 00:08 8/14 14:22 JB |    |
| Gasoline                                     | ND       | mg/l  | 0.10        |            |      |                          |    |
| Fuel Oil #2/Diesel                           | ND       | mg/l  | 0.10        |            |      |                          |    |
| Fuel Oil #4                                  | ND       | mg/l  | 0.10        |            |      |                          |    |
| Fuel Oil #6                                  | ND       | mg/l  | 0.10        |            |      |                          |    |
| Motor Oil                                    | ND       | mg/l  | 0.10        |            |      |                          |    |
| Kerosene                                     | ND       | mg/l  | 0.10        |            |      |                          |    |
| Transformer Oil                              | ND       | mg/l  | 0.10        |            |      |                          |    |
| Unknown Hydrocarbon                          | ND       | mg/l  | 0.10        |            |      |                          |    |

ALPHA ANALYTICAL LABORATORIES  
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0507705

Continued

| PARAMETER                                    | RESULT   | UNITS | RDL | REF METHOD  | DATE       |            | ID |
|----------------------------------------------|----------|-------|-----|-------------|------------|------------|----|
|                                              |          |       |     |             | PREP       | ANAL       |    |
| Blank Analysis for sample(s) 01 (WG207471-1) |          |       |     |             |            |            |    |
| Hydrocarbon Scan by GC 8100M cont'd          |          |       |     | 8100M       | 0714 08:05 | 0714 14:22 | JB |
| Surrogate(s)                                 | Recovery |       |     | QC Criteria |            |            |    |
| o-Terphenyl                                  | 90.0     | %     |     | 40-140      |            |            |    |

**ALPHA ANALYTICAL LABORATORIES**  
**ADDENDUM I**

**REFERENCES**

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.
60. Quality Assurance and Quality Control Requirements and Performance Standards for SW-846 Methods. MADEP BWSC. WSC-CAM-IIA (Revision 4), WSC-CAM-V C (Revision 2), WSC-CAM-IIIA (Revision 5). May 2004.

**GLOSSARY OF TERMS AND SYMBOLS**

REF Reference number in which test method may be found.  
METHOD Method number by which analysis was performed.  
ID Initials of the analyst.  
ND Not detected in comparison to the reported detection limit.  
NI Not Ignitable.  
ug/cart Micrograms per Cartridge.

**LIMITATION OF LIABILITIES**

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA ANALYTICAL LABORATORIES  
LOGIN SPECIFIC INFORMATION

Laboratory Job Number: L0507705

Were project specific reporting limits specified?

YES

## Cooler Information

Cooler Custody Seal

A Absent

## Container Information

| Container ID | Container Type           | Cooler | pH | Temp  | Pres | Seal   | Analysis    |
|--------------|--------------------------|--------|----|-------|------|--------|-------------|
| L0507705-01A | Vial HCl preserved       | A      | NA | 0.8 C | Y    | Absent | MCP-9260-04 |
| L0507705-01B | Vial HCl preserved       | A      | NA | 0.8 C | Y    | Absent | MCP-9260-04 |
| L0507705-01C | Amber 1000ml unpreserved | A      | 7  | 0.8 C | Y    | Absent | TEN-8100    |
| L0507705-01D | Amber 1000ml unpreserved | A      | 7  | 0.8 C | Y    | Absent | TDH-8100    |

## Container Comments

Container ID Comments



**PFHA**  
Eight Walkup Drive  
Westborough, MA 01581  
TEL: 508-898-8220 FAX: 508-898-8193

# CHAIN OF CUSTODY

PAGE 1 OF 1

**Client:** Geotechnical Consultants, Inc.  
**Address:** 201 Boston Road 2nd West  
Northborough, MA 01552  
**Phone:** (508) 429-0900  
**Fax:** (508) 229-2279  
**Email:** \_\_\_\_\_  
☐ These samples have been previously analyzed by Alpha  
 Other Project Specific Requirements/Comments/Detection Limits: \_\_\_\_\_

**Project Information**

**Project Name:** 355 Green Street  
**Project Location:** Cumbridge, MA 02139  
**Project #:** 2032043  
**Project Manager:** PFH  
**Alpha Quote #:** \_\_\_\_\_  
**Turnaround Time:** \_\_\_\_\_  
☒ Standard ☐ RUSH (only confirmed / pre-approved)  
**Date Due:** July 20, 2005 **Time:** \_\_\_\_\_

**Date Rec'd in Lab:** 7-13-05 **ALPHA Job #:** 60507705

**Report Information - Data Deliverables**

☒ FAX ☐ EMAIL  
☐ ADEx ☐ Add'l Deliverables

**Regulatory Requirements/Report Limits**

**State Fed Program:** \_\_\_\_\_ **Criteria:** \_\_\_\_\_

**ANALYSIS**

PER 8760 B  
SOILS  
ESA TH 0100

**REPORT PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED**

☒ Yes ☐ No **Are HIC Analytical Methods Required?**  
☒ Yes ☐ No **Are Drilling Water Samples Submitted?**  
☒ Yes ☐ No **Have you met minimum field QC requirements?**

| Alpha Job ID<br>(Last three digits) | Sample ID            | Collection |      | Sample Matrix | Sampler's Units | ANALYSIS |    | REPORT PRESUMPTIVE CERTAINTY |    | SAMPLE HANDLING | Sample Specific Comments |
|-------------------------------------|----------------------|------------|------|---------------|-----------------|----------|----|------------------------------|----|-----------------|--------------------------|
|                                     |                      | Date       | Time |               |                 | Yes      | No | Yes                          | No |                 |                          |
|                                     | Amber 1000 mL unpur. | 7/13       | 8:30 | GW            | DF              | X        | X  |                              |    |                 |                          |
|                                     | Amber 1000 mL unpur. | 7/13       | 8:30 | GW            | DF              | X        | X  |                              |    |                 |                          |
|                                     | Vial HCl preserved   | 7/13       | 8:30 | GW            | DF              | X        | X  |                              |    |                 |                          |
|                                     | Vial HCl preserved   | 7/13       | 8:30 | GW            | DF              | X        | X  |                              |    |                 |                          |

**Relinquished By:** David Feldman **Date/Time:** 7/13-2:15 PM  
**Received By:** Bruce Macmillan **Date/Time:** 7/13/05 14:15

**Container Type:** \_\_\_\_\_ **Preservative:** \_\_\_\_\_

**Release from Chain of Custody and Responsibility:** Samples can not be kept in and returned time clock will not take until any analytical are received. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

| NO. | COMM. | PAGES   | FILE | DURATION | X/R | IDENTIFICATION | DATE   | TIME  | DIAGNOSTIC    |
|-----|-------|---------|------|----------|-----|----------------|--------|-------|---------------|
| 38  | OK    | 001/001 | 423  | 00:00:36 | XMT | 916174264256   | OCT-13 | 14:47 | 0107A20001030 |
| 39  | OK    | 019     | 424  | 00:02:33 | XMT | 9-15087914131  | OCT-13 | 15:04 | F107A2000ADC0 |
| 40  | OK    | 019     | 425  | 00:02:30 | XMT | 9-15087914131  | OCT-13 | 15:11 | F107A2000ADC0 |

-US EPA

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617 918 1505- \*\*\*\*\*