COLER & COLANTONIO INC
ENGINEERS AND SCIENTISTS

May 22, 2006

Ms. Olga Vergara
United States Environmental Protection Agency
Region 1
Suite 1100
1 Congress Street
Boston, MA 02114

RE: Notice of Intent for Remediation General Permit
Common Street Trust Building
102-104 Trapelo Road
Belmont, Massachusetts
MADEP RTN 3-23300

Dear Ms. Vergara,

Coler & Colantonio, Inc. has prepared this Notice of Intent (NOI) for a Remediation General Permit necessary for dewatering of a basement to complete Immediate Response Actions required by the Massachusetts Department of Environmental Protection. Dewatering of chlorinated volatile organic compound impacted groundwater is required to properly prepare the building basement for the installation of a new vapor/water proof floor.

Coler & Colantonio, Inc. is the environmental consultant for the site and will be the operator of the system. Jenkins-Starr, LLC is considered the owner of the project. Contact information for the owner and operator is provided below:

Coler & Colantonio, Inc.
55 Bobala Road
Holyoke, MA. 01040
Phone: 413/313-0131
Contact: Thomas J. Motsko

Jenkins-Starr, LLC.
70 Industrial Drive
Holden, MA. 01520
Phone: 978/ 263-1086
Contact: Chris Starr, Managing Partner

Historic groundwater analyses indicate the presence of a perchlorethylene (PCE) plume extending partially under the structure. The contaminants of concern are listed in the NOI.

The groundwater treatment system will comprise of an existing sump pump located in the basement pumping groundwater through a totalizing flow meter to liquid phase granular activated carbon vessels. The discharge will tie into the previously utilized stormwater catch basin. A site locus map and an overview of the proposed system layout are attached with the NOI.

If you require any further assistance, please feel free to contact us at the numbers listed below.

Sincerely,
COLER & COLANTONIO, INC.

Mark A. Germano, LSP
Division Manager – Environmental Services
781/982-5429

Thomas J. Motsko
Project Manager
413/313-0131

Attachments:

1. Notice of Intent
2. Figure 1 - Site Locus
3. Figure 2 – Process Flow and Treatment System Location
4. Laboratory Analytical Reports

1. General site information. Please provide the following information about the site:

a) Name of **facility/site**: Common Street Trust Property		**Facility/site** address: 102-104 Trapelo Road Belmont, MA 02478		
Location of **facility/site**: longitude: -71.174938 latitude: 42.380484	Facility SIC code(s):	Street: Trapelo Road		
b) Name of **facility/site owner:** Common Street Trust		Town: Belmont		
Email address of owner:		State: MA	Zip: 02478	County: Middlesex
Telephone no.of facility/site **owner**: (617) 965-8497				
Fax no. of facility/site **owner**:		**Owner** is (check one): 1. Federal ___ 2. State/Tribal ___ 3. Private ✔ 4. other, if so, describe:		
Address of **owner** (if different from site):				
Street: 8 Central Avenue				
Town: Newton	State: MA	Zip: 02160	County: Plymouth	
c) Legal name of **operator**: Coler & Colantonio, Inc.	**Operator** telephone no: (413) 313-0131			
	Operator fax no.: (413) 313-0190	**Operator** email: tmotsko@col-col.com		
Operator contact name and title: Thomas J. Motkso (Project Manager - Environmental Services)				

Address of **operator** (if different from owner):	Street: 55 Bobala Road		
Town: Holyoke	State: MA	Zip: 01040	County: Hamden

d) Check "yes" or "no" for the following:
1. Has a prior NPDES permit exclusion been granted for the discharge? Yes___ No✔, if "yes," number:
2. Has a prior NPDES application (Form 1 & 2C) ever been filed for the discharge? Yes___ No✔, if "yes," date and tracking #:
3. Is the discharge a "new discharge"as defined by 40 CFR 122.2? Yes✔ No___
4. For sites in Massachusetts, is the discharge covered under the MA Contingency Plan (MCP) and exempt from state permitting? Yes✔No__

e) Is site/facility subject to any State permitting or other action which is causing the generation of discharge? Yes✔ No___
If "yes," please list:
1. site identification # assigned by the state of NH or MA: RTN# 3-23300
2. permit or license # assigned:
3. state agency contact information: name, location, and telephone number:
MADEP, Jennifer Wang,

f) Is the site/facility covered by any other EPA permit, including:
1. multi-sector storm water general permit? Y___ N✔, if Y, number:
2. phase I or II construction storm water general permit? Y___ N✔,
if Y, number:
3. individual NPDES permit? Y___ N✔, if Y, number:
4. any other water quality related permit? Y___ N✔, if Y, number:

2. Discharge information. Please provide information about the discharge, (attaching additional sheets as needed) including:

a) Describe the discharge activities for which the owner/applicant is seeking coverage:
discharge for two sumps located in the basement of the facility

b) Provide the following information about each discharge:	1) Number of discharge points: 1	2) What is the **maximum** and **average flow rate** of discharge (in cubic feet per second, ft^3/s)? Max. flow .016 Average flow .016 Is maximum flow a **design value**? Y✔ N___ For average flow, include the units and appropriate notation if this value is a design value or estimate if not available.

3) Latitude and longitude of each discharge within 100 feet: pt.1:long.-71.174938 lat.42.380484; pt.2: long._____ lat._____; pt.3: long._____ lat._____; pt.4:long._____ lat._____; pt.5: long._____ lat._____; pt.6:long._____ lat._____; pt.7: long._____ lat._____; pt.8:long._____ lat._____; etc.

4) If hydrostatic testing, total volume of the discharge (gals):	5) Is the discharge intermittent ✔ or seasonal ____ ? Is discharge ongoing Yes ____ No ✔ ?
c) Expected dates of discharge (mm/dd/yy): start 05/29/06 end 08/29/06	
d) Please attach a line drawing or flow schematic showing water flow through the facility including: 1. sources of intake water, 2. contributing flow from the operation, 3. treatment units, and 4. discharge points and receiving waters(s).	

3. Contaminant information. In order to complete this section, the applicant will need to take a minimum of one sample of the untreated water and have it analyzed for **all** of the parameters listed in Appendix III. Historical data, (i.e., data taken no more than 2 years prior to the effective date of the permit) may be used if obtained pursuant to: i. Massachusetts' regulations 310 CMR 40.0000, the Massachusetts Contingency Plan ("Chapter 21E"); ii. New Hampshire's Title 50 RSA 485-A: Water Pollution and Waste Disposal or Title 50 RSA 485-C: Groundwater Protection Act; or iii. an EPA permit exclusion letter issued pursuant to 40 CFR 122.3, provided the data was analyzed with test methods that meet the requirements of this permit. Otherwise, a new sample shall be taken and analyzed.

a) Based on the analysis of the sample(s) of the untreated influent, the applicant must check the box of the sub-categories that the potential discharge falls within.

Gasoline Only ☐	VOC Only ☐	Primarily Metals ☐	Urban Fill Sites ☐	Contaminated Sumps ✔	Mixed Contaminants ☐	Aquifer Testing ☐
Fuel Oils (and Other Oils) only ☐	VOC with Other Contaminants ✔	Petroleum with Other Contaminants ☐	Listed Contaminated Sites ☐	Contaminated Dredge Condensates ☐	Hydrostatic Testing of Pipelines/Tanks ☐	Well Development or Rehabilitation ☐

b) Based on the analysis of the untreated influent, the applicant must indicate whether each listed chemical is **believed present** or **believed absent** in the potential discharge. Attach additional sheets as needed.

PARAMETER	**Believe Absent**	**Believe Present**	**# of Samples (1 min-imum)**	**Type of Sample (e.g., grab)**	**Analytical Method Used (method #)**	**Minimum Level (ML) of Test Method**	**Maximum daily value**		**Avg. daily value**	
							concentration (ug/l)	**mass (kg)**	**concentration (ug/l)**	**mass (kg)**
1. Total Suspended Solids	☐	✔	1	grab	160.2	5 mg/L	8,400			
2. Total Residual Chlorine	✔	☐	1	grab	330.1	20 ug/L	ND (<50)			
3. Total Petroleum Hydrocarbons	✔	☐	1	grab	1664A	5 mg/L	ND (<4,000)			
4. Cyanide	☐	✔	1	grab	335.2	10 ug/L	35			
5. Benzene	✔	☐	1	grab	624	2 ug/L	ND (<50)			
6. Toluene	✔	☐	1	grab	624	2 ug/L	ND (<50)			
7. Ethylbenzene	✔	☐	1	grab	624	2 ug/L	ND (<50)			
8. (m,p,o) Xylenes	✔	☐	1	grab	624	10 ug/L	ND (<100)			
9. Total BTEX[4]	✔	☐	1	grab	624	2 ug/ L	ND			

[4] BTEX = Sum of Benzene, Toluene, Ethylbenzene, total Xylenes.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
10. Ethylene Dibromide (1,2- Dibromo-methane)	✔		1	grab	504.1	0.01 ug/L	ND (<0.019)			
11. Methyl-tert-Butyl Ether (MtBE)		✔	1	grab	624	5.0 ug/L	5,500			
12. tert-Butyl Alcohol (TBA)	✔		1	grab	624	100 ug/L	ND (<5,000)			
13. tert-Amyl Methyl Ether (TAME)	✔		1	grab	624	0.5 ug/L	ND (<1,000)			
14. Naphthalene	✔		1	grab	8270M	0.2 ug/L	ND (<0.2)			
15. Carbon Tetra-chloride	✔		1	grab	624	2 ug/L	ND (<50)			
16. 1,4 Dichlorobenzene	✔		1	grab	624	2 ug/L	ND (<250)			
17. 1,2 Dichlorobenzene	✔		1	grab	624	2 ug/L	ND (<250)			
18. 1,3 Dichlorobenzene	✔		1	grab	624	2 ug/L	ND (<250)			
19. 1,1 Dichloroethane	✔		1	grab	624	1 ug/L	ND (<75)			
20. 1,2 Dichloroethane	✔		1	grab	624	2 ug/L	ND (<75)			
21. 1,1 Dichloroethylene	✔		1	grab	624	2 ug/L	ND (<50)			
22. cis-1,2 Dichloro-ethylene	✔		1	grab	624	2 ug/L	ND (<50)			
23. Dichloromethane (Methylene Chloride)	✔		1	grab	624	2 ug/L	ND (<250)			
24. Tetrachloroethylene		✔	1	grab	624	2 ug/L	290			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily Value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
25. 1,1,1 Trichloroethane	✔		1	grab	624	2 ug/L	ND (<100)			
26. 1,1,2 Trichloroethane	✔		1	grab	624	2 ug/L	ND (<75)			
27. Trichloroethylene	✔		1	grab	624	2 ug/L	ND (<50)			
28. Vinyl Chloride	✔		1	grab	624	2 ug/L	ND (<100)			
29. Acetone	✔		1	grab	624	50 ug/L	ND (<500)			
30. 1,4 Dioxane	✔		1	grab	624	50 ug/L	ND (<100,000)			
31. Total Phenols	✔		1	grab	8270C	1.0 ug/L	ND (<0.03)			
32. Pentachlorophenol	✔		1	grab	8270C	1.0 ug/L	ND (<20)			
33. Total Phthalates [5] (Phthalate esthers)	✔		1	grab	8270C	5 ug/L	ND(<4.9)			
34. Bis (2-Ethylhexyl) Phthalate [Di-(ethylhexyl) Phthalate]	✔		1	grab	8270C	5 ug/L	ND (<9.8)			
35. Total Group I Polycyclic Aromatic Hydrocarbons (PAH)	✔		1	grab	8270C-M		ND			
a. Benzo(a) Anthracene	✔		1	grab	8270C-M	0.05 ug/L	ND (<0..2)			
b. Benzo(a) Pyrene	✔		1	grab	8270C-M	2 ug/L	ND (<0.2)			
c. Benzo(b)Fluoranthene	✔		1	grab	8270C-M	0.1 ug/L	ND (<0.2)			
d. Benzo(k) Fluoranthene	✔		1	grab	8270C-M	2 ug/L	ND (<0.2)			
e. Chrysene	✔		1	grab	8270C-M	5 ug/L	ND (<0.2)			

[5] The sum of individual phthalate compounds.

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Average daily value	
							concentration (ug/l)	mass (kg)	concentration (ug/l)	mass (kg)
f. Dibenzo(a,h) anthracene	✔		1	grab	8270C-M	0.1 ug/L	ND (<0.2)			
g. Indeno(1,2,3-cd) Pyrene	✔		1	grab	8270C-M	0.15 ug/L	ND (<0.2)			
36. Total Group II Polycyclic Aromatic Hydrocarbons (PAH)	✔		1	grab	8270C-M		ND			
h. Acenaphthene	✔		1	grab	8270C-M	0.5 ug/L	ND (<0.2)			
i. Acenaphthylene	✔		1	grab	8270C-M	0.2 ug/L	ND (<0.2)			
j. Anthracene	✔		1	grab	8270C-M	2 ug/L	ND (<0.2)			
k. Benzo(ghi) Perylene	✔		1	grab	8270C-M	0.1 ug/L	ND (<0.2)			
l. Fluoranthene	✔		1	grab	8270C-M	0.5 ug/L	ND (<0.2)			
m. Fluorene	✔		1	grab	8270C-M	0.1 ug/L	ND (<0.2)			
n. Naphthalene-	✔		1	grab	8270C-M	0.2 ug/L	ND (<0.2)			
o. Phenanthrene	✔		1	grab	8270C-M	0.05 ug/L	ND (<0.2)			
p. Pyrene	✔		1	grab	8270C-M	0.05 ug/L	ND (<0.2)			
37. Total Polychlorinated Biphenyls (PCBs)	✔		1	grab	608	0.5 ug/L	ND (<0.258)			
***3*8. Antimony**	✔		1	grab	200.9	50 ug/L	ND (<5)			
39. Arsenic	✔		1	grab	200.7	5 ug/L	ND (<5)			
40. Cadmium	✔		1	grab	213.2	0.5 ug/L	ND (<0.2)			
41. Chromium III	✔		1	grab	200.7	10 ug/L	ND (<10)			
42. Chromium VI	✔		1	grab	3500CR-D	10 ug/L	ND (<20)			

PARAMETER	Believe Absent	Believe Present	# of Samples (1 min-imum)	Type of Sample (e.g., grab)	Analytical Method Used (method #)	Minimum Level (ML) of Test Method	Maximum daily value		Avg. daily value	
							concentration (ug/l)	**mass** (kg)	**concentration** (ug/l)	**mass** (kg)
43. Copper	✔		1	grab	200.7	5 ug/L	ND (<10)			
44. Lead		✔	1	grab	200.9	40 ug/L	2			
45. Mercury	✔		1	grab	245.2	0.2 ug/L	ND (<0.2)			
46. Nickel	✔		1	grab	200.7	10 ug/L	ND (<25)			
47. Selenium	✔		1	grab	200.7	50 ug/L	ND (<5)			
48. Silver	✔		1	grab	272.2	2 ug/L	ND (<0.2)			
49. Zinc	✔		1	grab	200.7	10 ug/L	ND (<50)			
50. Iron		✔	1	grab	200.7		430			
Other (describe):	✔									

c) For discharges where **metals** are believed present, please fill out the following:

Step 1: Do any of the metals in the influent have a **reasonable potential** to exceed the effluent limits in Appendix III (i.e., the limits set at zero to five dilutions)? Y___ N ✔	If yes, which metals?
Step 2: For any metals which have **reasonable potential** to exceed the **Appendix III** limits, calculate the **dilution factor (DF)** using the formula in Part I.A.3.c) (step 2) of the NOI instructions or as determined by the State prior to the submission of this NOI. What is the dilution factor for applicable metals? Metals:_____ DF: _____	Look up the limit calculated at the corresponding dilution factor in **Appendix IV.** Do any of the metals in the **influent** have the potential to exceed the corresponding **effluent** limits in Appendix IV (i.e., is the influent concentration above the limit set at the calculated dilution factor)? Y___ N___ If "Yes," list which metals:

4. Treatment system information. Please describe the treatment system using separate sheets as necessary, including:

a) A description of the treatment system, including a schematic of the proposed or existing treatment system:

Sump pumps are utilized to pump groundwater from the basement of the site building through two liquid phase GAC vessels. A schematic is attached.

b) Identify each applicable treatment unit (check all that apply):	Frac. tank ☐	Air stripper ☐	Oil/water separator ☐	Equalization tanks ☐	Bag filter ☐	GAC filter ✔
	Chlorination ☐	Dechlorination ☐	Other (please describe):			

c) Proposed **average** and **maximum flow rates** (gallons per minute) for the discharge and the **design flow rate**(s) (gallons per minute) of the treatment system:
Average flow rate of discharge 7 Maximum flow rate of treatment system 7 Design flow rate of treatment system 10

d) A description of chemical additives being used or planned to be used (attach MSDS sheets):

Not applicable

5. Receiving surface water(s). Please provide information about the receiving water(s), using separate sheets as necessary:

a) Identify the discharge pathway:	Direct ☐	Within facility ☐	Storm drain ✔	River/brook ☐	Wetlands ☐	Other (describe):

b) Provide a narrative description of the discharge pathway, including the name(s) of the receiving waters:

The sump pump removes water from the basement of the site, is treated through GAC vessels, and discharges the water to a catch basin located behind the building. The runoff into the catch basin discharges into Wellington Brook, approximately 0.5 miles from the catch basin. Almost two miles down stream, Wellington Brook discharges into Clay Pit Pond.

c) Attach a detailed map(s) indicating the site location and location of the outfall to the receiving water:
1. For multiple discharges, number the discharges sequentially.
2. For indirect dischargers, indicate the location of the discharge to the indirect conveyance and the discharge to surface water
The map should also include the location and distance to the nearest sanitary sewer as well as the locus of nearby sensitive receptors (based on USGS topographical mapping), such as surface waters, drinking water supplies, and wetland areas.

d) Provide the state water quality classification of the receiving water A,

e) Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water N/A cfs
Please attach any calculation sheets used to support stream flow and dilution calculations.

f) Is the receiving water a listed 303(d) water quality impaired or limited water? Yes ☐ No ✔ If yes, for which pollutant(s)?

Is there a TMDL? Yes ☐ No ☐ If yes, for which pollutant(s)?

6. Results of Consultation with Federal Services: Please provide the following information according to requirements of Part I.B.4 and Appendices II and VII.

a) Are any listed threatened or endangered species, or designated critical habitat, in proximity to the discharge? Yes ☐ No ✔
Has any consultation with the federal services been completed ? ☐ No ✔ or is consultation underway? ☐ No ✔
What were the results of the consultation with the U.S. Fish and Wildlife Service and/or National Marine Fisheries Service (check one):
a "no jeopardy" opinion? Yes ☐ or written concurrence ☐ on a finding that the discharges are not likely to adversely affect any endangered species or critical habitat?

b) Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or site or in proximity to the discharge?
Yes ☐ No ✔ Have any state or tribal historic preservation officer been consulted in this determination (Massachusetts only)? Yes ☐ No ✔

7. Supplemental information. :

Please provide any supplemental information. Attach any analytical data used to support the application. Attach any certification(s) required by the general permit.

Section 4(e). No 7Q10 is provided. The receiving water is intermittant, flowing only during storm events.

8. Signature Requirements: The Notice of Intent must be signed by the operator in accordance with the signatory requirements of 40 CFR Section 122.22, including the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Facility/Site Name: Common Street Trust Property

Operator signature: Thomas J. Motsko

Digitally signed by Thomas J. Motsko
DN: cn=Thomas J. Motsko, c=US, o=Coler & Colantonio, Inc., ou=Environmental Services, email=tmotsko@col-col.com
Date: 2006.05.22 16:02:11 -04'00'

Title: Project Manager

Date: 05/22/06

B. Submission of NOI to EPA - All operators applying for coverage under this General Permit must submit a written Notice of Intent (NOI) to EPA. Signed and completed NOI forms and attachments must be submitted to EPA-NE at:

US Environmental Protection Agency
RGP-NOC Processing
Municipal Assistance Unit (CMU),
1 Congress Street, Suite 1100
Boston, MA 02114-2023

or electronically mailed to NPDES.Generalpermits@epa.gov,
or faxed to the EPA Office at 617-918-0505.

If filling out the suggested NOI form electronically on EPA's website, the signature page must be signed and faxed or mailed to EPA at the phone number or address listed in Section I.B. below.

1. Filing with the states - A copy of any NOI form filed with EPA-NE must also be filed with state agencies. The state agency may elect to develop a state specific form or other information requirements.

a) Discharges in Massachusetts - In addition to the NOI, permit applicants must submit copies of the State Application Form BRPWM 12, Request for General Permit coverage for the RGP. The application form and the Transmittal Form for Permit Application and Payment, may be obtained from the Massachusetts Department of Environmental Protection (MA DEP) website at www.state.ma.us/dep. Municipalities are fee-exempt, but should send a copy of the transmittal form to that address for project tracking purposes. All applicants should keep a copy of the transmittal form and a copy of the application package for their records.

1) A copy of the NOI, the transmittal form, a copy of the check, and Form BRPWM 12 should be sent to:

Massachusetts Department of Environmental Protection
Division of Watershed Management
627 Main Street, 2nd floor
Worcester, MA 01608

2) A copy of the transmittal form and the appropriate fee should be sent to:

Massachusetts Department of Environmental Protection
P.O. Box 4062
Boston, MA 02111

Please note: Applicants for discharges in Massachusetts should note that under 310 CMR 40.000, *as a matter of state law*, the general permit only applies to discharges that are **not** subject to the Massachusetts Contingency Plan (MCP) and 310 CMR 40.000. Therefore, discharges subject to the MCP are **not** required to fill out and submit the State Application Form BRPWM 12 or pay the state fees. However, they must submit a NOI to EPA.

b) Discharges in New Hampshire - applicants must provide a copy of the Notice of Intent to:

New Hampshire Department of Environmental Services
Water Division
Wastewater Engineering Bureau
P.O. Box 95
Concord, New Hampshire 03302-0095.

2. Filing with Municipalities - A copy of the NOI must be submitted to the municipality in which the proposed discharge would be located.

DEP MCP 21e Map Legend

- Zone IIs
- IWPAs
- Zone A
- Sole Source Aquifers
- Solid Waste Sites
- Protected Openspace
- ACECs
- NHESP Estimated Habitat of Rare Wildlife in Wetland Areas
- Certified Vernal Pools 2003 NHESP
- Subbasins
- Mass Major Basins
- DEP Region
- Town Arcs
- County Boundaries

Public Water Supplies

- COMMUNITY PUBLIC WATER SUPPLY - GROUNDWATER
- COMMUNITY PUBLIC WATER SUPPLY - SURFACE WATER
- NON COMMUNITY PUBLIC WATER SUPPLY

Aquifers, By Yield

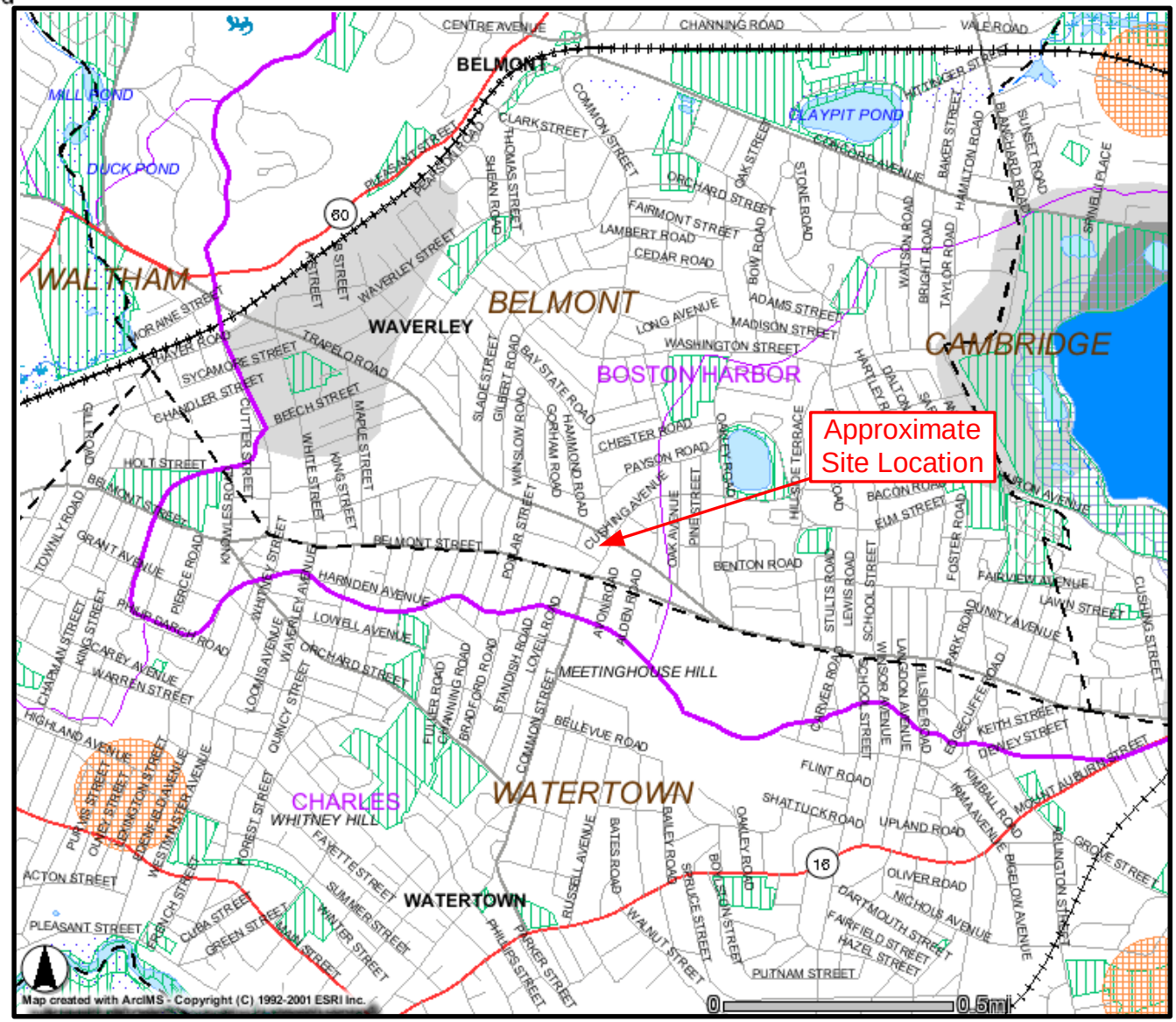
- HIGH YIELD
- MEDIUM YIELD

Non Potential Drinking Water Source Area

- HIGH YIELD
- MEDIUM YIELD

FEMA Floodplains

- 100 YEAR FLOODPLAIN



Hydrography

- WATER
- RESERVOIR
- WETLANDS
- SALTWATER WETLANDS
- FLATS,SHOALS

Rivers and Streams

- PERENNIAL
- INTERMITTENT
- SHORELINE
- MAN MADE SHORE
- DAM
- AQUEDUCT

MHD Roads

- LIMITED ACCESS HIGHWAY
- MULTI-LANE HWY, NOT LIMITED ACCESS
- OTHER NUMBERED HWY
- MAJOR ROAD - COLLECTOR
- MINOR STREET OR ROAD, RAMP

Tracks and Trails MHD

- TRACK
- TRAIL

Transmission Lines

- PIPELINE
- POWERLINE
- TRAIN

COLER & COLANTONIO INC
ENGINEERS AND SCIENTISTS

Cushing Square Auto Parts
102 - 104 Trapelo Road
Belmont, Massachusetts

Figure 1
Site Locus and
DEP Priority Resource Map

N

TRAPELO ROAD

STARBUCKS
(112 TRAPELO RD)

underground natural gas line

underground electric line

MH

Electric Meter

Electric Meter

Natural Gas Meter

MH

drain line

Catch Basin

Flow

GAC Vessels

Drain pipe from sumps

Basement Sump 2

Flow

Basement Sump 1

COMMON STREET TRUST
PROPERTY
102–104 TRAPELO RD

Dry Well/Drain

Fill Pipe

AST

compressors and boilers

Fill Pipe

AST

underground electric line

TOPS CLEANERS
(495 COMMON ST)

JEWELER/TAILOR

BANK

COMMON STREET

LEGEND

(MH) – Approximate Man Hole Location

AST – Above Ground Storage Tank for No. 2 Fuel Oil

REVISIONS:

No.	DATE	

GENERAL NOTES:

Plan based on Belmont Assessor maps, Figure No. 6–1 prepared by GeoSyntec Consultants of Acton, MA and prepared on 10/14/2004, field measurements collected by C&C, and utilities marked–out at the Site.

COLER & COLANTONIO INC
ENGINEERS AND SCIENTISTS

781–982–5400
Fax: 781–982–5490

101 Accord Park Drive
Norwell, MA 02061–1685

TITLE:

FIGURE 2

Process Flow and Treatment Location Plan

PREPARED FOR:

JENKINS–STARR, LLC
70 INDUSTRIAL DRIVE
HOLDEN, MA 01520

DATE:	March 14, 2006
COMP./DESIGN:	GAC/PAI/TJM
CHECK:	PAI
DRAWN:	GAC
SCALE:	1" = 20'

JOB NO.: F:\PROJECT\DIV11\11–1200\11–1226 Tops Cleaners\Figures\NEW Figure 2–tops.dwg

DWG NO.:FIG.2.dwg | SHEET: 1 OF 1

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: Coler & Colantonio

Address: 101 Accord Park Drive
Norwell, MA 02061

Attn: Mr. Mark Germano

Project Number: 11-1226

Site: NPDES PERMIT/TOP'S

Laboratory Job Number: L0600756

Date Received: 17-JAN-2006

Date Reported: 25-JAN-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0600756-01	SUMP DISCHARGE	BELMONT, MA

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: _____
Technical Director

ALPHA ANALYTICAL LABORATORIES
NARRATIVE REPORT

Laboratory Job Number: L0600756

Report Submission

This report replaces the report issued on January 24,2006. The report has been amended to include the compounds MBTE, TBA, TAME, and 1,4 Dioxane for L0600756.

Volatile Organics by Method 624

L0600756-01 has elevated limits of detection due to the 50x dilutions required by the elevated concentrations of non-target compounds in the sample.

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: L0600756-01
SUMP DISCHARGE
Sample Matrix: WATER

Date Collected: 13-JAN-2006 15:30
Date Received : 17-JAN-2006
Date Reported : 25-JAN-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 4-Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Pesticides by GC 504				14	504.1	0124 10:40	0124 13:36	JB
1,2-Dibromoethane	ND	ug/l	0.019					
1,2-Dibromo-3-chloropropane	ND	ug/l	0.019					
Volatile Organics by GC/MS 624				5	624		0120 14:31	MM
Methylene chloride	ND	ug/l	250					
1,1-Dichloroethane	ND	ug/l	75.					
Chloroform	ND	ug/l	75.					
Carbon tetrachloride	ND	ug/l	50.					
1,2-Dichloropropane	ND	ug/l	180					
Dibromochloromethane	ND	ug/l	50.					
1,1,2-Trichloroethane	ND	ug/l	75.					
2-Chloroethylvinyl ether	ND	ug/l	500					
Tetrachloroethene	290	ug/l	75.					
Chlorobenzene	ND	ug/l	180					
Trichlorofluoromethane	ND	ug/l	250					
1,2-Dichloroethane	ND	ug/l	75.					
1,1,1-Trichloroethane	ND	ug/l	100					
Bromodichloromethane	ND	ug/l	50.					
trans-1,3-Dichloropropene	ND	ug/l	75.					
cis-1,3-Dichloropropene	ND	ug/l	75.					
Bromoform	ND	ug/l	50.					
1,1,2,2-Tetrachloroethane	ND	ug/l	50.					
Benzene	ND	ug/l	50.					
Toluene	ND	ug/l	50.					
Ethylbenzene	ND	ug/l	50.					
Chloromethane	ND	ug/l	500					
Bromomethane	ND	ug/l	250					
Vinyl chloride	ND	ug/l	100					
Chloroethane	ND	ug/l	100					
1,1-Dichloroethene	ND	ug/l	50.					
trans-1,2-Dichloroethene	ND	ug/l	75.					
cis-1,2-Dichloroethene	ND	ug/l	50.					
Trichloroethene	ND	ug/l	50.					
1,2-Dichlorobenzene	ND	ug/l	250					
1,3-Dichlorobenzene	ND	ug/l	250					
1,4-Dichlorobenzene	ND	ug/l	250					
p/m-Xylene	ND	ug/l	100					
o-xylene	ND	ug/l	50.					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0600756-01
SUMP DISCHARGE

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Volatile Organics by GC/MS 624 cont'd				5	624		0120 14:31	MM
Xylene (Total)	ND	ug/l	100					
Styrene	ND	ug/l	50.					
Acetone	ND	ug/l	500					
Carbon disulfide	ND	ug/l	250					
2-Butanone	ND	ug/l	500					
Vinyl acetate	ND	ug/l	1000					
4-Methyl-2-pentanone	ND	ug/l	500					
2-Hexanone	ND	ug/l	500					
Acrolein	ND	ug/l	400					
Acrylonitrile	ND	ug/l	500					
Methyl tert butyl ether	5500	ug/l	1000					
1,4-Dioxane	ND	ug/l	100000					
Tert-Butyl Alcohol	ND	ug/l	5000					
Tertiary-Amyl Methyl Ether	ND	ug/l	1000					
Surrogate(s)	Recovery		QC Criteria					
Pentafluorobenzene	104.	%	80-120					
Fluorobenzene	106.	%	80-120					
4-Bromofluorobenzene	101.	%	80-120					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0600756

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Volatile Organics by GC/MS 624 for sample(s) 01 (L0600573-01, WG227088-2)					
Methylene chloride	ND	ND	ug/l	NC	30
1,1-Dichloroethane	ND	ND	ug/l	NC	30
Chloroform	ND	ND	ug/l	NC	30
Carbon tetrachloride	ND	ND	ug/l	NC	30
1,2-Dichloropropane	ND	ND	ug/l	NC	30
Dibromochloromethane	ND	ND	ug/l	NC	30
1,1,2-Trichloroethane	ND	ND	ug/l	NC	30
Tetrachloroethene	ND	ND	ug/l	NC	30
Chlorobenzene	ND	ND	ug/l	NC	30
Trichlorofluoromethane	ND	ND	ug/l	NC	30
1,2-Dichloroethane	ND	ND	ug/l	NC	30
1,1,1-Trichloroethane	ND	ND	ug/l	NC	30
Bromodichloromethane	ND	ND	ug/l	NC	30
trans-1,3-Dichloropropene	ND	ND	ug/l	NC	30
cis-1,3-Dichloropropene	ND	ND	ug/l	NC	30
Bromoform	1.2	1.4	ug/l	15	30
1,1,2,2-Tetrachloroethane	ND	ND	ug/l	NC	30
Benzene	ND	ND	ug/l	NC	30
Toluene	ND	ND	ug/l	NC	30
Ethylbenzene	ND	ND	ug/l	NC	30
Chloromethane	ND	ND	ug/l	NC	30
Bromomethane	ND	ND	ug/l	NC	30
Vinyl chloride	ND	ND	ug/l	NC	30
Chloroethane	ND	ND	ug/l	NC	30
1,1-Dichloroethene	ND	ND	ug/l	NC	30
trans-1,2-Dichloroethene	ND	ND	ug/l	NC	30
cis-1,2-Dichloroethene	ND	ND	ug/l	NC	30
Trichloroethene	ND	ND	ug/l	NC	30
1,2-Dichlorobenzene	ND	ND	ug/l	NC	30
1,3-Dichlorobenzene	ND	ND	ug/l	NC	30
1,4-Dichlorobenzene	ND	ND	ug/l	NC	30
p/m-Xylene	ND	ND	ug/l	NC	30
o-Xylene	ND	ND	ug/l	NC	30
XYLENE (TOTAL)	ND	ND	ug/l	NC	30
Styrene	ND	ND	ug/l	NC	30
Acetone	ND	ND	ug/l	NC	30
Carbon disulfide	ND	ND	ug/l	NC	30
2-Butanone	ND	ND	ug/l	NC	30
Vinyl acetate	ND	ND	ug/l	NC	30
4-Methyl-2-pentanone	ND	ND	ug/l	NC	30
2-Hexanone	ND	ND	ug/l	NC	30
Acrolein	ND	ND	ug/l	NC	30
Acrylonitrile	ND	ND	ug/l	NC	30
Surrogate(s)	Recovery				QC Criteria
Pentafluorobenzene	101.	91.0	%		80-120
Fluorobenzene	102.	94.0	%		80-120
4-Bromofluorobenzene	111.	99.0	%		80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0600756

Parameter	% Recovery	QC Criteria
Pesticides by GC 504 LCS for sample(s) 01 (WG227604-2)		
1,2-Dibromoethane	99	
1,2-Dibromo-3-chloropropane	108	
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG227088-11)		
Methylene chloride	103	10-221
1,1-Dichloroethane	90	59-155
Chloroform	81	51-138
Carbon tetrachloride	79	70-140
1,2-Dichloropropane	96	10-210
Dibromochloromethane	87	53-149
1,1,2-Trichloroethane	95	52-150
2-Chloroethylvinyl ether	107	10-305
Tetrachloroethene	92	64-148
Chlorobenzene	96	37-160
Trichlorofluoromethane	87	17-181
1,2-Dichloroethane	84	49-155
1,1,1-Trichloroethane	84	52-162
Bromodichloromethane	83	35-155
trans-1,3-Dichloropropene	85	17-183
cis-1,3-Dichloropropene	92	10-227
Bromoform	84	45-169
1,1,2,2-Tetrachloroethane	94	46-157
Benzene	98	37-151
Toluene	97	47-150
Ethylbenzene	100	37-162
Chloromethane	67	10-273
Bromomethane	88	10-242
Vinyl chloride	81	10-251
Chloroethane	104	14-230
1,1-Dichloroethene	91	10-234
trans-1,2-Dichloroethene	93	54-156
cis-1,2-Dichloroethene	95	60-140
Trichloroethene	95	71-157
1,2-Dichlorobenzene	94	18-190
1,3-Dichlorobenzene	95	59-156
1,4-Dichlorobenzene	96	18-190
p/m-Xylene	103	40-160
o-Xylene	102	40-160
XYLENE (TOTAL)	103	40-160
Styrene	90	40-160
Acetone	93	40-160
Carbon disulfide	83	40-160
2-Butanone	88	40-160
Vinyl acetate	69	40-160
4-Methyl-2-pentanone	113	40-160
2-Hexanone	103	40-160
Acrolein	110	40-160
Acrylonitrile	106	40-160

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0600756

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 LCS for sample(s) 01 (WG227088-11)		
Surrogate(s)		
Pentafluorobenzene	104	80-120
Fluorobenzene	103	80-120
4-Bromofluorobenzene	98	80-120
Pesticides by GC 504 SPIKE for sample(s) 01 (L0600756-01, WG227604-3)		
1,2-Dibromoethane	100	
1,2-Dibromo-3-chloropropane	107	
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0600573-01, WG227088-1)		
Methylene chloride	80	10-221
1,1-Dichloroethane	78	59-155
Chloroform	75	51-138
Carbon tetrachloride	72	70-140
1,2-Dichloropropane	81	10-210
Dibromochloromethane	90	53-149
1,1,2-Trichloroethane	94	52-150
2-Chloroethylvinyl ether	76	10-305
Tetrachloroethene	86	64-148
Chlorobenzene	85	37-160
Trichlorofluoromethane	83	17-181
1,2-Dichloroethane	83	49-155
1,1,1-Trichloroethane	79	52-162
Bromodichloromethane	81	35-155
trans-1,3-Dichloropropene	80	17-183
cis-1,3-Dichloropropene	82	10-227
Bromoform	92	45-169
1,1,2,2-Tetrachloroethane	93	46-157
Benzene	85	35-151
Toluene	86	47-150
Ethylbenzene	90	37-162
Chloromethane	71	10-273
Bromomethane	77	10-242
Vinyl chloride	79	10-251
Chloroethane	89	14-230
1,1-Dichloroethene	77	10-234
trans-1,2-Dichloroethene	79	54-156
cis-1,2-Dichloroethene	82	60-140
Trichloroethene	82	71-157
1,2-Dichlorobenzene	89	18-190
1,3-Dichlorobenzene	87	59-156
1,4-Dichlorobenzene	89	18-190
p/m-Xylene	93	40-160
o-Xylene	92	40-160
XYLENE (TOTAL)	93	40-160
Styrene	81	40-160
Acetone	80	40-160

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0600756

Continued

Parameter	% Recovery	QC Criteria
Volatile Organics by GC/MS 624 SPIKE for sample(s) 01 (L0600573-01, WG227088-1)		
Carbon disulfide	94	40-160
2-Butanone	82	40-160
Vinyl acetate	116	40-160
4-Methyl-2-pentanone	113	40-160
2-Hexanone	104	40-160
Acrolein	90	40-160
Acrylonitrile	100	40-160
Surrogate(s)		
Pentafluorobenzene	101	80-120
Fluorobenzene	99	80-120
4-Bromofluorobenzene	100	80-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0600756

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG227604-1)								
Pesticides by GC 504				14	504.1	0124 10:40	0124 12:29	JB
1,2-Dibromoethane	ND	ug/l	0.020					
1,2-Dibromo-3-chloropropane	ND	ug/l	0.020					
Blank Analysis for sample(s) 01 (WG227088-12)								
Volatile Organics by GC/MS 624				5	624		0120 13:54	MM
Methylene chloride	ND	ug/l	5.0					
1,1-Dichloroethane	ND	ug/l	1.5					
Chloroform	ND	ug/l	1.5					
Carbon tetrachloride	ND	ug/l	1.0					
1,2-Dichloropropane	ND	ug/l	3.5					
Dibromochloromethane	ND	ug/l	1.0					
1,1,2-Trichloroethane	ND	ug/l	1.5					
2-Chloroethylvinyl ether	ND	ug/l	10.					
Tetrachloroethene	ND	ug/l	1.5					
Chlorobenzene	ND	ug/l	3.5					
Trichlorofluoromethane	ND	ug/l	5.0					
1,2-Dichloroethane	ND	ug/l	1.5					
1,1,1-Trichloroethane	ND	ug/l	2.0					
Bromodichloromethane	ND	ug/l	1.0					
trans-1,3-Dichloropropene	ND	ug/l	1.5					
cis-1,3-Dichloropropene	ND	ug/l	1.5					
Bromoform	ND	ug/l	1.0					
1,1,2,2-Tetrachloroethane	ND	ug/l	1.0					
Benzene	ND	ug/l	1.0					
Toluene	ND	ug/l	1.0					
Ethylbenzene	ND	ug/l	1.0					
Chloromethane	ND	ug/l	10.					
Bromomethane	ND	ug/l	5.0					
Vinyl chloride	ND	ug/l	2.0					
Chloroethane	ND	ug/l	2.0					
1,1-Dichloroethene	ND	ug/l	1.0					
trans-1,2-Dichloroethene	ND	ug/l	1.5					
cis-1,2-Dichloroethene	ND	ug/l	1.0					
Trichloroethene	ND	ug/l	1.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
p/m-Xylene	ND	ug/l	2.0					
o-xylene	ND	ug/l	1.0					
Xylene (Total)	ND	ug/l	2.0					
Styrene	ND	ug/l	1.0					
Acetone	ND	ug/l	10.					
Carbon disulfide	ND	ug/l	5.0					
2-Butanone	ND	ug/l	10.					
Vinyl acetate	ND	ug/l	20.					
4-Methyl-2-pentanone	ND	ug/l	10.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0600756

Continued

PARAMETER	RESULT	UNITS	RDL	REF METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG227088-12)							
Volatile Organics by GC/MS 624 cont'd				5 624		0120 13:54	MM
2-Hexanone	ND	ug/l	10.				
Acrolein	ND	ug/l	8.0				
Acrylonitrile	ND	ug/l	10.				
Surrogate(s)	Recovery		QC Criteria				
Pentafluorobenzene	102.	%	80-120				
Fluorobenzene	104.	%	80-120				
4-Bromofluorobenzene	99.0	%	80-120				

REFERENCES

5. Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

14. Methods for the Determination of Organic Compounds in Finished Drinking Water and Raw Source Water. EPA/600/4-88/039, Revised July 1991.

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.

CHAIN OF CUSTODY

PAGE _____ OF _____

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Date Rec'd in Lab: 1/17/06

ALPHA Job #: L0600756

Client Information

Client: C&C

Address: 101 Accord PK Dr.
Norwell, MA

Phone: ?

Fax:

Email:

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: NPDES Permit/TOP's

Project Location: Belmont, MA

Project #: 11-1226

Project Manager: Mark G.

ALPHA Quote #:

Turn-Around Time

☐ Standard ☐ RUSH (only confirmed if pre-approved!)

Date Due: 1/24/06 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL

☑ ADEx ☐ Add'l Deliverables

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP	GW-1

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

☐ Yes ☐ No Are MCP Analytical Methods Required?

☐ Yes ☐ No Are Drinking Water Samples Submitted?

☐ Yes ☐ No Have you met minimum field QC requirements?

Other Project Specific Requirements/Comments/Detection Limits:

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS 624 / VOCs	ANALYSIS 504 / VOCs	SAMPLE HANDLING Filtration ☐ Done ☐ Not needed ☐ Lab to do Preservation ☐ Lab to do (Please specify below)	Sample Specific Comments	TOTAL # BOTTLES
0756.1	Sump Discharge	1/13/06	15:30	GW	PC					

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP ?

Container Type	V	V
Preservative	HCl	HCl

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Simpson	1/16/06 13:40	E.E. Cutter	1/17/06 10:40
E.E. Cutter	1/17/06 14:25		1/17 14:25

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01(rev. 14-May-04)

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: Coler & Colantonio

Address: 101 Accord Park Drive

Norwell, MA 02061

Attn: Mr. Paul Cinquegrano

Project Number: 11-12

Site: TOPS CLEANERS

Laboratory Job Number: L0600518

Date Received: 12-JAN-2006

Date Reported: 19-JAN-2006

Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L0600518-01	SUMP DISCHARGE	BELMONT, MA

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: Douglas Sheehy
Technical Director

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: L0600518-01
SUMP DISCHARGE
Sample Matrix: WATER

Date Collected: 12-JAN-2006 14:00
Date Received : 12-JAN-2006
Date Reported : 19-JAN-2006

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 10-Amber,4-Plastic

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Solids, Total Suspended	8.4	mg/l	5.0	4	160.2		0118 10:00	DT
Cyanide, Total	0.035	mg/l	0.005	4	335.2	0117 10:00	0117 15:49	ED
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		0112 20:40	HG
TPH	ND	mg/l	4.00	74	1664A	0118 10:15	0119 14:30	AT
Phenolics, Total	ND	mg/l	0.03	4	420.1		0116 11:00	AT
Chromium, Hexavalent	ND	mg/l	0.02	30	3500CR-D	0112 21:40	0112 21:40	HG
Total Metals				19	200.7			
Antimony, Total	ND	mg/l	0.005	3	200.9	0116 18:40	0118 15:05	PY
Arsenic, Total	ND	mg/l	0.005	19	200.7	0116 18:40	0117 13:57	RW
Cadmium, Total	ND	mg/l	0.0002	4	213.2	0116 18:40	0118 12:24	PY
Chromium, Total	ND	mg/l	0.01	19	200.7	0116 18:40	0117 13:57	RW
Copper, Total	ND	mg/l	0.01	19	200.7	0116 18:40	0117 13:57	RW
Iron, Total	0.43	mg/l	0.05	19	200.7	0116 18:40	0117 13:57	RW
Lead, Total	0.002	mg/l	0.001	3	200.9	0116 18:40	0118 19:48	PY
Mercury, Total	ND	mg/l	0.0002	4	245.2	0116 16:05	0117 10:12	DM
Nickel, Total	ND	mg/l	0.025	19	200.7	0116 18:40	0117 13:57	RW
Selenium, Total	ND	mg/l	0.005	19	200.7	0116 18:40	0117 13:57	RW
Silver, Total	ND	mg/l	0.0002	4	272.2	0116 18:40	0118 22:08	RC
Zinc, Total	ND	mg/l	0.050	19	200.7	0116 18:40	0117 13:57	RW
SVOC's by GC/MS 8270				1	8270C	0113 12:30	0116 20:07	RL
Acenaphthene	ND	ug/l	4.9					
Benzidine	ND	ug/l	49.					
1,2,4-Trichlorobenzene	ND	ug/l	4.9					
Hexachlorobenzene	ND	ug/l	4.9					
Bis(2-chloroethyl)ether	ND	ug/l	4.9					
1-Chloronaphthalene	ND	ug/l	4.9					
2-Chloronaphthalene	ND	ug/l	5.9					
1,2-Dichlorobenzene	ND	ug/l	4.9					
1,3-Dichlorobenzene	ND	ug/l	4.9					
1,4-Dichlorobenzene	ND	ug/l	4.9					
3,3'-Dichlorobenzidine	ND	ug/l	49.					

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0600518-01
SUMP DISCHARGE

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	0113 12:30	0116 20:07	RL
2,4-Dinitrotoluene	ND	ug/l	5.9					
2,6-Dinitrotoluene	ND	ug/l	4.9					
Azobenzene	ND	ug/l	4.9					
Fluoranthene	ND	ug/l	4.9					
4-Chlorophenyl phenyl ether	ND	ug/l	4.9					
4-Bromophenyl phenyl ether	ND	ug/l	4.9					
Bis(2-chloroisopropyl)ether	ND	ug/l	4.9					
Bis(2-chloroethoxy)methane	ND	ug/l	4.9					
Hexachlorobutadiene	ND	ug/l	9.8					
Hexachlorocyclopentadiene	ND	ug/l	9.8					
Hexachloroethane	ND	ug/l	4.9					
Isophorone	ND	ug/l	4.9					
Naphthalene	ND	ug/l	4.9					
Nitrobenzene	ND	ug/l	4.9					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	4.9					
Bis(2-ethylhexyl)phthalate	ND	ug/l	9.8					
Butyl benzyl phthalate	ND	ug/l	4.9					
Di-n-butylphthalate	ND	ug/l	4.9					
Di-n-octylphthalate	ND	ug/l	4.9					
Diethyl phthalate	ND	ug/l	4.9					
Dimethyl phthalate	ND	ug/l	4.9					
Benzo(a)anthracene	ND	ug/l	4.9					
Benzo(a)pyrene	ND	ug/l	4.9					
Benzo(b)fluoranthene	ND	ug/l	4.9					
Benzo(k)fluoranthene	ND	ug/l	4.9					
Chrysene	ND	ug/l	4.9					
Acenaphthylene	ND	ug/l	4.9					
Anthracene	ND	ug/l	4.9					
Benzo(ghi)perylene	ND	ug/l	4.9					
Fluorene	ND	ug/l	4.9					
Phenanthrene	ND	ug/l	4.9					
Dibenzo(a,h)anthracene	ND	ug/l	4.9					
Indeno(1,2,3-cd)pyrene	ND	ug/l	6.8					
Pyrene	ND	ug/l	4.9					
Benzo(e)pyrene	ND	ug/l	4.9					
Biphenyl	ND	ug/l	4.9					
Perylene	ND	ug/l	4.9					
Aniline	ND	ug/l	9.8					
4-Chloroaniline	ND	ug/l	4.9					
1-Methylnaphthalene	ND	ug/l	4.9					
2-Nitroaniline	ND	ug/l	4.9					
3-Nitroaniline	ND	ug/l	4.9					
4-Nitroaniline	ND	ug/l	6.8					
Dibenzofuran	ND	ug/l	4.9					
a,a-Dimethylphenethylamine	ND	ug/l	49.					
Hexachloropropene	ND	ug/l	9.8					
Nitrosodi-n-butylamine	ND	ug/l	9.8					
2-Methylnaphthalene	ND	ug/l	4.9					

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

Laboratory Sample Number: L0600518-01
SUMP DISCHARGE

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
SVOC's by GC/MS 8270 cont'd				1	8270C	0113 12:30	0116 20:07	RL
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	9.8					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	9.8					
Pentachloronitrobenzene	ND	ug/l	9.8					
Isodrin	ND	ug/l	9.8					
p-Dimethylaminoazobenzene	ND	ug/l	9.8					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	9.8					
n-Nitrosodimethylamine	ND	ug/l	49.					
2,4,6-Trichlorophenol	ND	ug/l	4.9					
p-Chloro-m-cresol	ND	ug/l	4.9					
2-Chlorophenol	ND	ug/l	5.9					
2,4-Dichlorophenol	ND	ug/l	9.8					
2,4-Dimethylphenol	ND	ug/l	9.8					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	9.8					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	6.8					
2-Methylphenol	ND	ug/l	5.9					
3-Methylphenol/4-Methylphenol	ND	ug/l	5.9					
2,4,5-Trichlorophenol	ND	ug/l	4.9					
2,6-Dichlorophenol	ND	ug/l	9.8					
Benzoic Acid	ND	ug/l	49.					
Benzyl Alcohol	ND	ug/l	9.8					
Carbazole	ND	ug/l	4.9					
Pyridine	ND	ug/l	49.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					

Surrogate(s)	Recovery		QC Criteria
2-Fluorophenol	37.0	%	21-120
Phenol-d6	30.0	%	10-120
Nitrobenzene-d5	64.0	%	23-120
2-Fluorobiphenyl	62.0	%	43-120
2,4,6-Tribromophenol	81.0	%	10-120
4-Terphenyl-d14	86.0	%	33-120

PAH by GC/MS SIM 8270M				1	8270C-M	0113 12:30	0116 13:22	RL

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

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L0600518-01
SUMP DISCHARGE

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	0113 12:30	0116 13:22	RL
Acenaphthene	ND	ug/l	0.20					
2-Chloronaphthalene	ND	ug/l	0.20					
Fluoranthene	ND	ug/l	0.20					
Hexachlorobutadiene	ND	ug/l	0.49					
Naphthalene	ND	ug/l	0.20					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Chrysene	ND	ug/l	0.20					
Acenaphthylene	ND	ug/l	0.20					
Anthracene	ND	ug/l	0.20					
Benzo(ghi)perylene	ND	ug/l	0.20					
Fluorene	ND	ug/l	0.20					
Phenanthrene	ND	ug/l	0.20					
Dibenzo(a,h)anthracene	ND	ug/l	0.20					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20					
Pyrene	ND	ug/l	0.20					
1-Methylnaphthalene	ND	ug/l	0.20					
2-Methylnaphthalene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.78					
Hexachlorobenzene	ND	ug/l	0.78					
Perylene	ND	ug/l	0.20					
Biphenyl	ND	ug/l	0.20					
2,6-Dimethylnaphthalene	ND	ug/l	0.20					
1-Methylphenanthrene	ND	ug/l	0.20					
Benzo(e)Pyrene	ND	ug/l	0.20					
Hexachloroethane	ND	ug/l	0.78					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	43.0	%	21-120					
Phenol-d6	34.0	%	10-120					
Nitrobenzene-d5	65.0	%	23-120					
2-Fluorobiphenyl	56.0	%	43-120					
2,4,6-Tribromophenol	61.0	%	10-120					
4-Terphenyl-d14	58.0	%	33-120					
Polychlorinated Biphenyls				5	608	0113 10:45	0117 03:04	SS
Aroclor 1221	ND	ug/l	0.258					
Aroclor 1232	ND	ug/l	0.258					
Aroclor 1242/1016	ND	ug/l	0.258					
Aroclor 1248	ND	ug/l	0.258					
Aroclor 1254	ND	ug/l	0.258					
Aroclor 1260	ND	ug/l	0.258					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	51.0	%	30-150					
Decachlorobiphenyl	68.0	%	30-150					

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

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L0600518

Parameter	Value 1	Value 2	Units	RPD	RPD Limits
Solids, Total Suspended for sample(s) 01 (L0600451-01, WG227043-2)					
Solids, Total Suspended	160	160	mg/l	0	20
Cyanide, Total for sample(s) 01 (L0600488-04, WG226776-4)					
Cyanide, Total	0.138	0.137	mg/l	1	30
Chlorine, Total Residual for sample(s) 01 (L0600518-01, WG226604-3)					
Chlorine, Total Residual	ND	ND	mg/l	NC	
TPH for sample(s) 01 (L0600518-01, WG227211-4)					
TPH	ND	ND	mg/l	NC	34
Phenolics, Total for sample(s) 01 (L0600518-01, WG226902-4)					
Phenolics, Total	ND	ND	mg/l	NC	
Chromium, Hexavalent for sample(s) 01 (L0600518-01, WG226611-4)					
Chromium, Hexavalent	ND	ND	mg/l	NC	
Total Metals for sample(s) 01 (L0600518-01, WG226877-1)					
Antimony, Total	ND	ND	mg/l	NC	
Arsenic, Total	ND	ND	mg/l	NC	
Cadmium, Total	ND	ND	mg/l	NC	
Chromium, Total	ND	ND	mg/l	NC	
Copper, Total	ND	ND	mg/l	NC	
Iron, Total	0.43	0.43	mg/l	0	
Lead, Total	0.002	0.003	mg/l	11	
Nickel, Total	ND	ND	mg/l	NC	
Selenium, Total	ND	ND	mg/l	NC	
Silver, Total	ND	ND	mg/l	NC	
Zinc, Total	ND	0.056	mg/l	NC	
Total Metals for sample(s) 01 (L0600137-01, WG226850-3)					
Mercury, Total	ND	ND	mg/l	NC	
Polychlorinated Biphenyls for sample(s) 01 (L0600518-01, WG226718-4)					
Aroclor 1221	ND	ND	ug/l	NC	30
Aroclor 1232	ND	ND	ug/l	NC	30
Aroclor 1242/1016	ND	ND	ug/l	NC	30
Aroclor 1248	ND	ND	ug/l	NC	30
Aroclor 1254	ND	ND	ug/l	NC	30
Aroclor 1260	ND	ND	ug/l	NC	30

Surrogate(s)	Recovery			QC Criteria
2,4,5,6-Tetrachloro-m-xylene	51.0	62.0	%	30-150
Decachlorobiphenyl	68.0	74.0	%	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0600518

Parameter	% Recovery	QC Criteria
Cyanide, Total LCS for sample(s) 01 (WG226776-2)		
Cyanide, Total	103	90-110
Chlorine, Total Residual LCS for sample(s) 01 (WG226604-2)		
Chlorine, Total Residual	105	
TPH LCS for sample(s) 01 (WG227211-2)		
TPH	85	64-132
Phenolics, Total LCS for sample(s) 01 (WG226902-2)		
Phenolics, Total	94	
Chromium, Hexavalent LCS for sample(s) 01 (WG226611-2)		
Chromium, Hexavalent	99	
Total Metals LCS for sample(s) 01 (WG226877-4)		
Antimony, Total	99	
Arsenic, Total	102	
Cadmium, Total	90	
Chromium, Total	100	
Copper, Total	96	
Iron, Total	95	
Lead, Total	107	
Nickel, Total	98	
Selenium, Total	102	
Silver, Total	104	
Zinc, Total	97	
Total Metals LCS for sample(s) 01 (WG226850-1)		
Mercury, Total	102	
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG226714-2)		
Acenaphthene	76	46-118
1,2,4-Trichlorobenzene	72	39-98
2-Chloronaphthalene	80	40-140
1,2-Dichlorobenzene	59	40-140
1,4-Dichlorobenzene	56	36-97
2,4-Dinitrotoluene	96	24-96
2,6-Dinitrotoluene	100	40-140
Fluoranthene	90	40-140
4-Chlorophenyl phenyl ether	84	40-140
n-Nitrosodi-n-propylamine	66	41-116
Butyl benzyl phthalate	88	40-140
Anthracene	54	40-140
Pyrene	85	26-127
Hexachloropropene	66	40-140
P-Chloro-M-Cresol	82	23-97
2-Chlorophenol	64	27-123
2-Nitrophenol	74	30-130

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0600518

Continued

Parameter	% Recovery	QC Criteria
SVOC's by GC/MS 8270 LCS for sample(s) 01 (WG226714-2)		
4-Nitrophenol	46	10-80
2,4-Dinitrophenol	92	30-130
Pentachlorophenol	80	9-103
Phenol	28	12-110
Surrogate(s)		
2-Fluorophenol	42	21-120
Phenol-d6	37	10-120
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	81	43-120
2,4,6-Tribromophenol	97	10-120
4-Terphenyl-d14	99	33-120
PAH by GC/MS SIM 8270M LCS for sample(s) 01 (WG226715-2)		
Acenaphthene	59	46-118
2-Chloronaphthalene	70	
Fluoranthene	84	
Anthracene	56	
Pyrene	92	26-127
Pentachlorophenol	72	9-103
Surrogate(s)		
2-Fluorophenol	51	21-120
Phenol-d6	41	10-120
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	57	43-120
2,4,6-Tribromophenol	61	10-120
4-Terphenyl-d14	59	33-120
Polychlorinated Biphenyls LCS for sample(s) 01 (WG226718-2)		
Aroclor 1242/1016	76	40-140
Aroclor 1260	76	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	70	30-150
Decachlorobiphenyl	54	30-150
Cyanide, Total SPIKE for sample(s) 01 (L0600455-02, WG226776-3)		
Cyanide, Total	4	80-120
TPH SPIKE for sample(s) 01 (L0600575-01, WG227211-3)		
TPH	84	64-132
Phenolics, Total SPIKE for sample(s) 01 (L0600384-02, WG226902-3)		
Phenolics, Total	90	

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH SPIKE ANALYSES

Laboratory Job Number: L0600518

Continued

Parameter	% Recovery	QC Criteria
Chromium, Hexavalent SPIKE for sample(s) 01 (L0600518-01, WG226611-3)		
Chromium, Hexavalent	95	
Total Metals SPIKE for sample(s) 01 (L0600518-01, WG226877-2)		
Antimony, Total	103	
Arsenic, Total	109	
Cadmium, Total	100	
Chromium, Total	100	
Copper, Total	104	
Iron, Total	97	
Lead, Total	116	
Nickel, Total	101	
Selenium, Total	106	
Silver, Total	110	
Zinc, Total	114	
Total Metals SPIKE for sample(s) 01 (L0600137-01, WG226850-2)		
Mercury, Total	117	
Polychlorinated Biphenyls SPIKE for sample(s) 01 (L0600518-01, WG226718-3)		
Aroclor 1242/1016	63	40-140
Aroclor 1260	76	40-140
Surrogate(s)		
2,4,5,6-Tetrachloro-m-xylene	53	30-150
Decachlorobiphenyl	74	30-150

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L0600518

Parameter	MS %	MSD %	RPD	RPD Limit	MS/MSD Limits
SVOC's by GC/MS 8270 for sample(s) 01 (L0600518-01, WG226714-4)					
Acenaphthene	71	71	0	30	46-118
1,2,4-Trichlorobenzene	66	66	0	30	39-98
2-Chloronaphthalene	75	75	0	30	40-140
1,2-Dichlorobenzene	56	61	9	30	40-140
1,4-Dichlorobenzene	52	56	7	30	36-97
2,4-Dinitrotoluene	94	94	0	30	24-96
2,6-Dinitrotoluene	99	94	5	30	40-140
Fluoranthene	94	89	5	30	40-140
4-Chlorophenyl phenyl ether	80	80	0	30	40-140
n-Nitrosodi-n-propylamine	61	61	0	30	41-116
Butyl benzyl phthalate	94	85	10	30	40-140
Anthracene	56	56	0	30	40-140
Pyrene	85	85	0	30	26-127
Hexachloropropene	66	66	0	30	40-140
P-Chloro-M-Cresol	78	80	3	30	23-97
2-Chlorophenol	63	66	5	30	27-123
2-Nitrophenol	73	75	3	30	30-130
4-Nitrophenol	71	71	0	30	10-80
2,4-Dinitrophenol	96	100	4	30	30-130
Pentachlorophenol	85	82	4	30	9-103
Phenol	40	42	5	30	12-110
Surrogate(s)					
2-Fluorophenol	49	56	13		21-120
Phenol-d6	51	57	11		10-120
Nitrobenzene-d5	62	67	8		23-120
2-Fluorobiphenyl	73	74	1		43-120
2,4,6-Tribromophenol	94	93	1		10-120
4-Terphenyl-d14	96	94	2		33-120
PAH by GC/MS SIM 8270M for sample(s) 01 (L0600518-01, WG226715-4)					
Acenaphthene	52	56	7	40	46-118
2-Chloronaphthalene	61	61	0	40	
Fluoranthene	89	89	0	40	
Anthracene	52	47	10	40	
Pyrene	89	85	5	40	26-127
Pentachlorophenol	80	80	0	40	9-103
Surrogate(s)					
2-Fluorophenol	64	71	10		21-120
Phenol-d6	61	68	11		10-120
Nitrobenzene-d5	77	83	8		23-120
2-Fluorobiphenyl	62	63	2		43-120
2,4,6-Tribromophenol	68	70	3		10-120
4-Terphenyl-d14	68	71	4		33-120

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0600518

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG227043-1)								
Solids, Total Suspended	ND	mg/l	5.0	4	160.2		0118 10:00	DT
Blank Analysis for sample(s) 01 (WG226776-1)								
Cyanide, Total	ND	mg/l	0.005	4	335.2	0117 10:00	0117 15:41	ED
Blank Analysis for sample(s) 01 (WG226604-1)								
Chlorine, Total Residual	ND	mg/l	0.05	4	330.1		0112 20:40	HG
Blank Analysis for sample(s) 01 (WG227211-1)								
TPH	ND	mg/l	4.00	74	1664A	0118 10:15	0119 14:30	AT
Blank Analysis for sample(s) 01 (WG226902-1)								
Phenolics, Total	ND	mg/l	0.03	4	420.1		0116 11:00	AT
Blank Analysis for sample(s) 01 (WG226611-1)								
Chromium, Hexavalent	ND	mg/l	0.02	30	3500CR-D	0112 21:40	0112 21:40	HG
Blank Analysis for sample(s) 01 (WG226877-3)								
Total Metals				19	200.7			
Antimony, Total	ND	mg/l	0.005	3	200.9	0116 18:40	0118 14:52	PY
Arsenic, Total	ND	mg/l	0.005	19	200.7	0116 18:40	0117 13:51	RW
Cadmium, Total	ND	mg/l	0.0002	4	213.2	0116 18:40	0118 12:13	PY
Chromium, Total	ND	mg/l	0.01	19	200.7	0116 18:40	0117 13:51	RW
Copper, Total	ND	mg/l	0.01	19	200.7	0116 18:40	0117 13:51	RW
Iron, Total	ND	mg/l	0.05	19	200.7	0116 18:40	0117 13:51	RW
Lead, Total	ND	mg/l	0.001	3	200.9	0116 18:40	0118 19:34	PY
Nickel, Total	ND	mg/l	0.025	19	200.7	0116 18:40	0117 13:51	RW
Selenium, Total	ND	mg/l	0.005	19	200.7	0116 18:40	0117 13:51	RW
Silver, Total	ND	mg/l	0.0002	4	272.2	0116 18:40	0118 21:55	RC
Zinc, Total	ND	mg/l	0.050	19	200.7	0116 18:40	0117 13:51	RW
Blank Analysis for sample(s) 01 (WG226850-4)								
Total Metals								
Mercury, Total	ND	mg/l	0.0002	4	245.2	0116 16:05	0117 09:43	DM
Blank Analysis for sample(s) 01 (WG226714-1)								
SVOC's by GC/MS 8270				1	8270C	0113 12:30	0116 18:27	RL
Acenaphthene	ND	ug/l	5.0					
Benzidine	ND	ug/l	50.					

Laboratory Job Number: L0600518

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG226714-1)								
SVOC's by GC/MS 8270 cont'd				1	8270C	0113 12:30	0116 18:27	RL
1,2,4-Trichlorobenzene	ND	ug/l	5.0					
Hexachlorobenzene	ND	ug/l	5.0					
Bis(2-chloroethyl)ether	ND	ug/l	5.0					
1-Chloronaphthalene	ND	ug/l	5.0					
2-Chloronaphthalene	ND	ug/l	6.0					
1,2-Dichlorobenzene	ND	ug/l	5.0					
1,3-Dichlorobenzene	ND	ug/l	5.0					
1,4-Dichlorobenzene	ND	ug/l	5.0					
3,3'-Dichlorobenzidine	ND	ug/l	50.					
2,4-Dinitrotoluene	ND	ug/l	6.0					
2,6-Dinitrotoluene	ND	ug/l	5.0					
Azobenzene	ND	ug/l	5.0					
Fluoranthene	ND	ug/l	5.0					
4-Chlorophenyl phenyl ether	ND	ug/l	5.0					
4-Bromophenyl phenyl ether	ND	ug/l	5.0					
Bis(2-chloroisopropyl)ether	ND	ug/l	5.0					
Bis(2-chloroethoxy)methane	ND	ug/l	5.0					
Hexachlorobutadiene	ND	ug/l	10.					
Hexachlorocyclopentadiene	ND	ug/l	10.					
Hexachloroethane	ND	ug/l	5.0					
Isophorone	ND	ug/l	5.0					
Naphthalene	ND	ug/l	5.0					
Nitrobenzene	ND	ug/l	5.0					
NDPA/DPA	ND	ug/l	15.					
n-Nitrosodi-n-propylamine	ND	ug/l	5.0					
Bis(2-ethylhexyl)phthalate	ND	ug/l	10.					
Butyl benzyl phthalate	ND	ug/l	5.0					
Di-n-butylphthalate	ND	ug/l	5.0					
Di-n-octylphthalate	ND	ug/l	5.0					
Diethyl phthalate	ND	ug/l	5.0					
Dimethyl phthalate	ND	ug/l	5.0					
Benzo(a)anthracene	ND	ug/l	5.0					
Benzo(a)pyrene	ND	ug/l	5.0					
Benzo(b)fluoranthene	ND	ug/l	5.0					
Benzo(k)fluoranthene	ND	ug/l	5.0					
Chrysene	ND	ug/l	5.0					
Acenaphthylene	ND	ug/l	5.0					
Anthracene	ND	ug/l	5.0					
Benzo(ghi)perylene	ND	ug/l	5.0					
Fluorene	ND	ug/l	5.0					
Phenanthrene	ND	ug/l	5.0					
Dibenzo(a,h)anthracene	ND	ug/l	5.0					
Indeno(1,2,3-cd)pyrene	ND	ug/l	7.0					
Pyrene	ND	ug/l	5.0					
Benzo(e)pyrene	ND	ug/l	5.0					
Biphenyl	ND	ug/l	5.0					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0600518

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG226714-1)								
SVOC's by GC/MS 8270 cont'd				1	8270C	0113 12:30	0116 18:27	RL
Perylene	ND	ug/l	5.0					
Aniline	ND	ug/l	10.					
4-Chloroaniline	ND	ug/l	5.0					
1-Methylnaphthalene	ND	ug/l	5.0					
2-Nitroaniline	ND	ug/l	5.0					
3-Nitroaniline	ND	ug/l	5.0					
4-Nitroaniline	ND	ug/l	7.0					
Dibenzofuran	ND	ug/l	5.0					
a,a-Dimethylphenethylamine	ND	ug/l	50.					
Hexachloropropene	ND	ug/l	10.					
Nitrosodi-n-butylamine	ND	ug/l	10.					
2-Methylnaphthalene	ND	ug/l	5.0					
1,2,4,5-Tetrachlorobenzene	ND	ug/l	20.					
Pentachlorobenzene	ND	ug/l	20.					
a-Naphthylamine	ND	ug/l	20.					
b-Naphthylamine	ND	ug/l	20.					
Phenacetin	ND	ug/l	10.					
Dimethoate	ND	ug/l	20.					
4-Aminobiphenyl	ND	ug/l	10.					
Pentachloronitrobenzene	ND	ug/l	10.					
Isodrin	ND	ug/l	10.					
p-Dimethylaminoazobenzene	ND	ug/l	10.					
Chlorobenzilate	ND	ug/l	20.					
3-Methylcholanthrene	ND	ug/l	20.					
Ethyl Methanesulfonate	ND	ug/l	15.					
Acetophenone	ND	ug/l	20.					
Nitrosodipiperidine	ND	ug/l	20.					
7,12-Dimethylbenz(a)anthracene	ND	ug/l	10.					
n-Nitrosodimethylamine	ND	ug/l	50.					
2,4,6-Trichlorophenol	ND	ug/l	5.0					
p-Chloro-m-cresol	ND	ug/l	5.0					
2-Chlorophenol	ND	ug/l	6.0					
2,4-Dichlorophenol	ND	ug/l	10.					
2,4-Dimethylphenol	ND	ug/l	10.					
2-Nitrophenol	ND	ug/l	20.					
4-Nitrophenol	ND	ug/l	10.					
2,4-Dinitrophenol	ND	ug/l	20.					
4,6-Dinitro-o-cresol	ND	ug/l	20.					
Pentachlorophenol	ND	ug/l	20.					
Phenol	ND	ug/l	7.0					
2-Methylphenol	ND	ug/l	6.0					
3-Methylphenol/4-Methylphenol	ND	ug/l	6.0					
2,4,5-Trichlorophenol	ND	ug/l	5.0					
2,6-Dichlorophenol	ND	ug/l	10.					
Benzoic Acid	ND	ug/l	50.					
Benzyl Alcohol	ND	ug/l	10.					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0600518

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG226714-1)								
SVOC's by GC/MS 8270 cont'd				1	8270C	0113 12:30	0116 18:27	RL
Carbazole	ND	ug/l	5.0					
Pyridine	ND	ug/l	50.					
2-Picoline	ND	ug/l	20.					
Pronamide	ND	ug/l	20.					
Methyl methanesulfonate	ND	ug/l	20.					
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	49.0	%	21-120					
Phenol-d6	40.0	%	10-120					
Nitrobenzene-d5	76.0	%	23-120					
2-Fluorobiphenyl	73.0	%	43-120					
2,4,6-Tribromophenol	88.0	%	10-120					
4-Terphenyl-d14	90.0	%	33-120					
Blank Analysis for sample(s) 01 (WG226715-1)								
PAH by GC/MS SIM 8270M				1	8270C-M	0113 12:30	0116 12:37	RL
Acenaphthene	ND	ug/l	0.20					
2-Chloronaphthalene	ND	ug/l	0.20					
Fluoranthene	ND	ug/l	0.20					
Hexachlorobutadiene	ND	ug/l	0.50					
Naphthalene	ND	ug/l	0.20					
Benzo(a)anthracene	ND	ug/l	0.20					
Benzo(a)pyrene	ND	ug/l	0.20					
Benzo(b)fluoranthene	ND	ug/l	0.20					
Benzo(k)fluoranthene	ND	ug/l	0.20					
Chrysene	ND	ug/l	0.20					
Acenaphthylene	ND	ug/l	0.20					
Anthracene	ND	ug/l	0.20					
Benzo(ghi)perylene	ND	ug/l	0.20					
Fluorene	ND	ug/l	0.20					
Phenanthrene	ND	ug/l	0.20					
Dibenzo(a,h)anthracene	ND	ug/l	0.20					
Indeno(1,2,3-cd)Pyrene	ND	ug/l	0.20					
Pyrene	ND	ug/l	0.20					
1-Methylnaphthalene	ND	ug/l	0.20					
2-Methylnaphthalene	ND	ug/l	0.20					
Pentachlorophenol	ND	ug/l	0.80					
Hexachlorobenzene	ND	ug/l	0.80					
Perylene	ND	ug/l	0.20					
Biphenyl	ND	ug/l	0.20					
2,6-Dimethylnaphthalene	ND	ug/l	0.20					
1-Methylphenanthrene	ND	ug/l	0.20					
Benzo(e)Pyrene	ND	ug/l	0.20					
Hexachloroethane	ND	ug/l	0.80					

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH BLANK ANALYSIS

Laboratory Job Number: L0600518

Continued

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATE PREP	DATE ANAL	ID
Blank Analysis for sample(s) 01 (WG226715-1)								
PAH by GC/MS SIM 8270M cont'd				1	8270C-M	0113 12:30	0116 12:37	RL
Surrogate(s)	Recovery		QC Criteria					
2-Fluorophenol	57.0	%	21-120					
Phenol-d6	46.0	%	10-120					
Nitrobenzene-d5	82.0	%	23-120					
2-Fluorobiphenyl	65.0	%	43-120					
2,4,6-Tribromophenol	69.0	%	10-120					
4-Terphenyl-d14	74.0	%	33-120					
Blank Analysis for sample(s) 01 (WG226718-1)								
Polychlorinated Biphenyls				5	608	0113 10:45	0117 01:10	SS
Aroclor 1221	ND	ug/l	0.250					
Aroclor 1232	ND	ug/l	0.250					
Aroclor 1242/1016	ND	ug/l	0.250					
Aroclor 1248	ND	ug/l	0.250					
Aroclor 1254	ND	ug/l	0.250					
Aroclor 1260	ND	ug/l	0.250					
Surrogate(s)	Recovery		QC Criteria					
2,4,5,6-Tetrachloro-m-xylene	60.0	%	30-150					
Decachlorobiphenyl	35.0	%	30-150					

REFERENCES

1. Test Methods for Evaluating Solid Waste: Physical/Chemical Methods. EPA SW-846. Third Edition. Updates I - IIIA, 1997.

3. Methods for the Determination of Metals in Environmental Samples, Supplement I. EPA/600/R-94/111. May 1994.

4. Methods for Chemical Analysis of Water and Wastes. EPA 600/4-79-020. Revised March 1983.

5. Methods for the Organic Chemical Analysis of Municipal and Industrial Wastewater. Appendix A, Part 136, 40 CFR (Code of Federal Regulations).

19. Inductively Coupled Plasma Atomic Emission Spectrometric Method for Trace Element Analysis of Water and Wastes. Appendix C, Part 136, 40 CFR (Code of Federal Regulations). July 1, 1999 edition.

30. Standard Methods for the Examination of Water and Wastewater. APHA-AWWA-WPCF. 18th Edition. 1992.

74. Method 1664,Revision A: N-Hexane Extractable Material (HEM; Oil & Grease) and Silica Gel Treated N-Hexane Extractable Material (SGT-HEM; Non-polar Material) by Extraction and Gravimetry, EPA-821-R-98-002, February 1999.

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.

NPDES RGP Project on Wheels

CHAIN OF CUSTODY PAGE ____ OF ____

Date Rec'd in Lab: 1/12.

ALPHA Job #: L0600578.

Eight Walkup Drive Westborough, MA 01581
TEL: 508-898-9220 FAX: 508-898-9193

Client Information

Client: C&C
Address: 101 Accord Pk Dr. Norwell, MA
Phone: 781 792-2234
Fax:
Email:
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: Tops Cleaners B
Project Location: Belmont, MA
Project #: 11-12
Project Manager: Mary G
ALPHA Quote #:

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: 1/19 Time:

Report Information - Data Deliverables

☐ FAX ☑ EMAIL
☐ ADEx ☐ Add'l Deliverables

Billing Information

☐ Same as Client info PO #:

Regulatory Requirements/Report Limits

State /Fed Program	Criteria
MA MCP/NPDES	NPDES

MCP PRESUMPTIVE CERTAINTY - THESE QUESTIONS MUST BE ANSWERED

☐ Yes ☐ No Are MCP Analytical Methods Required?
☐ Yes ☐ No Are Drinking Water Samples Submitted?
☐ Yes ☐ No Have you met minimum field QC requirements?

Other Project Specific Requirements/Comments/Detection Limits:

SAMPLE HANDLING

Filtration
☐ Done
☐ Not needed
☐ Lab to do
Preservation
☐ Lab to do
(Please specify below)

ALPHA Lab ID (Lab Use Only)	Sample ID	Collection Date	Collection Time	Sample Matrix	Sampler's Initials	ANALYSIS: NPDES Permit	Total Metals	TSS	TRC, Hex Cr 9222D	PAH Low PAH-1664	TCL Phenol + PCB's	Sample Specific Comments
0518-1	Sump Discharge	1/12/06	14:00	GW	PC	X						Individual Parameters of FW PDES. Vials for 624 & 504 Forthcoming tomorrow.

See bottles (various)

TOTAL # BOTTLES

QUESTIONS ABOVE MUST BE ANSWERED FOR PRESUMPTIVE CERTAINTY

IS YOUR PROJECT MCP ?

	Container Type	Preservative
	X	X

Relinquished By:	Date/Time	Received By:	Date/Time
Paul Ruggiero	1/12/06 15:00		1/12/06 15:50
	1/12 1915		1/12 1915

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Payment Terms. See reverse side.

FORM NO: 01-01(rev. 14-May-04)