ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADMEY
NEW HAVEN, CONNECTICUT
PROJECT: BI-FP-008A

BID OPENING	**1:00 P.M.**	**MAY 27, 2009**
ADDENDUM NUMBER TWO	**DATE OF ADDENDUM**	**MAY 20, 2009**

The following is applicable to the project referenced above.

Item 1
The bid opening shall be changed from May 27, 2009 at 1:00 p.m. to May 29, 2009 at 1:00 p.m.

END OF ADDENDUM NUMBER 2

Barbara Bergeron, Associate Fiscal Administrative Officer
Department of Public Works

INTERDEPARTMENTAL MEMORANDUM

TO: David Busanet, Purchasing Services Officer
Procurement Unit, Room G-35
165 Capitol Avenue, Hartford, CT 06106

FROM: Carlton Grodotzke, Project Manager cag
OuilletteTeam, Room 460
165 Capitol Avenue, Hartford, CT 06106

DATE: May 19, 2009

SUBJECT: ADDENDUM # 1

PROJECT TITLE: Additions to New Haven Regional Fire Academy
230 Ella T Grasso Boulevard
New Haven, Connecticut

PROJECT NO.: BI-FP-008A

SCHEDULED BID OPENING: May 27, 2009

Please expedite the attached Addendum # 1 .

1. The total number of pages in this addendum is: 185 .
2. The total number of drawings in this addendum is: NA .
3. See attached Revised "Bid Released" form (55) dated: NA .
4. PM to explain reason for addendum (clarification purposes, added work, etc.). Will addendum save money or cost more?

   This addendum will clarify the drawings and the specifications as well as save money.

Attachment

cc: Michael Grant, Agency
Don Ouillette, DPW
Fran Kobylenski / Joelvito Villaluz, Dewberry-Goodkind, Inc.
Team File (R2)

ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY
230 ELLA T.GRASSO BOULEVARD
NEW HAVEN, CONNECTICUT

PROJECT NO. BI-FP-008A

BID OPENING	**1:00PM**	**MAY 27, 2009**
ADDENDUM NUMBER 1	**DATE OF ADDENDUM:**	**MAY 19, 2009**

This Addendum consists of revisions, changes and clarifications to the following drawings and specifications as enumerated. All other elements of the construction documents are to remain as issued.

Modifications described herein as Addendum items supersede specific parts of the Contract documents for this project. All bids and the construction contract shall be based on the inclusion of these modifications.

Item Description

General Requirements

Item 1: SUMMARY OF WORK

1.1 Summary of Work

RFI: "The Summary of Work references several items as being part of the project but no specifications or locations are designated on the plans. Please clarify whether the following items are to be included as part of this contract: Laminate clad casework, Visual Display Boards, Projection Screens, Louver Blinds."

Response: ***The following items are not included as part of this contract: Laminate clad casework, Visual Display Boards, Projection Screens, Louver Blinds.***

1.2 Construction Facilities and Temporary Controls

RFI: "Regarding Spec Section 01010 – Summary of work, specifically H.4: Our company utilizes Prolog Manager currently. Will we be required to purchase 5 additional licenses for the DPW, or is this section specifying that we only need to utilize Prolog Manager? Similarly, H.5 requires that we provide training to various DPW, Owner, Agency personnel on the use of Prolog Manager – is the overall intention of this section for the Contractor to purchase 5 licenses for the use by the Owner, DPW, Construction Administrator, etc, and train them on the use of the software."

Response: H.4; ***Contractor will be required to purchase 5 concurrent Prolog licenses for CT-DPW. H.5; Yes, the Contractor shall purchase 5 concurrent licenses for use by the Owner, DPW, Construction Administrator, etc., and train them on the use of the software.***

1.3 Field Offices

RFI: Specification Section 01500 requires that the Contractor provide for the Construction Administrator and Owner (3) 12'x 60' field office trailers fully outfitted with desks, chairs, table, display boards, plan racks, file cabinets, fax machines, three laser printers, four copy machines, digital cameras, and a total of seven computers (among other things). Please confirm that these quantities are correctly listed and required in the Contractor's bid.

Response: ***Bidders to refer to Section 01500 Part 3.3 B.2 found on Page 11 of 21 of that section. Delete Sections 01500 Part 3.3 B.2 found on Page 10 of 21 and 01500 Part 3.3 B.2 found on Page 12 of 21.***

1.4 Allowed Contract Time

RFI: "The anticipated schedule allows for 280 calendar days to complete the project. Please confirm that the Contractor will be able to work simultaneously on all buildings necessary including the TSB, Admin Building, Burn Building, Fire Training Tower, Briefing Shelter, Fire Training and Rescue props, in order to achieve the desired schedule."

Response: ***Yes, the Contractor can work simultaneously on all buildings as long as work will not interfere with the operations of the facility. It will be the responsibility of the Contractor to coordinate with the owner, CA, and CT-DPW. See also Part 1.7 Section 01010.***

1.5 Units Prices

RFI: "The Bid Proposal Form Section 7.7 indicates that no Contractor Provided Units Prices are required on the Bid Proposal Form. Section 01019, Parts D and E, show blank tables for some Unit Prices. Please confirm that no Contractor Provided Unit Prices are to be included on the Bid Proposal Form.

Response: This is to confirm that <u>no</u> Contractor Provided Unit Prices shall be included in the Bid Proposal Form.

<u>Item Description</u>

Civil

<u>Item 2: BITUMINOUS CURB DETAIL</u>

2.1 Civil Drawing
Detail of the bituminous curb is on Sheet C-13 labeled as Detail 4.

Item 3: CHAINLINK FENCE AND GATE

3.1 Chainlink Fence
Correction:
Section 02830 Part 2.01 A. shall be "Steel frame work: End posts, corner posts, pull posts and line posts – Class B Steel Tubing 2.375" OD (2" nominal), 3.65 lb per linear foot; SS-40 Fence Post.

3.2 Chainlink Gate
Correction:
Section 02830 Part 2.01 C. shall be "Swing Gate Posts: Pipe – 4.5" O.D. (4" nominal), 10.79 lb per linear feet.
Add: Civil drawing to this Addendum.
SKC-1: Referencing chainlink gate detail (C-9)

Item Description

Information Available to Bidders

Item 4: BORING LOGS

4.1 Geotechnical Report
Boring logs shown on Sheets C-14 to C-17 (inclusive) were boring logs done around 1974 for the design of the existing structures. Boring logs for the proposed Training Support Building are in the Geotechnical Report prepared by Dewberry, Inc. included in this addendum as Attachment "A". Excerpts of the 1974 boring logs are also included in the report for the proposed addition (to be on pile) to the proposed Burn Building.

4.2 Subsurface Contaminated Soil Report
Shallow soil condition borings and report conducted by Logical Environmental Solutions LLC is included in this addendum as Attachment "B".

4.3 Report on suspected asbestos containing materials
A report on a limited inspection of asbestos-containing roofing material on the Drill Tower Roof conducted by PAYNE environmental LLC is included in this addendum as Attachment "C".

Item Description

Architectural

Item 5: SUSPENDED CANOPY SYSTEMS

5.1 Architectural Specifications

Add

Section 10730 – Suspended Canopy Systems, as attached to this addendum (Attachment "D").

Item 6: ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

6.1 Architectural Specifications

Delete

Section 08411 Part 2.5 Sub-paragraph B.

6.2 Aluminum Door Hardware

The aluminum entrance installer/contractor is responsible to submit and install the aluminum storefront system complete with hardware. Refer to Sections 08411-1.5F; 08411-1.9 Maintenance Instructions; 08411-2.8F, G; 08411-32. G.

Item 7: BURN BUILDING DOORS AND HARDWARE

7.1 Architectural drawings

Details for the Burn Building doors and hardware are included in the Burn Building plans. Details are on Sheets BB402, BB403, and BB404. Door schedule is on Sheet BB405.

Item 8: DOOR HARDWARE

8.1 Specifications

Add:

To Section 08710 Part 2.8 G, Schlage ND Series (cylinder locks) & Schlage L9000 series (mortise locks).

To Section 08710 Part 2.11 D, Falcon Closer SC70 series.

Item 9: ROOF PANELS FOR THE TRAINING SUPPORT BUILDING

9.1 Specifications

Add:

To Section 13125 Part 2.9 – Metal Roof Panel: Butler; MR-24 ga. 24.

To Section 13125 Part 2.11 A – Metal Wall Panel Manufactturers: Butler; Rib II type panels 36", ga. 24.

Item Description

Structural

Item 10: Foundation Plan

10.1 S-100 Notes

Delete:
Note 3 on alternative.

10.2 Burn Chamber

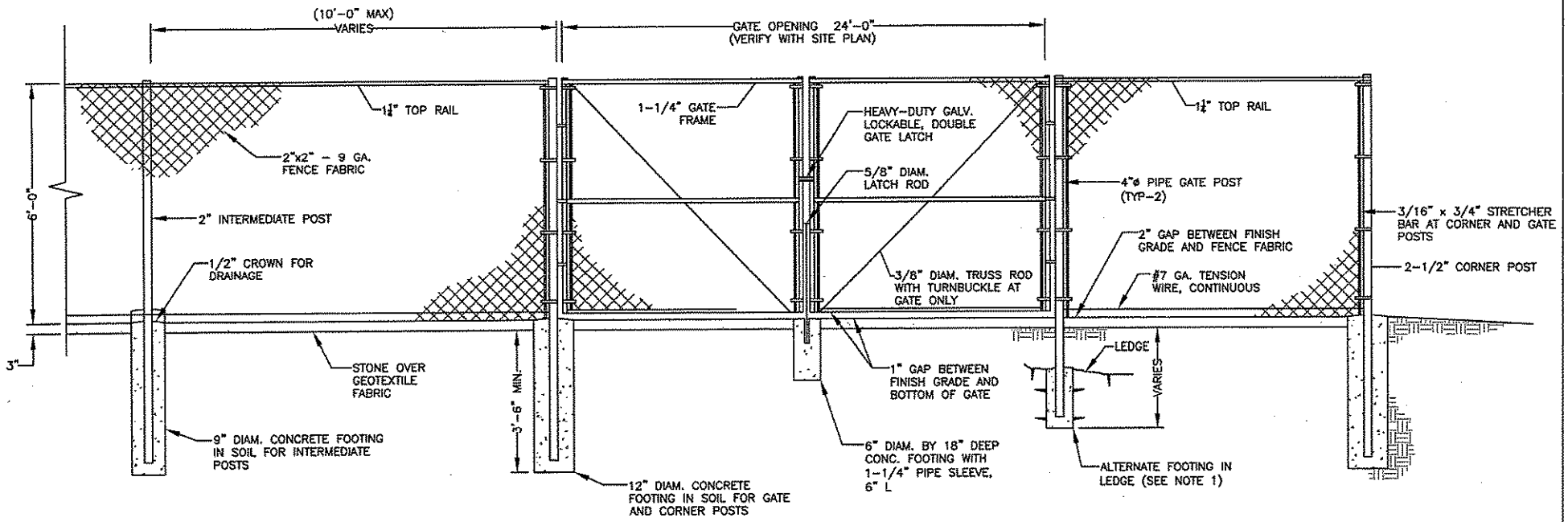
Add: Drawing
SKS-1: Section and Roof Plan of Swede Survival Systems Phase 1
SKS-2: Elevation and specifications of Swede Survival Systems Phase 1

Item Description

Permit

Item 11: Demolition permit fee.

Information: No demolition application fee required.
Attachment: Demolition permit application (with sign-off)



TYPICAL ACCESS GATE DETAIL

SCALE: N.T.S.

3

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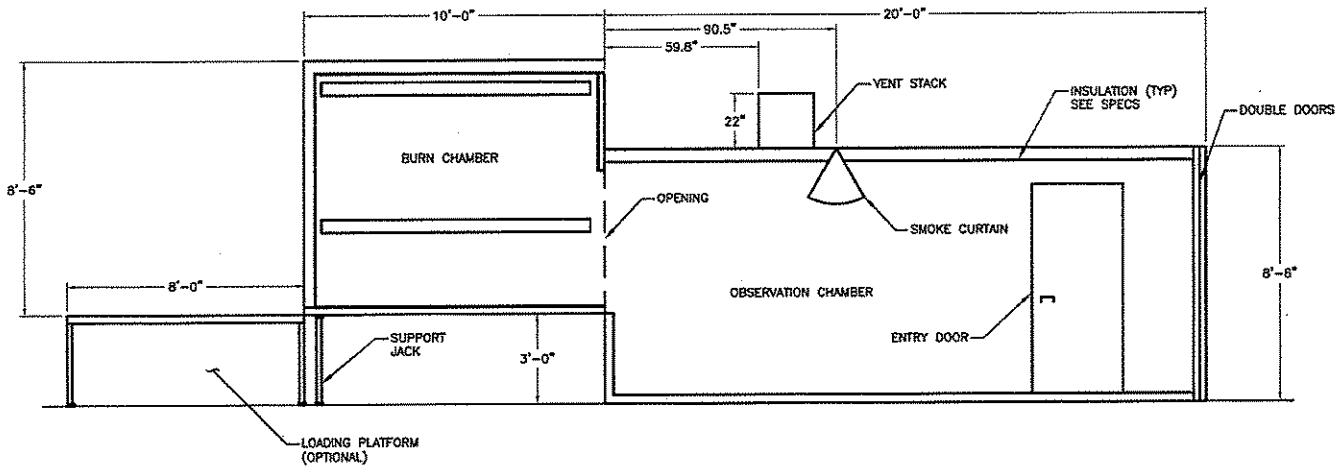
STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS

ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY
230 Ella T. Grasso Boulevard, New Haven, CT

Project No:	Date:	ADDENDUM No.1
BI-FP-008A	05/19/09	SKC-1
Scale: 1" = 30'	Drawn by: JNV	CIVIL

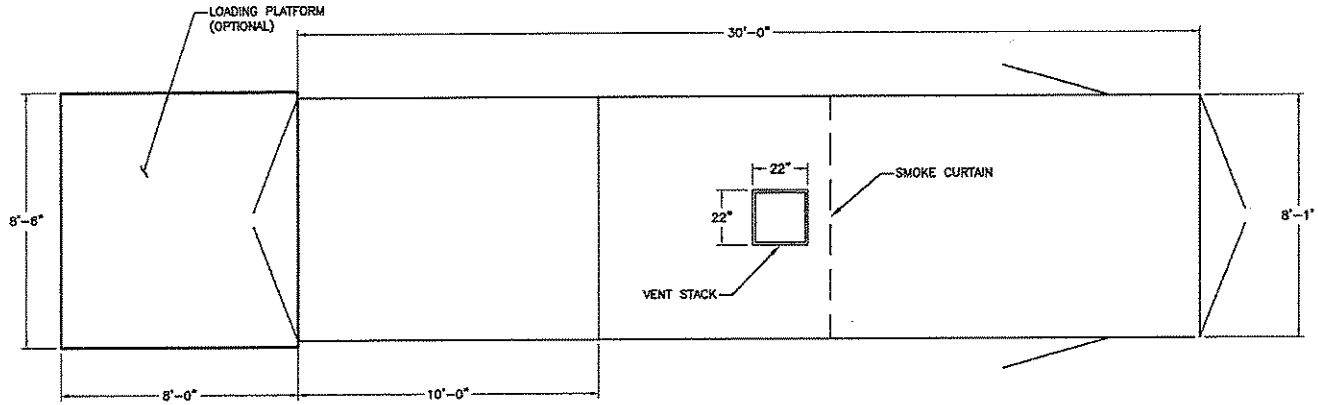
ADDENDUM NUMBER 1



SECTION: SWEDE SURVIVAL SYSTEMS PHASE 1 (1)

SCALE: 1/4"=1'-0"

0' 2' 4' 8'



ROOF PLAN (2)

SCALE: 1/4"=1'-0"

0' 2' 4' 8'

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STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS

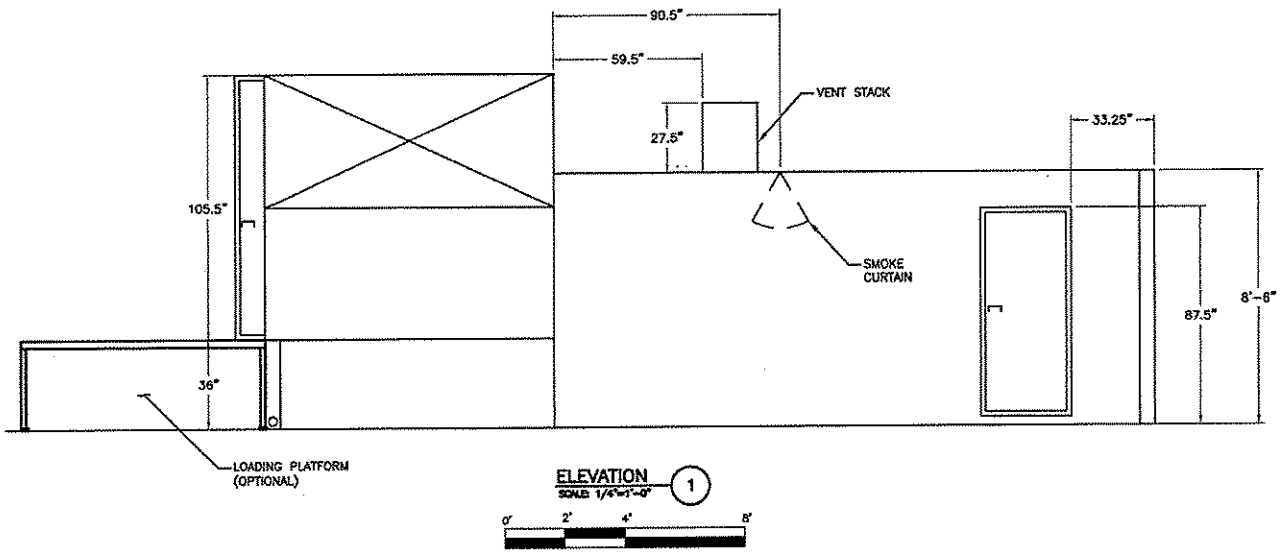
ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY

230 Ella T. Grasso Boulevard, New Haven, CT

PAGE 7 OF LAST

Project No.:	Date:	ADDENDUM No.1
BI-FP-008A	05/19/09	SKS-1
Scale: 1" = 30'	Drawn by: JNV	STRUCTURAL

ADDENDUM NUMBER 1



ELEVATION 1
SCALE 1/4"=1'-0"

0' 2' 4' 8'

GENERAL NOTES:

THE FLASHOVER TRAINING SYSTEM SHALL CONSIST OF TWO IMPORTANT ITEMS. THE FIRST ITEM IS THE TWO CONTAINER TRAINING ENCLOSURE. THE SECOND, AND EQUALLY IMPORTANT ITEM, IS THE TRAINING CURRICULUM. THE COMBINATION OF THE UNIQUE CONSTRUCTION OF THE ENCLOSURE AND THE TRAINING CURRICULUM SHALL PROVIDE INVALUABLE TRAINING TO FIREFIGHTERS. THE FLASHOVER TRAINING SYSTEM SHALL PROVIDE FIREFIGHTERS WITH AN OPPORTUNITY TO GAIN TREMENDOUS INSIGHT INTO THE WANING SIGNS THAT INDICATE THE EMINENT THREAT OF THE FIRE CONDITION COMMONLY REFERRED TO AS FLASHOVER.

SYSTEM SPECIFICATIONS:

- PARTEK HIGH PERFORMANCE INSULATION
- 14 GAUGE STEEL EXTERIOR WITH 8 GAUGE SHEET METAL COVERING INSULATION
- 5/8" CHAIN ON WALLS, CEILING, AND DOORS OF BURN AREA
- VENTILATION SYSTEM
- CONCRETE PAVING TO LINE FLOOR OF BURN AREA
- CRIB FIRE DRUM
- SIDE ENTRY DOORS WITHOUT LOCKS
- ACCESS FOR HOSE LINE
- JACKS FOR ADDITIONAL SUPPORT OF BURN CONTAINER
- PAINT–ROYAL BLUE STANDARD

DESIGN CRITERIA:

THE TRAINING ENCLOSURE SHALL BE MADE UP FOR TWO COMPARTMENTS. THE UPPER COMPARTMENT IS CALLED THE BURN CHAMBER AND THE LOWER COMPARTMENT IS CALLED THE OBSERVATION CHAMBER. BOTH CHAMBERS SHALL BE FABRICATED FROM STANDARD HEIGHT LAND/SEA SHIPPING CONTAINERS. THESE CONTAINERS MAY BE USED, BUT SHALL NOT BE OLDER THAN FIVE (5) YEARS FROM THE DATE OF ORIGINAL MANUFACTURE.

BURN CHAMBER
THE BURN CHAMBER SHALL MEET THE FOLLOWING CRITERIA:
1. THE BURN CHAMBER SHALL BE TEN (10) FEET LONG AND EIGHT (8) FEET WIDE).
2. THE ENTIRE INTERIOR SURFACE OF THE CONTAINER'S WALLS AND CEILING SHALL BE LINED WITH INSULATION MATERIALS CAPABLE OF WITHSTANDING THE REPEATED HIGH TEMPERATURE EVOLUTIONS PRESENT INSIDE OF THE CHAMBER.
3. THE TWO CORNERS OF THE BURN CHAMBER FARTHEST FROM THE OBSERVATION CHAMBER SHALL BE REINFORCED WITH EXTRA INSULATION AND PROTECTION AS THIS IS WHERE THE CLASS A MATERIALS CRIB WILL BE SITUATED ON ALTERNATE TRAINING EVOLUTIONS.
4. THE FLOOR OF THE CONTAINER SHALL HAVE ALL COMBUSTIBLE MATERIALS REMOVED AND REPLACED WITH A MINIMUM EIGHT (8) GAUGE STEEL PLATE SURFACE AND COVERED WITH CONCRETE PAVERS.
5. THE BURN CHAMBER FLOOR SHALL ELEVATED THREE FEET ABOVE THE OBSERVATION CHAMBER FLOOR.
6. ONE END OF THE BURN CHAMBER SHALL OPEN TO ALLOW THE FIREFIGHTERS IN THE OBSERVATION CHAMBER TO OBSERVE THE FIRE BEHAVIOR, WHILE REMAINING BELOW THE INTENSE HEAR GENERATED BY THE FLASHOVER EFFECT IN THE BURN CHAMBER.
7. THE OPPOSITE END OF THE CONTAINER SHALL REMAIN EQUIPPED WITH THE STANDARD DOUBLE DOORS OF LAND/SEA SHIPPING CONTAINER. THESE DOORS HOWEVER WILL BE INSULATED AND HAVE A METHOD FOR SECURING CLASS A SHEET MATERIAL FOR THE TRAINING EVOLUTIONS.
8. A METHOD OF SECURING CLASS A SHEET MATERIAL TO THE WALLS AND CEILING OF THE CONTAINER SHALL BE PROVIDED.
9. A SET OF TWO SUPPORT LEGS UNDERNEATH THE BURN CHAMBER SHALL BE PROVIDED. THESE LEGS SHALL BE ADJUSTABLE TO ACCOMMODATE SITE CONDITIONS.

OBSERVATION CHAMBER
THE OBSERVATION CHAMBER SHALL MEET THE FOLLOWING CRITERIA:
1. THE OBSERVATION CHAMBER SHALL BE TWENTY (20) FEET LONG AND EIGHT (8) FEET WIDE.
2. THE FORWARD PORTION OF THE OBSERVATION CHAMBER WALLS AND THE CEILING SHALL BE LINED WITH THE SAME INSULATION METHOD AS THE BURN CHAMBER. THIS INSULATION SHALL RUN AT LEAST SEVEN FEET IN LENGTH AND COVER THE WALLS AT LEAST FOUR FEET DOWN FROM THE CEILING.
3. A VENTILATION STACK SHALL BE PROVIDED IN THE ROOF OF THE OBSERVATION CHAMBER AND BE CONFIGURED AS TO ALLOW ONE OF THE INSTRUCTORS AT THE REAR OF THE CHAMBER TO OPERATE BOTH ONE OF THE TWO DOORS AND VENTILATION STACK OPENING SIMULTANEOUSLY.
4. THE FLOOR OF THE CONTAINER SHALL HAVE ALL COMBUSTIBLE MATERIALS REMOVED AND REPLACED WITH A MINIMUM EIGHT (8) GAUGE STEEL PLATE SURFACE AND BE COVERED WITH CONCRETE PAVERS.
5. THE OBSERVATION CHAMBER SHALL HAVE TWO (2) THREE (3) FOOT BY SEVEN (7) FOOT OUTWARD OPENING DOORS LOCATED NEAR THE REAR OF THE CHAMBER. THESE DOORS SHALL OPEN FREELY WITHOUT ANY LATCHING MECHANICS AND BE CONFIGURED TO RETURN TO THE CLOSED POSITION AUTOMATICALLY.
6. THE REAR WALL OF THE OBSERVATION CONTAINER SHALL BE THE ORIGINAL DOUBLE DOORS OF THE LAND/SEA CONTAINER. A CUTOUT LARGE ENOUGH TO ACCOMMODATE TWO 1½ INCH CHARGED HOSE LINES SHALL BE CUT IN ONE OF THE DOORS.

OTHER EQUIPMENT
THE SUPPLIER SHALL PROVIDE THE ADDITIONAL EQUIPMENT LISTED BELOW:

1. TWO (2) CLASS A MATERIAL CRIBS OF THE CORRECT VOLUME AND SHAPE TO MEET WITH THE SUPPLIERS STANDARD OPERATING PROCEDURES FOR PROPER LOADING OF THE SYSTEM FOR :SAFE AND EFFECTIVE TRAINING.
2. ONE (1) EIGHT (8) FOOT LONG BY EIGHT AND ONE–HALF (8 ½) FOOT WIDE PLATFORM LOCATED BEHIND THE BURN CHAMBER TO ACCOMMODATE LOADING AND CLEAN OUT OF THE BURN CHAMBER BETWEEN TRAINING EVOLUTIONS. THE LEGS OF THE PLATFORM SHALL BE ADJUSTABLE IN HEIGHT FROM 2' 6" TO 3' 6" IN ONE INCH INCREMENTS TO ALLOW FOR ADJUSTMENT TO SITE CONDITIONS. THE DECK OF THE PLATFORM SHALL BE SUFFICIENTLY REINFORCED AS TO ACCOMMODATE THE LIVE LOAD OF UP TO FOUR FIREFIGHTERS IN FULL PPE DURING LOADING AND CLEANUP OPERATIONS.

SITE SET–UP OF THE SYSTEM
THE FLASHOVER TRAINING SYSTEM SHALL BE DESIGNED SO AS TO BE SET–UP ONSITE BY THE CUSTOMER'S REPRESENTATIVES IN LESS THAN ONE HOUR BY A CRANE OR FORKLIFT OPERATOR AND TWO ASSISTANTS. THE SUPPLIER WILL PROVIDE THE CUSTOMER WITH A DESCRIPTION OF THE SITE REQUIREMENTS FOR THE SYSTEM AS A PART OF THEIR PROPOSAL PACKAGE. THE SYSTEM SHALL BE ABLE TO BE LIFTED INTO PLACE WITH A 10,000 LB CRANE OR FORKLIFT. IF ANY SPECIAL FOOTINGS OR FOUNDATIONS ARE REQUIRED TO ACCOMMODATE THE SYSTEM, THE SUPPLIER WILL PROVIDE THIS INFORMATION AS PART OF THEIR PROPOSAL.

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STATE OF CONNECTICUT DEPARTMENT OF PUBLIC WORKS

ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY
230 Ella T. Grasso Boulevard, New Haven, CT

Project No:	Date:	ADDENDUM No.1
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Scale: 1" = 30'	Drawn by: JNV	STRUCTURAL

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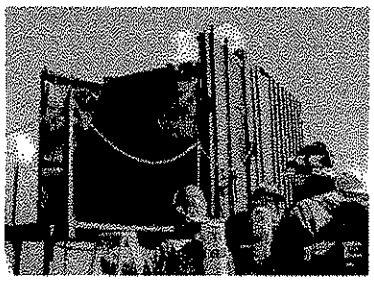
ADDENDUM NUMBER 1

Swede Survival Systems

The Phase 1 System is essentially a laboratory, where fire behavior can be observed three feet below the fire floor. Instructors can demonstrate basic fire behavior using class A combustibles (particle board). The fire is not influenced by artificial or individual factors. This is the most cost effective and realistic training available. This container is an excellent defensive training system that will provide firefighters hand on training in a safe setting.



KEY POINTS IN A TRAINING EVOLUTION INCLUDE:

- Incipient phase of fire
- Fire growth
- Smoke production
- High pressure, low pressure zones
- Thermal feedback
- Roll over
- Flashover

The students are shown, and can practice under fire conditions, nozzle techniques that they can use in any interior fire setting.
There can be multiple evolutions before the fuel load is depleted.

The Mobile Phase 1 System is trailer mounted and is then eligible for the FEMA grant program.

SYSTEM SPECIFICATIONS:

- Partek high performance insulation
- 14 gauge steel exterior with 8 gauge sheet metal covering insulation
- 5/8" chain on walls, ceiling, and doors of burn area
- Ventilation System
- Concrete paving and sand to line floor of burn area
- Crib fire drum
- Side entry doors without locks
- Access for Hose Line
- Jacks for additional support of Burn Container
- Paint- red oxide primer

THE SYSTEM INCLUDES:

- Fogfighter Nozzle
- 2-day training course for up to 12 students
- Instructor Manuals
- Certification upon completion

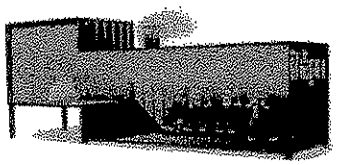
TRAINING COURSE INCLUDES:

- Ignition Sources
- Fire behavior
- Formation of fire gases
- Fire control
- Container operations
- Hydration
- Heat stress
- SCBA & Safety Equip. training
- Heat stress management
- Recognition of pre-flashover conditions
- Smoke and ventilation exercises
- Nozzle techniques
- Container Management
- Safety

Dräger safety

Live Fire training simulators: this is not a question of playing with fire, but the provision of safe, realistic and reliable training for emergencies.

BECAUSE IT IS YOUR JOB TO FIGHT FIRES, WE SEE IT AS OUR JOB TO GIVE YOU THE BEST POSSIBLE PREPARATION FOR THIS POTENTIALLY HAZARDOUS-WORK. AS THE LEADING MANUFACTURER OF LIVE FIRE TRAINING SIMULATORS, OUR RANGE INCLUDES NOT ONLY MOBILE TRAINING CONTAINERS, BUT ALSO FIRE HOUSES AND AIRCRAFT FIRE SIMULATORS.



Dräger "Fire Dragon" fire training galleries: Among other things, these galleries teach participants how to recognize and tackle different types of fire scenario and flash-over situations under controlled and safe conditions.

There is no going back in an emergency, so it is a good thing if you have already experienced the situation before and are better able to assess the risks. Training in our fire training galleries prepares you and your crews for real-life situations – giving you hands-on experience courtesy of Dräger Safety.

As the world's only provider of both carbonaceous and gas fuelled simulators, we are able to supply training simulators that have been designed and optimized in close cooperation with fire brigades all over the world.
They are used for realistic training of fire-fighters, helping them assess the potential hazards posed by different types of fire, and tackle the fire following the most stringent safety procedures.

From the control room of a gas fuelled training gallery, all kinds of different fire scenarios can be individually controlled and in an emergency shutdown and extinguished immediately. The additional option of selecting the fire scenario type allows both industrial and domestic fires to be simulated.

Flashover container:
Making sure that emergencies do not spiral out of control.
The flashover container allows participants to observe the controlled and realistic development of a flashover situation, whilst at the same time being able to assess how their own personal protective equipment reacts. The training containers are available in either fixed or mobile format.

Take advantage of the best possible training without the need for long journey times, and have your crews trained directly on site.

solution:
Upon request, Dräger Safety can provide tailor-made financing models to give you ease of budgeting with fixed monthly payments.

ADDENDUM NUMBER 1 PAGE 10 OF 185

ATTACHMENT "A"

GEOTECHNICAL REPORT

Foundation Report

Connecticut Department of Public Works

Additions to the New Haven Regional Fire Academy
230 Ella Grasso Boulevard
New Haven, Connecticut

September 2008

Prepared by:
Dewberry-Goodkind, Inc.
200 Broadacres Drive
4th Floor
Bloomfield, NJ 07003

Dewberry

ADDENDUM NUMBER 1

PAGE 12 OF 104

Foundation Report

Connecticut Department of Public Works

Additions to the New Haven Regional Fire Academy
230 Ella Grasso Boulevard
New Haven, Connecticut

September 2008

Prepared by:
Dewberry-Goodkind, Inc.
200 Broadacres Drive
4th Floor
Bloomfield, New Jersey

9-24-08

Eugene J. Schwarzrock, P.E. Date
Connecticut License No. PEN.0022516

FOUNDATION REPORT

CONNECTICUT DEPARTMENT OF PUBLIC WORKS

ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY
230 ELLA GRASSO BOULEVARD
NEW HAVEN, CONNECTICUT

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- Modular Block Retaining Wall 6

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- Boring Location Plans
- Dewberry Boring Logs
- Cahn Engineers Boring Logs

INTRODUCTION

This project consists of the construction of a new, two-story steel framed Training Support Building, along with a separate building addition at the Burn Building at the New Haven Regional Fire Academy, in New Haven, Connecticut. The new Training Support Building will have a footprint area of approximately 5,600 sf and a height of 20 ft. and will be constructed in a grass area located southwest of the intersection of Ella Grasso Boulevard and Thomas Kelly Drive. This building will contain classrooms, workshops, storage, garage bays and offices on the ground floor, and additional garage and office space contained on an upper mezzanine level. The proposed Burn Building Addition will expand the existing building by approximately 175 sf by extending this building 6± ft. to the east.

A 3 ft. tall modular block retaining wall will also be constructed as part of this project on the north side of the proposed building. The proposed wall will be approximately 45 ft. long and is required for grade separation.

The site of the proposed Training Support Building is located in a grass area that slopes gently down to the south. The site is bounded by Ella Grasso Boulevard to the north, Thomas Kelly Drive to the east and south, and a fenced parking lot to the west. The proposed building will be rectangular, with the long sides facing approximately northeast and southwest. For the purpose of this report, the long sides will be identified as being oriented north and south. Ground elevation ranges from 11 to 14 ft. across the proposed building footprint.

The site of the proposed Burn Building Addition is located in a flat, paved area of the site, approximately 350 ft. south-southeast of the proposed new building. The site is bounded by site roadways. The proposed building addition will be approximately 6 ft. long by 29 ft. wide (full width of the existing building), with the long sides facing approximately northwest and southeast. For the purpose of this report, the long sides will be identified as being oriented west and east. Ground elevation in the area of the proposed addition is El. 11.5.

This report presents the findings of a subsurface investigation undertaken for the project, along with recommendations for design and construction.

SUBSURFACE INVESTIGATION

A subsurface investigation was performed at the project site in order to determine the in situ soil types and establish design parameters for the proposed building. Soiltesting, Inc. of Oxford, CT. was contracted by Dewberry to drill three (3) borings, labeled B-1, B-2 and B-3, at the project site on May 29 and 30, 2008. The borings were located along the perimeter of the proposed structure, with Boring B-1 drilled near the center of the north building line, and Borings B-2 and B-3 drilled at opposite corners of the south building line.

The borings were advanced to a depth of 15 ft. using a hollow stem auger. A roller bit and drilling mud were utilized to advance the hole from 15 ft. to the bottom of the boring. Soil sampling was performed using a 2 in. O.D. split spoon sampler driven by a 140 lb. donut or safety hammer with a 30 in. drop, in accordance with provisions of ASTM D 1586. Soil sampling was performed at 5 ft. intervals from the ground surface to the bottom of each boring - 101.5 ft (El.-87.5) in Boring B-1, and 81.5 ft (El.-67.5) in Borings B-2 and B-3. The borings were inspected by an experienced geotechnical engineer and all samples were classified using the Burmister field classification system. These borings are indicated on the Site Plan – Northern Section, Sht. C-2 in the Appendix.

A subsurface investigation was also performed at the project site in the winter of 1978 by Cahn Engineers, Inc. of Wallingford, CT, and those logs were provided to Dewberry for review. Connecticut Test Borings, Inc. performed fifteen (15) soil borings, labeled FT-1 through FT-15, with borings FT-2 and FT-4 drilled closest to the proposed new building approximately 120 ft. southwest of the building. Both these borings were advanced using "hydraulic rotary" (roller bit and drilling fluid) drilling methods to depths of 45 ft., and were sampled generally at 5 ft. intervals using a 2 in. diameter split spoon sampler. Boring FT-4 was also sampled continuously between the depths of 9 and 19.5 ft. Boring FT-11 was drilled near the proposed Burn Building

Addition. This boring was drilled to a depth of 55 ft., and was generally sampled at 5 ft. intervals. These borings are indicated on the Site Plan – Southern Section, Sht. C-4 in the Appendix.

SUBSURFACE CONDITIONS

At the new Training Support Building, the subsurface conditions encountered in the three 2008 borings are generally very similar. Granular fill, which consists of brown, coarse to fine sand with some gravel and bricks, is present to a depth of 4 ft. Beneath the fill, a 14 ft. thick layer of loose to medium dense, brown coarse to fine sand with little silt is present. This layer extends to approximately El. -4 and uncorrected standard penetration test (SPT) N-values ranged from 3 to 15. Below El. -4 the soil consists of predominantly medium dense, red-brown sand with N-values ranging from 9 to 35 to El. -39 (35 ft. thick). Beneath El. -39 to the bottom of each boring, mostly dense, red-brown fine sand with N-values ranging from 23 to 64 is present.

A 20 ft. deep, temporary groundwater observation well was installed (and subsequently removed) in an independent hole drilled with a hollow stem auger adjacent to Boring B-2. Groundwater was observed at a depth of 8.5 ft. (El. +2.5) on May 30, 2008, one day after completion of the well installation.

Historic borings FT-2 and FT-4 indicate a 3 to 9 ft. thick layer of black organic sand, silt and peat is present between the depths of 7.5 and 10.5 ft. (El. 5.5 to El. 1.0). This organic layer was not found in the three borings drilled in 2008. Beneath the organic soil, subsurface conditions similar to the 2008 borings are reported.

At the Burn Building Addition, boring FT-11 encountered black, loose fill containing sand, wood, coal and ash, from the previously-existing ground surface to a depth of 13.5 ft. (El. 3.5±). Uncorrected SPT N-values in this material reportedly ranged from 5 to 8. This material was underlain by black, very soft organic clay, with seams and small layers of medium to fine sand and silt, and uncorrected SPT N-values generally less than 5. Beneath this organic layer,

generally red-brown, medium dense fine sand with silt was present to the bottom of the boring. SPT N-values ranged from 12 to 18.

Groundwater was reported at a depth of 3.6 ft. (El. 6.5), and high tide was also noted on the boring log. Artesian water conditions were reported beginning at 44 ft.

DESIGN RECOMMENDATIONS

Based on the findings of the subsurface investigation programs and the results of geotechnical analyses, we recommend the following design criteria and foundation type for support of the new structure:

Training Support Building

We understand column loads will vary from 150 kips along the perimeter wall to 225 kips at the garage bay interior, to 325 kips at the mezzanine pile caps. A preliminary design was performed in 2007 based on the data from the 1978 borings which included the possibility of organic soil being present beneath the proposed building footprint. As a result of that preliminary analysis, 40 ton steel H-piles were determined to be an economical foundation type selection for the new building. The recent borings drilled within the proposed footprint did not however, reveal soft, organic deposits making a spread footing foundation economically feasible. The in situ soils are loose to medium dense sands with little silt and a relatively shallow depth to water. Liquefaction potential analysis performed using the recent borings indicates the underlying soils have factors of safety against liquefaction varying from 1.56 to 2.22 as a result of a magnitude 6.0 seismic event. As a result of this analysis, spread footings and a first floor slab on grade are recommended for support of the proposed building.

All footings should be founded at or below the bottom of the fill material (El. 7), which will also provide protection against frost penetration. The footings may be designed using a maximum allowable bearing capacity of 2.5 tsf with a minimum width of 24 in. for wall footings and 3 ft. for column footings. To eliminate the possibility of inconsistent slab support and settlement, it is

recommended that 24 in. of material be removed from beneath the bottom of slab elevation, the subgrade (fill) be fully compacted, and structural fill be placed and compacted back up to the bottom of the capillary break material. A modulus of subgrade reaction of 200 lb/in.^{3} is recommended for design of the first floor slabs constructed as recommended above.

As an alternate, the fill (4 ft., to approximately El. 7) material may be excavated and replaced with compacted structural fill to the bottom of the proposed slab on grade (El. 13+). The wall and column footings should bear at a maximum elevation of 10 with the finished floor and an exterior finished grade elevation of 14.

Settlement of the underlying granular soil will be elastic and complete at the end of construction. It is estimated that ¾ in. of settlement will occur at any one footing, with a maximum of ½ in. of differential settlement possible. Long term settlement is not anticipated.

A seismic site class of D is recommended for design of the proposed building, based on an average N-value within the top 100 ft. of soil of 25.

Based on the soil conditions encountered during the subsurface investigation, the following soil properties are recommended for design:

<u>Fill (0 to 4 ft.)</u>

Moist unit weight of soil,	γ_t = 115 pcf
Angle of internal friction,	ϕ = 30°
Lateral earth pressure coefficients:	K_a = 0.33
	K_p = 3.0

<u>Brown c-f Sand (4 to 18 ft.)</u>

Moist unit weight of soil,	γ_t = 120 pcf
Buoyant unit weight of soil,	γ_b = 60 pcf
Angle of internal friction,	ϕ = 30°
Lateral earth pressure coefficients:	K_a = 0.33
	K_p = 3.0
Friction coefficient:	$\tan \delta$ = 0.45 (base sliding of CIP footing)

Red-brown Sand (18 to 53 ft.)

Buoyant unit weight of soil,	γ_b = 63 pcf
Angle of internal friction,	ϕ = 31°

Burn Building Addition

Due on the presence of relatively deep deposits of very loose fill and soft organic soils, and the location of groundwater above the bottom of these materials, a deep foundation is recommended for support of the proposed building addition. HP12x53 H-piles driven to a depth of 58± ft. (El. -48) below the presumptive pile cap elevation will achieve the required 30 t allowable axial capacity and are recommended for construction for their relative low cost, ease and speed of installation, and ease of inspection as compared with other pile types of suitable capacity. Total and differential settlements of such piles will be within typical construction tolerances, i.e., less than 1 in. Long term settlement is not anticipated.

A seismic site class of E is recommended for design of the proposed building addition, based on the presence of >10 ft. of soft clay.

Modular Block Retaining Wall

The wall will be a cut wall, approximately 3 ft. in height, used to support the slope above a proposed bituminous driveway. Based on the site topography and information obtained from the subsurface investigations, it is recommended that the wall may be founded on/in the granular fill after first removing 24 in. of fill and replacing it with compacted controlled fill up to the leveling pad. An allowable bearing capacity of 1.5 tsf is recommended for design of this wall, however sliding or overturning will likely govern the design. The soil properties for the foundation soil and backfill soil are as described above. The following design criteria are recommended:

Coefficient of sliding (base),	tan δ = 0.40 (precast concrete on sand)
Required Factors of Safety,	Bearing = 3.0
	Sliding = 1.5
	Overturning = 2.0

A minimum width of 12 in. of ¾ in. clean crushed stone should be placed vertically immediately behind the wall to help prevent the buildup of hydrostatic pressures on the wall. At the bottom

of this drainage material, a minimum 4 in. diameter, horizontal drain pipe should be installed along the rear of the wall to collect and direct the excess water away from the wall.

It is recommended that the passive lateral earth coefficient, K_p, acting at the front of the walls be ignored for design purposes.

CONSTRUCTION RECOMMENDATIONS

Footings, retaining walls and other structural items at the new Training Support Building should be constructed on undisturbed, in situ soil. These structural foundation elements in addition to pile caps and grade beams at the Burn Building also should not be constructed on frozen or wet subgrade materials. Any frozen subgrade soil should be removed and replaced with compacted structural fill, or clean, ¾ in. crushed stone. Standing water should be removed or allowed to dry prior to placing new fill on it or constructing the pile caps or retaining wall.

Well graded, coarse to fine sand which has a maximum 15% non-plastic fines and is free of organics and other deleterious materials is recommended for use as structural fill beneath the slab on grade, along walls, etc. It is believed that the majority of the in situ soils will be suitable for use as structural fill, however, testing of all selected soils is recommended prior to use.

Structural fill material should be placed in maximum 12 in. loose lifts and compacted to 95% of its maximum dry density at optimum moisture content as determined by the Modified Proctor Density Test (ASTM D 1557). General site fill beyond the limits of the building should also be placed in maximum 12 in. loose lifts and be compacted to 92% of the Modified Proctor test values. The placement of fill shall be observed and tested by either the Sand Cone Method (ASTM D 1556) or Nuclear Density Gauge Method (ASTM D 2922 and D 3012). These tests should be performed at sufficient frequency and spacing to ensure proper compaction, with the following criteria suggested as guidelines:

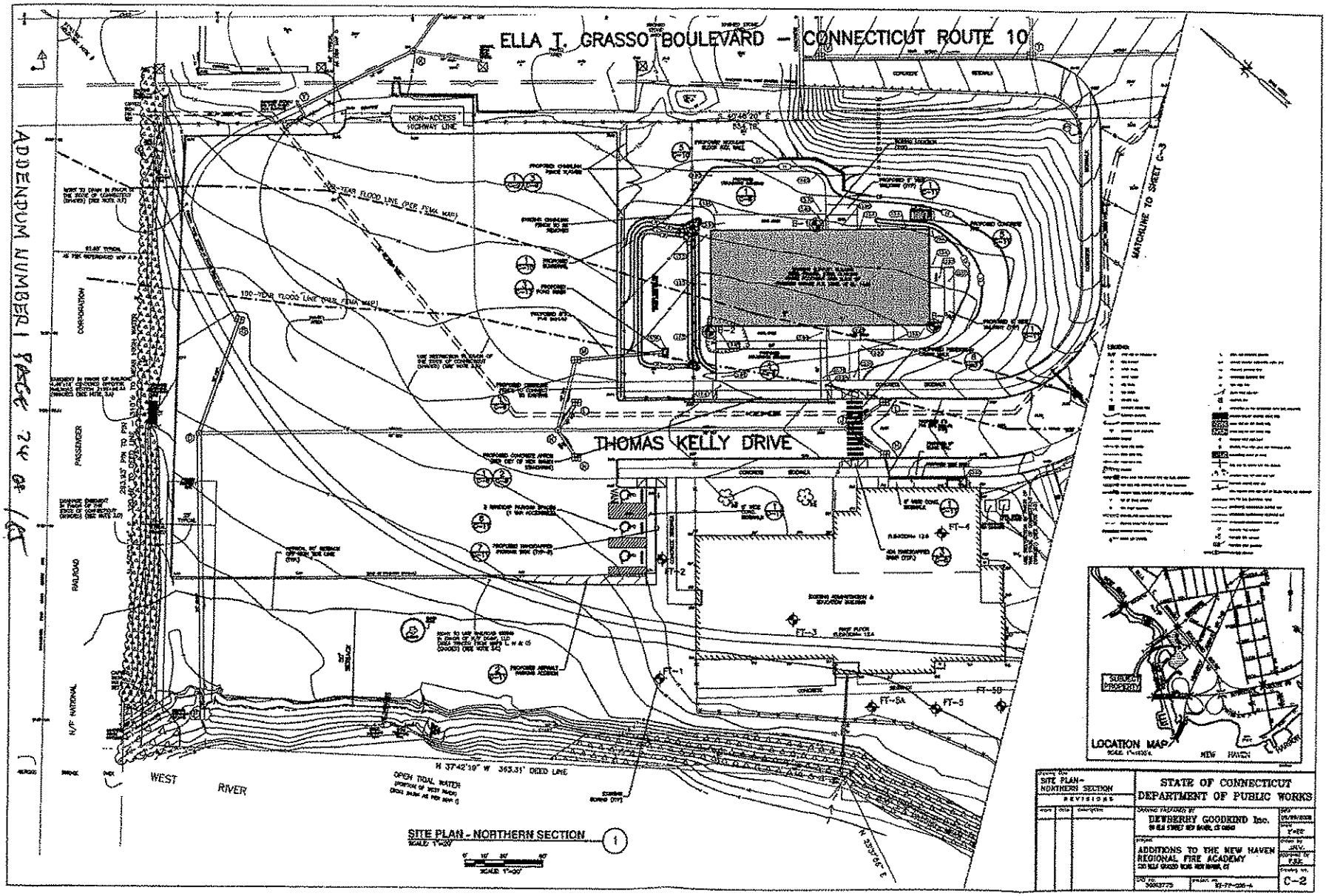
Location	Frequency of Testing
general site fill (beyond building limits)	1 test every 5,000 SF per lift min. 1 test per lift
building pad fill adjacent to structures beneath slabs-on-grade	1 test every 2,500 SF per lift min. 3 tests per day
utility trenches	1 test every 100 LF per lift min. 3 tests per day

The pile contractor should retain an engineer licensed in the State of Connecticut to perform a wave equation analysis to model the specific pile driving equipment and set-up proposed for use in installing the piles. The analysis should be signed and sealed by the contractor's engineer and be submitted for review and approval prior to the start of driving operations.

Pile driving operations should be designed to minimize the disturbance to nearby structures and utilities. It is recommended that a pre-construction inspection of existing structures be performed. This should include the documentation of the condition of the existing structures using photographs and/or videotape.

Qualified, full-time inspection should be employed during all foundation and retaining wall construction work.

APPENDIX



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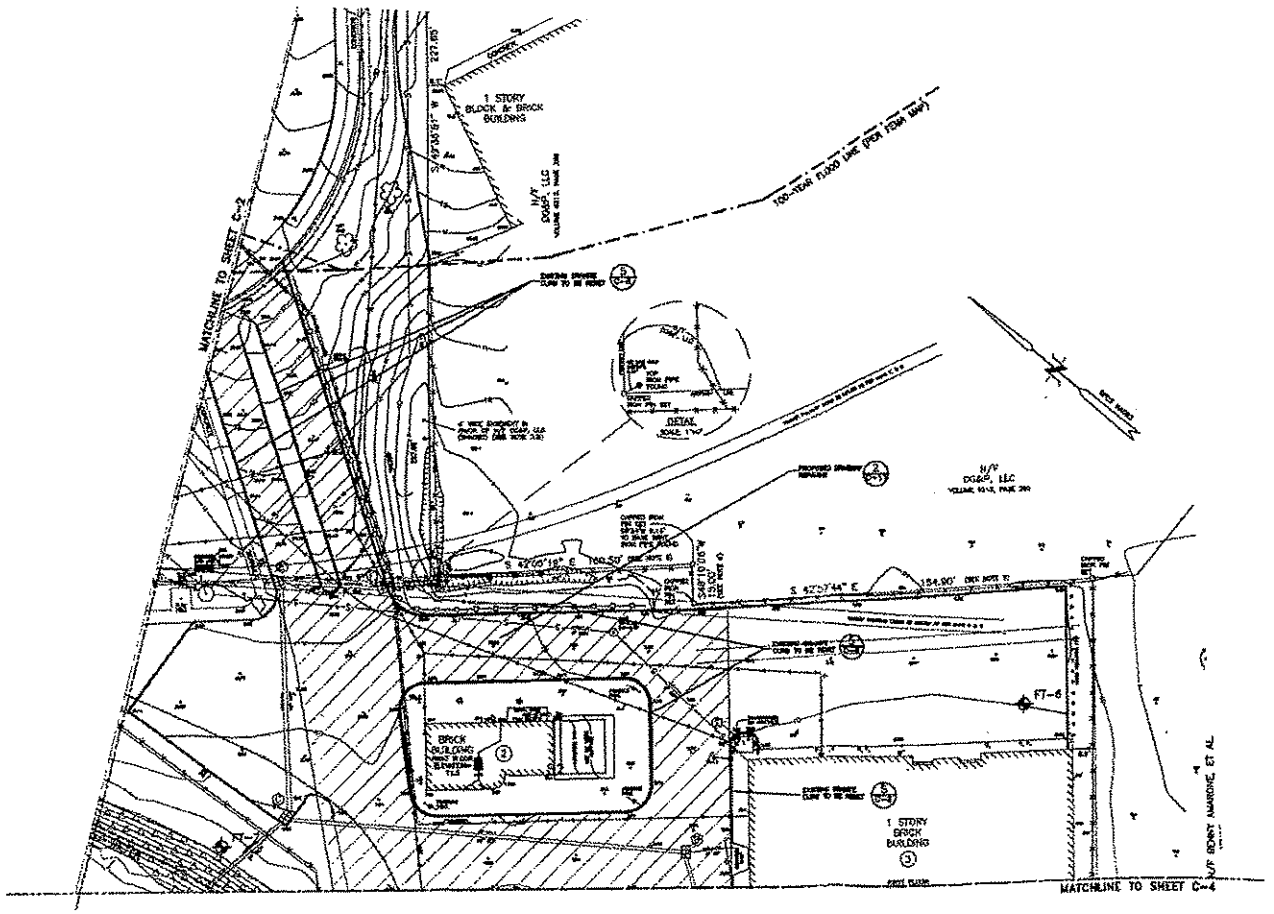
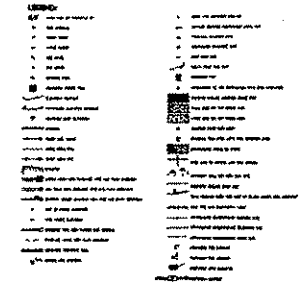


SITE PLAN - CENTRAL SECTION (1)
SCALE: 1"=20'



SITE PLAN - CENTRAL SECTION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

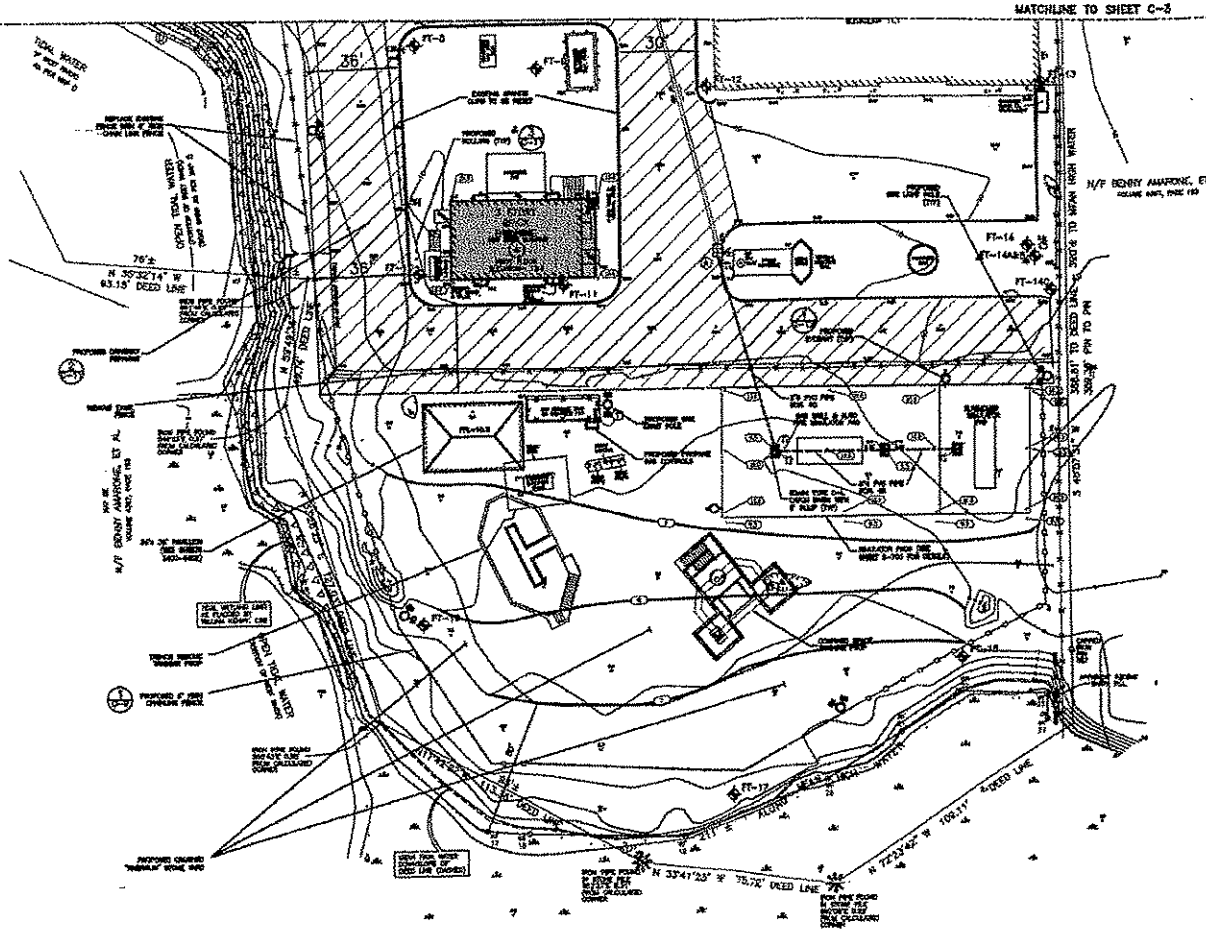
DEWBERRY GOODKIND Inc.

ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY

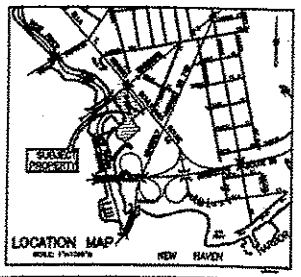
C-3

ADDENDUM NUMBER 1

PAGE 26 OF 18



SITE PLAN - SOUTHERN SECTION (1)



SITE PLAN - SOUTHERN SECTION

REVISIONS

NO.	BY	DESCRIPTION

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

DEWBERRY GOODKIND Inc.

ADDITIONS TO THE NEW HAVEN REGIONAL FIRE ACADEMY

C-4

Dewberry Boring Logs

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-1

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 14±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-29-2008

GROUND WATER ELEVATION
0 Hr. 2 Date: 5-29-2008
24 Hr. Date:

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-30-2008

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	AUGER	S-1	0	2	6	17		17"	FILL: Brown-white c-f SAND, some c-f Gravel, little Silt; brick, concrete	
	⇩				35	40				
										4
5										
		S-2	5	7	4	6		16"	Brown c(-)-f SAND, trace(+) Silt, trace(-) f Gravel	
					8	10				
10										
		S-3	10	12	5	4		18"	Brown c-f SAND, trace Silt	
					5	7				
15										
	MUD	S-4	15	17	2	1		8"	Brown m-f SAND, trace Silt	
	⇩				2	3				
20										
		S-5	20	22	4	5		14"	Red-brown c(-)-f SAND, trace Silt	
					6	6				
25										
		S-6	25	27	10	7		14"	SAME	
					7	8				
30										
		S-7	30	31.5	11	8	8	14"	Red-brown m(-)-f SAND, little(-) Silt	
35										
		S-8	35	36.5	7	7	10	13"	Red-brown f SAND, little(-) Silt	
40										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Donut
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata _____

Inferred Change in Strata ----------

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-1

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 14±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-29-2008

GROUND WATER ELEVATION
0 Hr. 2 Date: 5-29-2008
24 Hr. Date:

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-30-2008

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	MUD ⇩	S-9	40	41.5	10	10	8	15"	Red-brown c(-)-f SAND, trace(+) Silt, trace(-) m-f Gravel	
45		S-10	45	46.5	7	7	7	13"	SAME	
50		S-11	50	51.5	8	8	8	12"	SAME	
55		S-12	55	56.5	15	17	16	14"	Red-brown f SAND, trace Silt	
60		S-13	60	61.5	12	11	13	14"	Red-brown m(-)-f SAND, trace(+) Silt	
65		S-14	65	66.5	15	13	13	14"	Red-brown f SAND, little(-) Silt	
70		S-15	70	71.5	16	15	18	14"	Red-brown f SAND, little Silt	
75		S-16	75	76.5	17	16	19	14"	SAME	
80										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Donut
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

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Approximate Change in Strata ———

Inferred Change in Strata - - - - - -

ROUTE | LOCAL NAME: Additions to the New Haven Regional Fire Academy | BORING NO. B-1

SECTION: | 230 Ella Grasso Blvd., New Haven, CT | FIELD BORING NO.

STATION: | OFFSET: | REFERENCE LINE: | GROUND ELEVATION: 14±

BORING BY: Soiltesting, Inc. | DATE STARTED: 5-29-2008

INSPECTOR: D. Mulcahy | DATE COMPLETED: 5-30-2008

GROUND WATER ELEVATION
0 Hr. 2 Date: 5-29-2008
24 Hr. Date:

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	MUD	S-17	80	81.5	19	19	22	14"	Red-brown f SAND, little Silt	
	⇩									
85		S-18	85	86.5	12	12	14	14"	Red-brown f SAND, trace(+) Silt	
90		S-19	90	91.5	22	22	21	15"	SAME	
95		S-20	95	96.5	16	17	18	5"	Red-brown f SAND, little(-) Silt	
100		S-21	100	101.5	17	20	29	12"	Red-brown f SAND, little Silt	
105									Bottom of Hole 101.5 ft.	
110										
115										
120										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Donut
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

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Approximate Change in Strata ———————

Inferred Change in Strata - - - - - - - - - -

Addendum Number 1

Pages 31 thru 39 of 185 intentionally left blank.

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-2

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 11±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-29-2008

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-29-2008

GROUND WATER ELEVATION
0 Hr. -0.5 Date: 5-29-2008
24 Hr. 2.5 Date: 5-30-2008
20 ft. P.P. installed (5 ft. Screen) (Temporary)

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	AUGER	S-1	0	2	11	19		7"	FILL: Brown m-f SAND, some(-)c-m Gravel, trace(+) Silt; asphalt	
	⇩				31	9				
										4
5										
		S-2	5	7	5	6		3"	Brown m-f SAND, little c-m Gravel, little(-) Silt; coarse gravel in tip	
					5	6				
10										
		S-3	10	12	7	9		16"	Red-brown c(+)-f SAND, trace(-) Silt	
					6	4				
15										
	MUD	S-4	15	17	1	1		13"	Red-brown c-f SAND, trace Silt	
	⇩				2	3				
20										
		S-5	20	22	6	5		15"	Red-brown c-f SAND, trace m-f Gravel, trace Silt	
					6	6				
25										
		S-6	25	27	5	4		13"	Red-brown c-f SAND, trace(+) Silt	
					5	6				
30										
		S-7	30	31.5	5	6	7	12"	Red-brown c-f SAND, trace(+) Silt, trace(-) m-f Gravel	
35										
		S-8	35	36.5	15	15	12	15"	Red-brown c(-)-f(+) SAND, trace(+) Silt	
40										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ¾ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Donut
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata ————

Inferred Change in Strata - - - - - - -

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

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ADDENDUM NUMBER 1

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ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-2

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 11±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-29-2008

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-29-2008

GROUND WATER ELEVATION
0 Hr. -0.5 Date: 5-29-2008
24 Hr. 2.5 Date: 5-30-2008
20 ft. P.P. installed (5 ft. Screen) (Temporary)

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	MUD ⇓	S-9	40	41.5	13	14	13	16"	Red-brown m(-)-f SAND, little(-) Silt	
45		S-10	45	46.5	10	6	9	15"	Red-brown m-f SAND, little(-) Silt	
50		S-11	50	51.5	8	10	9	16"	Red-brown f SAND, little(-) Silt	
55		S-12	55	56.5	9	11	12	17"	Red-brown c(-)-f SAND, little(-) Silt	
60		S-13	60	61.5	14	14	14	16"	Red-brown m(-)-f SAND, little(-) Silt	
65		S-14	65	66.5	15	16	16	15"	SAME	
70		S-15	70	71.5	18	18	16	12"	Red-brown f SAND, little(-) Silt	
75		S-16	75	76.5	14	17	19	16"	SAME	
80										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ¾ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Donut
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata _____

Inferred Change in Strata ----------

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

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ADDENDUM NUMBER 1 PAGE 41 OF 185

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-2

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 11±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-29-2008

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-29-2008

GROUND WATER ELEVATION
0 Hr. -0.5 Date: 5-29-2008
24 Hr. 2.5 Date: 5-30-2008
20 ft. P.P. installed (5 ft. Screen) (Temporary)

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	MUD	S-16	80	81.5	22	21	24	13"	Red-brown f SAND, little(-) Silt	
	⇩									
									Bottom of Hole 81.5 ft.	
85										
90										
95										
100										
105										
110										
115										
120										

Note: Temporary well hole was drilled 20 ft. deep with a 4 in. auger adjacent to Boring B-2.
Well readings were obtained at the end of each day.
The well was removed 5-30-08 at the completion of drilling.

Well Makeup:
- 8 ft. Cuttings
- 3 ft. Hole plug
- 9 ft. Filter sand

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Donut
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata ———————

Inferred Change in Strata - - - - - - - - - -

ADDENDUM NUMBER 1

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-3

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 12.5±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-30-2008

GROUND WATER ELEVATION
0 Hr. 3.5 Date: 5-30-2008
24 Hr. Date:

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-30-2008

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0 / 6	6 / 12	12 / 18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	AUGER	S-1	0	2	13	13		10"	FILL: Brown m-f SAND, little(-) m-f Gravel, trace(+) Silt; brick,	
	⇓				22	22			concrete	
										4
5		S-2	5	7	5	6		9"	Brown-red m-f SAND, trace Silt	
					7	13				
10		S-3	10	12	3	4		15"	Black m-f SAND, trace Silt; strong petroleum hydrocarbon odor	
					7	7				
15		S-4	15	17	6	15		24"	Brown m-f SAND, trace Silt; slight petroleum hydrocarbon odor	
					15	14				
	MUD	S-5	20	22	13	30		12"	Red-brown c-f SAND, trace Silt; no odor	
	⇓				31	21				
25		S-6	25	27	5	5		9"	Red-brown c(-)-f SAND, trace Silt	
					9	9				
30		S-7	30	31.5	9	9	12	12"	Red-brown m-f SAND, trace Silt	
35		S-8	35	36.5	12	17	17	14"	SAME	
40										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Safety
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata _____

Inferred Change in Strata ----------

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ADDENDUM NUMBER 1

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-3

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 12.5±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-30-2008

GROUND WATER ELEVATION
0 Hr. 3.5 Date: 5-30-2008
24 Hr. Date:

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-30-2008

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	MUD	S-9	40	41.5	18	18	17	12"	Red-brown m(-)-f SAND, trace(+) Silt	
5		S-10	45	46.5	10	10	13	12"	Brown c-f SAND, trace(+) Silt	
0		S-11	50	51.5	14	15	20	12"	Red-brown m-f SAND, trace(+) Silt	
5		S-12	55	56.5	12	12	13	15"	Red-brown c(-)-f SAND, little(-) Silt	
0		S-13	60	61.5	17	19	20	15"	Red-brown f SAND, little(-) Silt	
5		S-14	65	66.5	14	19	22	13"	SAME	
0		S-15	70	71.5	20	26	29	15"	Red-brown m-f SAND, trace(+) Silt	
5		S-16	75	76.5	21	23	41	14"	Red-brown m(-)-f SAND, little(-) Silt	
0										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Safety
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata _____

Inferred Change in Strata ----------

oil descriptions represent a field identification after D.M. Burmister
nless otherwise noted.

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ADDENDUM NUMBER 1

ROUTE LOCAL NAME: Additions to the New Haven Regional Fire Academy BORING NO. B-3

SECTION: 230 Ella Grasso Blvd., New Haven, CT FIELD BORING NO.

STATION: OFFSET: REFERENCE LINE: GROUND ELEVATION: 12.5±

BORING BY: Soiltesting, Inc. DATE STARTED: 5-30-2008

GROUND WATER ELEVATION
0 Hr. 3.5 Date: 5-30-2008
24 Hr. Date:

INSPECTOR: D. Mulcahy DATE COMPLETED: 5-30-2008

DEPTH (ft)	CASING BLOWS	SAMPLE NO.	DEPTH		Blows on Spoon 0/6	6/12	12/18	REC. (in)	SOIL DESCRIPTION AND STRATIFICATION	(ft)
	MUD	S-16	80	81.5	15	12	23	15"	Red-brown f SAND, little Silt	
	⇩									
									Bottom of Hole 81.5 ft.	
85										
90										
95										
100										
105										
110										
115										
120										

Nominal I.D. of Hole	4 in.	
Nominal I.D. of Split Barrel Sampler	1 ⅜ in.	
Weight/type of Hammer on Drive Pipe	300 lb.	
Weight/type of Hammer on Split Barrel	140 lb.	Safety
Drop of Hammer on Drive Pipe	24 in.	
Drop of Hammer on Split Barrel	30 in.	
Core Size		

Soil descriptions represent a field identification after D.M. Burmister unless otherwise noted.

The subsurface information shown hereon was obtained for the Owner's design and estimate purposes. It is made available to authorized users only that they may have access to the same information available to the Owner. It is presented in good faith, but is not intended as a substitute for investigations, interpretation or judgment of such authorized users.

Approximate Change in Strata

Inferred Change in Strata

ADDENDUM NUMBER 1

Cahn Engineers Boring Logs

SOIL SAMPLING LOG

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Specialists
P. O. Box 69
SEYMOUR, CONNECTICUT
(203) 888-2857

DATE START 2/ 12/78
DATE FINISH 2/ 15/78
WEIGHT OF HAMMER 140 XXX
HAMMER FALL 30 XX

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH
2/12/78	[illegible]	6' 6"
2/15/78	11 A	4' 2"

SAMPLER C.D. 2" ID 1 3/8"
TYPE OF RIG Hydraulic Rotary

ESPECIALLY COMPILED FOR
Sand Engineers, Inc.
Alexander Drive
Wallingford, Ct.

SHEET 1 of 2
PROJ. NO.
LOCATION New Haven, Ct.
LINE & STA.
OFFSET
GROUND ELEVATION
HOLE NO. PT-2

	CASING	SAMPLER	CORE BARREL
TYPE	HSA	SS	
SIZE I.D.	2½"	1 3/8"	

Depth Below Surface	Sample No. Depth Elev. Ft.	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Density or Consist. Moisture	Profile Change Depth Elev.	Field Identification of Soils Remarks	Sample No.	Pen.	Rec.
	1' to 3'	SS	9	3	1 2			Fill (Sand, Cinders, Coal)	1	24"	4"
	5' to 6'6"	SS	3	1	1	Soft Wet		Same as Sample #1	2	18"	5"
10	10' to 12'	SS	2	1	1 1	Soft Wet	10'6"		3	24"	2"
	12' to 14'	SS	2	4	6 8	M. Comp Wet	13'6"	Grey Organic Clayey Silt, Trace Fibers, Some Layers Sand	4	24"	24"
	14' to 15'6"	SS	5	6	9	M. Comp Wet	15'	Grey M-F Sand, Little Silt	5	18"	18"
to	15'6" 17'	SS	8	8	11	M. Comp Wet		Red C-F Sand, Trace Fine Gravel, Trace Silt	6	18"	18"
20	20' to 21'6"	SS	8	9	9	M. Comp		Red F-M Sand, Trace Silt	7	18"	18"
	25' to 26'6"	SS	5	6	5	M. Comp Wet		Same as Sample #7	8	18"	18"
30	30' to 31'6"	SS	6	9	8	M. Comp Wet		SLIPPED SAMPLE Wash indicated Red F-M Sand	9	18"	0
	35' to 36'6"	SS	4	5	9	M. Comp Wet		Red F-M Sand with Seams of Grey Clay	10	18"	6"
40											

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: JM
HELPER: [illegible]
SOILS ENGINEER:
DRILLING INSPECTOR:

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0-10 LOOSE
10-30 MED. COMP
30-50 DENSE
50+ VERY DENSE

TOTAL FOOTAGE:
Earth Boring 45' Ft.
Rock Coring Ft.
HOLE NO.

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

1/73

ADDENDUM NUMBER 1

SOIL SAMPLING LOG

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Specialists
P. O. Box 69
SEYMOUR, CONNECTICUT
(203) 888-3857

SHEET 2 of 2

DATE START 2/12/78
DATE FINISH 2/15/78
WEIGHT OF HAMMER 140 300
HAMMER FALL 30" 24"

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH
2/1[illegible]/78	[illegible]	[illegible]
2/1[illegible]/78	11 A[illegible]	4[illegible]

SAMPLER O.D. 2" [illegible] 1 3/8"
TYPE OF RIG Hydraulic Rotary

ESPECIALLY COMPILED FOR
[illegible] Engineers, Inc.
Alexander Drive
Wallingford, Ct.

PROJ. NO.
LOCATION New Haven, Ct.
LINE & STA.
OFFSET
GROUND ELEVATION
HOLE NO. FT-2

	CASING	SAMPLER	CORE BARREL
TYPE	HSA	SS	
SIZE I.D.	2½"	1 3/8"	

Depth Below Surface	SAMPLE NO. DEPTHS ELEV. FT	Type of Sample	BLOWS PER 6" ON SAMPLER From 0-6	To 6-12	To 12-18	DENSITY OR CONSIST. MOISTURE	PROFILE CHANGE DEPTH ELEV	FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE NO.	PEN	REC
	40' to 41'6"	SS	3	3	6	Loose Wet		Red F-M Sand	11	18"	18"
	43'6" 45'	SS	[illegible]	6	[illegible]		45'	Red brown [illegible] Sand	12	18"	14"
								BOTTOM OF BORING 45'			

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: [illegible]
HELPER: [illegible]
SOILS ENGINEER:
DRILLING INSPECTOR:

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

CONFEXIONLESS DENSITY
0-10 LOOSE
10-30 MED. COMP.
30-50 DENSE
50-[illegible] VERY DENSE

TOTAL FOOTAGE:
Earth Boring 45' Ft.
Rock Coring Ft.
HOLE NO.

MOT. REQUIREMENTS FOR SAMPLE STORAGE AFTER 30 DAYS

5/73

ADDENDUM NUMBER 1

PAGE 48 OF 165

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Specialists
P. O Box 69
SEYMOUR, CONNECTICUT
(203) 888 3857

SHEET 1 of 2

PROJ. NO.

DATE FINISH 2/20/78

WEIGHT OF HAMMER 140 ~~XX~~

HAMMER FALL 30" ~~XX~~

LOCATION New Haven, Ct.

LINE & STA.

OFFSET

GROUND ELEVATION

HOLE NO FT-4

ESPECIALLY COMPILED FOR
Cahn Engineers, Inc.
Alexander Drive
Wallingford, Ct.

GROUND WATER OBSERVATIONS			
DATE	TIME		
2/20/78	0 HRS	6' 2"	

	CASING	SAMPLER	CORE BARREL
TYPE	HSA	SS	
SIZE I.D.	2½"	1 3/8"	

SIZE O.D. 2" 1 3/8"

TYPE OF DRILL Hydraulic Rotary

Depth Below Surface	Sample No. Depths Elev. ft	Type of Sample	Blows per 6" On Sampler 0 to 6	6 to 12	12 to 18	Density or Consistency Cohesive	Profile Change Depth Feet	Field Identification of Soils Remarks	Sample No	Pen	Rec
	1'to 2'6"	SS	18	13	12	M.Comp Dry		Black and Brown C-F Sand, Trace of M-F Gravel, Bricks (Misc. Fill)	1	18	14
	4'to 5'6"	SS	10	6	7	M.Comp Dry		Black and Red Brown C-F Sand, Some Cinders - Ashes (Misc. Fill)	2	18	16
							7'6"				
	9'to 10'6"	SS	2	3	3	Soft Moist		Black Organic Peat Moss, Organic Fibers mixed with Grey Fine Sand	3	18	6
to	10'6" to 12'	SS	2	4	2	Soft Wet		Black M-F Sand, Some Silt, Some Organic Fibers	4	18	18
	12'to 13'6"	SS	2	1	2	Soft Wet		Black M-F Sand, Some Silt, Some Organic Fibers	5	18	18
to	13'6" to 15'	SS	WOH	3	5	Loose Wet	16'	Black M-F Sand, Some Sea Shells, Some Silt	6	18	18
	15'to 16'6"	SS	4	3	5	Loose Wet		Black M-F Sand,Some Silt CHANGING TO Red Brown Fine Sand, Little Silt	7	18	18
to 20	16'6" to 18'	SS	4	7	7	M.Comp Wet		Red Brown Fine Sand, Little Silt	8	18	18
	18'to 19'6"	SS	2	9	12	M.Comp Wet		Red Brown Fine Sand, Little Silt	9	18	10
	24'to 25'6"	SS	2	2	3	Loose Wet		Red Brown M-F Sand, Trace of Silt	10	18	18
	29'to 30'6"	SS	9	8	8	M.Comp Wet		Red Brown M-F Sand, Trace of Silt	11	18	18
35											
	34'to 35'6"	SS	6	8	8	M.Comp Wet		Red Brown M-F Sand, Trace of Silt	12	18	18
40											

Proportions used throughout: 0 to 10%, little; 10 to 20%, some; 20 to 35%, and; 35 to 50%

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

DRILLER: jd
HELPER: gs
SOILS ENGINEER
DRILLING INSPECTOR: bk

5/73

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0-10 LOOSE
10-30 MED. COMP
30-50 DENSE
50+ VERY DENSE

TOTAL FOOTAGE
Earth Boring 45' ft.
Rock Coring ft.
HOLE NO

ADDENDUM NUMBER 1 PAGE 49 OF 185

DATE STARTED	2/20/78	**CONNECTICUT TEST BORINGS INC.**	SHEET 2 of 2
DATE FINISH	2/20/78	Sub-Surface Specialists	PROJ. NO.
WEIGHT OF HAMMER	140 XX	P. O. Box 69	LOCATION New haven, Ct.
HAMMER FALL	20 XX	SEYMOUR CONNECTICUT	LINE & STA.
		(203) 888-3837	OFFSET
DATE 2/20/78	TIME 0 HRS	ESPECIALLY COMPILED FOR	GROUND ELEVATION
		Cahn Engineers, Inc.	HOLE NO. FT-4
		Alexander Drive	CASING HSA SAMPLER SS CORE BARREL
		Wallingford, Ct.	SIZE 2½" 1 3/8"
	2" 1 3/8"		
	Hydraulic Rotary		

								FIELD IDENTIFICATION OF SOILS REMARKS	SAMPLE NO.	PEN.	REC.
39' to 40'6"	SS	9	10	10	M.Comp Wet			Red Brown M-F Sand, Trace of Silt	13	18	18
43'6" 45'	SS	20	24	24	Dense Wet	45'		Same as Sample # 13 NOTE: BLOWS HIGH DUE TO SAND IN AUGER	14	18	18
								BOTTOM OF BORING 45'			

Proportions used trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER jd
HELPER gs
SOILS ENGINEER
DRILLING INSPECTOR bk

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED THINWALL

COHESIONLESS DENSITY
0-10 LOOSE
10-30 MED. COMP.
30-50 DENSE
50-4 VERY DENSE

TOTAL FOOTAGE
Earth Boring 45' Ft.
Rock Coring Ft.
HOLE NO.

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

5/73

ADDENDUM NUMBER 1 PAGE 50 OF 185

SOIL SAMPLING LOG

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Foundations

P. O. Box 69

SEYMOUR, CONNECTICUT

(203) 888-3847

SHEET 1 of 2

DATE START 2/21/78

DATE FINISH 2/21/78

WEIGHT OF HAMMER TWO Wet

HAMMER FALL 30" Wet

GROUND WATER OBSERVATIONS

DATE	TIME	DEPTH
2/21/78	7:37	3'7"

High Tide

SHUMPER O.D. 2" 1 3/8"

TYPE OF BIT Hydraulic Rotary

ESPECIALLY COMPILED FOR

Cahn Engineers, Inc.

Alexander Drive

Wallingford, Ct.

PROJ. NO.

LOCATION New Haven, Ct.

LINE & STA.

OFFSET

GROUND ELEVATION

HOLE NO. FT- 11

	CASING	SAMPLER	CORE BARREL
TYPE	NSA	SS	
SIZE I.D.	2½"	1 3/8"	

Depth Below Surface	Sample No. Depth Elev. Ft.	Type of Sample	Blows per 6" on Sampler 0-6	6-12	12-18	Density or Consist. Moisture	Probable Change Depth Elev.	Field Identification of Soils Remarks	Sample No.	Pen.	Rec.
	1" to 2'6"	SS	16	3	8	F. Comp Moist		Black Fill (Sand - Wood - Coal -Ash	1	18	10
	4" to 5'6"	SS	5	2	3	Loose Wet		Same as Sample #1	2	18	6
	6" to 1'6"	SS	5	2	3	Loose Wet		Black Miscellanous Fill with Clay and Silt	3	18	6
	14" to 15'6"	SS	2	1	0	Loose Wet	13'6"	Black Organic Clay with Seams of Fine Sand	4	18	18
	19" to 2'6"	SS	1	[illegible]	2	Loose Wet		Black Organic Clay, Trace Shells	5	18	18
	24" to 26'5"	SS	[illegible]	[illegible]	4	Soft Wet		Black Organic Clay, Some Silt	6	30	18
	26'5" 28"	SS	2	1	2	Soft Wet		Black Organic Clay with 1' Layer of Grey F-M Sand	7	18	18
	28" to 29'6"	SS	2	[illegible]	1	Soft Wet	30'6"	Black Organic Clay, Small Layer of Grey F-M Sand	8	18	18
	29'6" to 31"	SS	4	5	11	F. Comp Wet		Black F-M Sand, Little Silt CHANGING TO Red Brown C-F Sand, Trace of Fine Gravel	9	18	18
	34" to 35'6"	SS	5	8	10	F. Comp Wet		Red Brown Fine Sand, Some Silt	10	18	18

Proportions used: trace = 0-10%, little = 10-20%, some = 20-35%, and = 35-50%

DRILLER: JG

HELPER: [illegible]

SOILS ENGINEER: [illegible]

DRILLING INSPECTOR: [illegible]

SAMPLE TYPE
C = CORED W = WASHED
SS = SPLIT SPOON
UP = UNDISTURBED PISTON
TP = TEST PIT
UT = UNDISTURBED TRIMWALL

CONSISTENCY DENSITY
0-10 LOOSE
10-30 MED. COMP.
30-50 DENSE
50+ VERY DENSE

TOTAL FOOTAGE
Earth Boring N.
Rock Coring Ft.
HOLE NO.

NOT RESPONSIBLE FOR SAMPLE STORAGE AFTER 30 DAYS

ADDENDUM NUMBER 1 PAGE 51 OF 185

SOIL SAMPLING LOG

CONNECTICUT TEST BORINGS, INC.

Sub-Surface Specialists
P. O. Box 69
SEYMOUR, CONNECTICUT
(203) 888-3897

DATE STARTED	2/21/79
DATE FINISH	2/21/79
WEIGHT OF HAMMER	140 lbs
HAMMER FREE	30" 1#
GROUND WATER OBSERVATIONS	DATE 2/21/79 · TIME 2:33 · DEPTH 3'7"
SAMPLER O.D.	2" to 1 3/8"
TYPE OF RIG	Hydraulic Rotary

SHEET 2 of 2

PROJ. NO.

LOCATION New Haven, Ct.

LINE & STA.

OFFSET

GROUND ELEVATION

HOLE NO. PT-11

	CASING	SAMPLER	CORE BARREL
TYPE	HSA	SS	
SIZE I.D.	2½"	1 3/8"	

ESPECIALLY COMPILED FOR
Cahn Engineers, Inc.
Alexander Drive
Wallingford, Ct.

Depth Below Surface	Sample No. Depths Elev. Ft.	Type of Sample	Blows per 6" on Sampler From 0-6	6-12	To 12-18	Density or Consist. Moisture	Profile Change Depth Elev.	Field Identification of Soils Remarks	Sample No.	Pen.	Rec.
	39'6" 41'	SS	5	5	8	Comp Wet		Red Brown Fine Sand, Some Silt with Layers of C-F Sand ARTESIAN CONDITION AT 44'	11	18	18
	44' to 45'6"	SS	4	[illegible]	7	Comp Wet		Red Brown F-M Sand, Trace of Silt	12	18	18
	49' to 50'6"	SS	6	8	10	Comp Wet		Red Brown Fine Sand, Some Silt and Red Brown F-M Sand	13	18	16
	53'6" 55'	SS	4	6	5	Comp Wet	55'	Red Brown Fine Sand, Some Silt	14	18	18
								BOTTOM OF BORING 55'			

ATTACHMENT "B"

CONTAMINATED SOILS REPORT

LIMITED PHASE II INVESTIGATION

New Haven Regional Fire Academy
230 Ella Grasso Boulevard
New Haven, Connecticut

DPW Project No. BI-FP-008A

Prepared for:

Department of Public Works
165 Capital Avenue
Hartford, Connecticut

Prepared by:

Logical Environmental Solutions

Logical Environmental Solutions, LLC
354 South River Road
Tolland, Connecticut

June 16, 2008

Logical Environmental Solutions LLC

354 South River Road Tolland, CT 06084 Tel: (860) 870-1780 Fax: (860) 870-1778

June 16, 2008

Ms. Rebecca Cutler
State of Connecticut
Department of Public Works
165 Capital Avenue
Hartford, Connecticut 06115

Re: Limited Phase II Investigation
New Haven Regional Fire Academy
230 Ella Grasso Boulevard
New Haven, Connecticut
DPW Project No. BI-FP-008A

Dear Rebecca:

On June 3, 2008, Logical Environmental Solutions (LES) completed eleven (11) soil borings at the New Haven Regional Fire Academy property located at 230 Ella Grasso Boulevard in New Haven, Connecticut (DPW Project No. BI-FP-008A). The purpose of the borings was to investigate shallow soil conditions in areas of proposed construction activities for the New Haven Regional Fire Academy improvement project. The proposed project will include the construction of a new Training Support Building located to the northeast of the existing academy building, the demolition and reconstruction of the Burn Building, and the installation of a new water line in the southern portion of the site. The eleven soil borings were advanced with a track-mounted Geoprobe® direct push rig to 5 feet below grade. Figure 1 depicts the site location and Figure 2 depicts the soil boring locations.

Investigation Summary

Continuous soil samples were collected and screened in the field for total volatile organic compounds. Soil boring logs denoting the soil types, field screening results, and general observations are included in Appendix A of this letter report. Soils encountered during this investigation consisted of fill material comprised of sand, silt, and gravel, with varying amounts of ash, cinders, wood, asphalt fragments, concrete, brick, and burned organic material. Natural materials underlying the fill consisted of red-brown sand units with varying amounts of silt and gravel. Groundwater was not encountered in the shallow soil borings.

One soil sample from each boring's 2 to 5 foot interval below grade was selected for laboratory analyses of petroleum hydrocarbons utilizing CTETPH, volatile organic compounds (VOCs) utilizing EPA Method 8260, semi-volatile organic compounds (SVOCs) utilizing EPA Method 8270, polychlorinated biphenyls (PCBs) utilizing EPA Method 8082, total RCRA 8 metals, and leachable (via SPLP) RCRA 8 metals. All soil samples were collected in accordance with the Connecticut Department of Environmental Protection (CTDEP) sampling protocols and were analyzed at Spectrum Analytical Laboratory.

The results of the soil sample analyses were compared to the CTDEP's Remediation Standard Regulation (RSR) Pollutant Mobility Criteria (PMC) and Direct Exposure Criteria (DEC). The DEC and PMC are briefly explained in the following paragraphs, in relation to how they would be applicable to the types of analyses conducted on the soil samples collected for this investigation. Please refer to the RSRs for a complete explanation of the Regulations.

Direct Exposure Criteria

The purpose of the Direct Exposure Criteria (DEC) is to protect human health from risks associated with the direct contact with or ingestion of various common soil contaminants. The DEC are applicable to soil within approximately fifteen (15) feet of the ground surface. Concentrations of contaminants are evaluated based upon mass-based analyses and different criteria are established for residential and commercial/industrial properties. The use of the less stringent commercial/industrial standards requires the placement of a land use restriction on the property. The DEC is not applicable to inaccessible soils, including soil more than four (4) feet below the ground surface, two (2) feet below pavement greater than three (3) inches thick, or below an existing building, provided that an Environmental Land Use Restriction (ELUR) is placed in effect for the property.

Pollutant Mobility Criteria

The purpose of the Pollutant Mobility Criteria (PMC) is to evaluate the potential for contaminants to leach from the soil in concentrations that may degrade groundwater quality. Different numerical criteria are established for GA and GAA groundwater areas, versus GB groundwater areas. Since the site is located in a GB classified groundwater area, the least stringent PMC will be utilized. All of the properties in the immediate vicinity of the site are connected to the public water distribution system and municipal sewer system.

Investigation Results

Tables 1 through 3 are located at the end of this letter report, and they summarize the results of the soil sample analyses. The following summarizes the results of the soil boring investigation:

The soil samples contained petroleum hydrocarbons at concentrations ranging from Below laboratory Reporting Limits (BRL) to 1,590 parts per million (ppm). The soil samples from borings GP-1 (1,520 ppm), GP-9 (1,590 ppm), and GP-11 (1,180 ppm) contained petroleum hydrocarbons at concentrations that exceed the Residential DEC of 500 ppm. No other soil sample contained petroleum hydrocarbons at concentrations that exceed any applicable CTDEP RSR criteria.

The VOC toluene was detected in the GP-8 (0.0125 ppm) and GP-10 (0.0112 ppm) samples at low concentrations that do not exceed any applicable CTDEP RSR criteria. No other VOCs were detected in any of the soil samples.

The soil samples from borings GP-2, GP-3, GP-4, and GP-11 contained various concentrations of the SVOCs benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, chrysene, fluoranthene, phenanthrene, and pyrene. However, none of the soil samples contained SVOCs at concentrations that exceed any applicable CTDEP RSR criteria.

The GP-1, GP-2, GP-3, GP-4, GP-6, GP-8, GP-9, GP-10, and GP-11 contained PCBs at total concentrations ranging from 0.0267 ppm to 0.265 ppm. However, none of the samples contained PCBs at concentrations that exceed any applicable CTDEP RSR criteria.

Total concentrations of the metals arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver were detected at varying concentrations in the soil samples throughout the project site. However, only the GP-4 sample contained total lead (795 ppm) at a concentration that exceeds the Residential DEC of 500 ppm. No other soil sample contained total metals at concentrations that exceed any applicable CTDEP RSR criteria.

Leachable concentrations (via SPLP) of barium, chromium, and lead were detected at varying concentrations in the soil samples throughout the project site. However, the concentrations of leachable metals detected in the soil samples do not exceed any applicable CTDEP RSR criteria.

Based upon the results of laboratory analyses performed on the soil samples for this Limited Phase II investigation, four (4) areas of environmental concern (AOEC) have been identified where contaminants are present in the soil at concentrations that exceed applicable CTDEP RSR criteria. In addition, the remaining portion of the project area would be considered a low-level area of environmental concern (LLAOEC), where contaminants were detected at concentrations below applicable CTDEP RSR standards, but above laboratory detection limits. The following summarizes the AOECs and the LLAOEC.

Areas of Environmental Concern (AOECs)

AOEC #1: Boring GP-1 – Proposed Training Support Building:
The GP-1 soil sample contained petroleum hydrocarbon contamination at an elevated concentration that exceeds the Residential DEC in soil ranging from 2 to 5 feet below grade.

AOEC #2: Boring GP-4 – Proposed Training Support Building:
The GP-4 soil sample contained total lead contamination at an elevated concentration that exceeds the Residential DEC in soil ranging from 2 to 5 feet below grade.

AOEC #3: Boring GP-9 – Burn Building/Water Line Installation:
The GP-9 soil sample contained petroleum hydrocarbon contamination at an elevated concentration that exceeds the Residential DEC in soil ranging from 2 to 5 feet below grade.

AOEC #4: Boring GP-11 – Water Line Installation:
The GP-11 soil sample contained petroleum hydrocarbon contamination at an elevated concentration that exceeds the Residential DEC in soil ranging from 2 to 5 feet below grade.

Low Level Area of Environmental Concern

Samples GP-2, GP-3, GP-5, GP-6, GP-7, GP-8, & GP-10

The GP-2, GP-3, GP-5, GP-6, GP-7, GP-8, and GP-10 soil samples collected from 2 to 5 feet below grade indicate the presence of petroleum hydrocarbons, VOCs, SVOCs, and PCBs at concentrations below CTDEP RSR standards.

Recommendations

The results of the Limited Phase II investigation of the New Haven Regional Fire Training Academy project indicate the presence of petroleum hydrocarbon and total lead contamination in soil samples collected from four locations (AOECs) at concentrations that exceed applicable RSR criteria. The contamination was detected in soils ranging in depth from 2 to 5 feet below grade in the area of the proposed Training Support Building (AOECs #1 & #2), the Burn Building/Water Line (AOEC #3), and the Water Line (AOEC #4). The contamination present in these areas should be excavated and removed for offsite disposal at a licensed facility during the construction phase of the project.

The remaining portions of the project area would be considered a Low-Level Area of Environmental Concern (LLAOEC) due to the presence of contaminants at concentrations below applicable CTDEP RSR criteria but greater than laboratory detection limits. If soil is to be disturbed during construction activities, it should be managed to reduce potential worker exposure to contaminants but it can be re-used onsite. If excess soil cannot be reused onsite, the soil should be removed for offsite disposal at a licensed facility.

Copies of the laboratory reports for the soil sample analyses are included at the end of this letter in Appendix B. If you should have any questions regarding the results of this investigation, please call me at (860) 870-1780

Very Truly Yours,
Logical Environmental Solutions

Cindy Knight, LEP
President

attachments

FIGURES

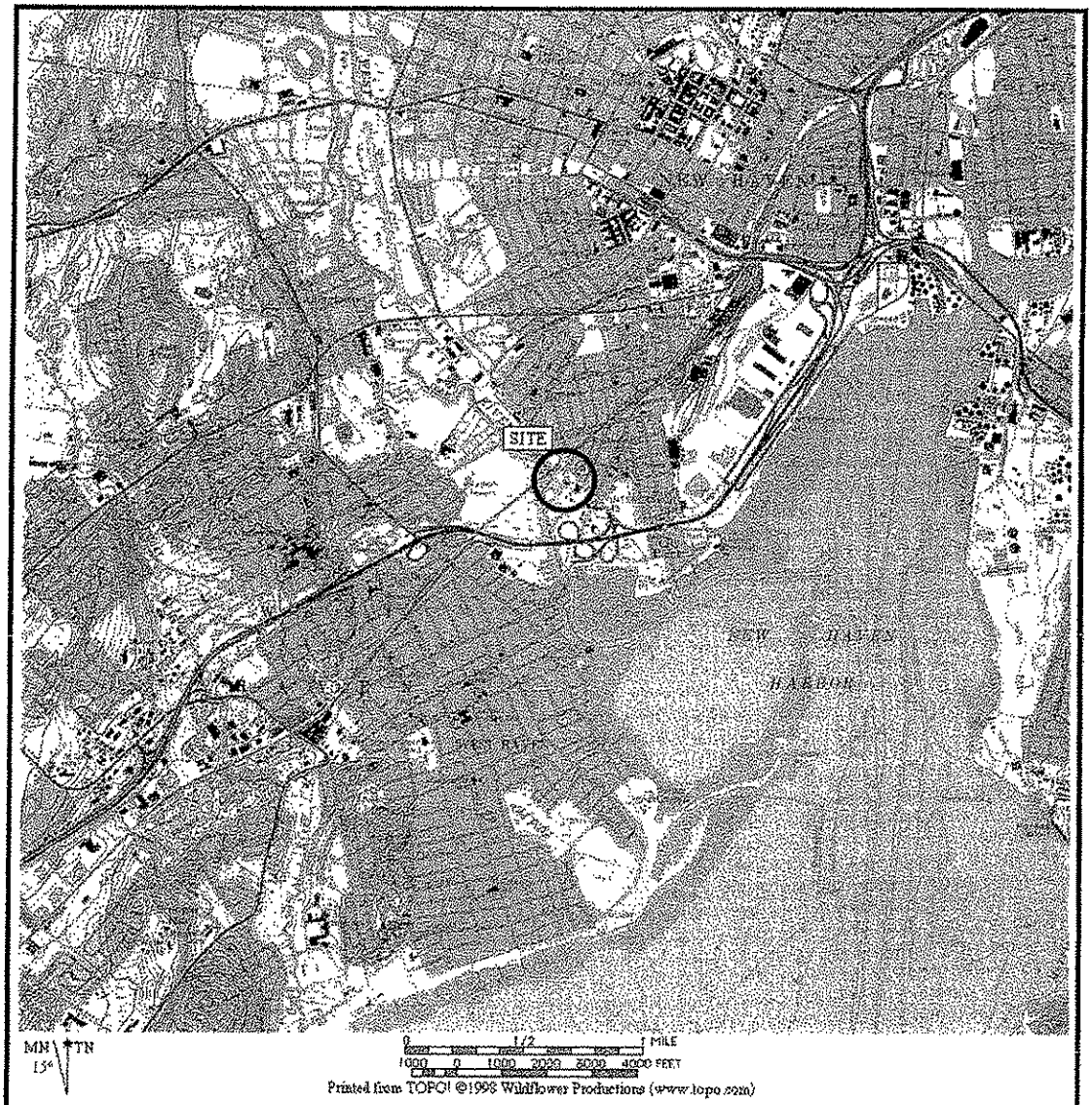


FIGURE 1 – SITE LOCATION PLAN
New Haven Regional Fire Academy
230 Ella Grasso Boulevard
New Haven, Connecticut

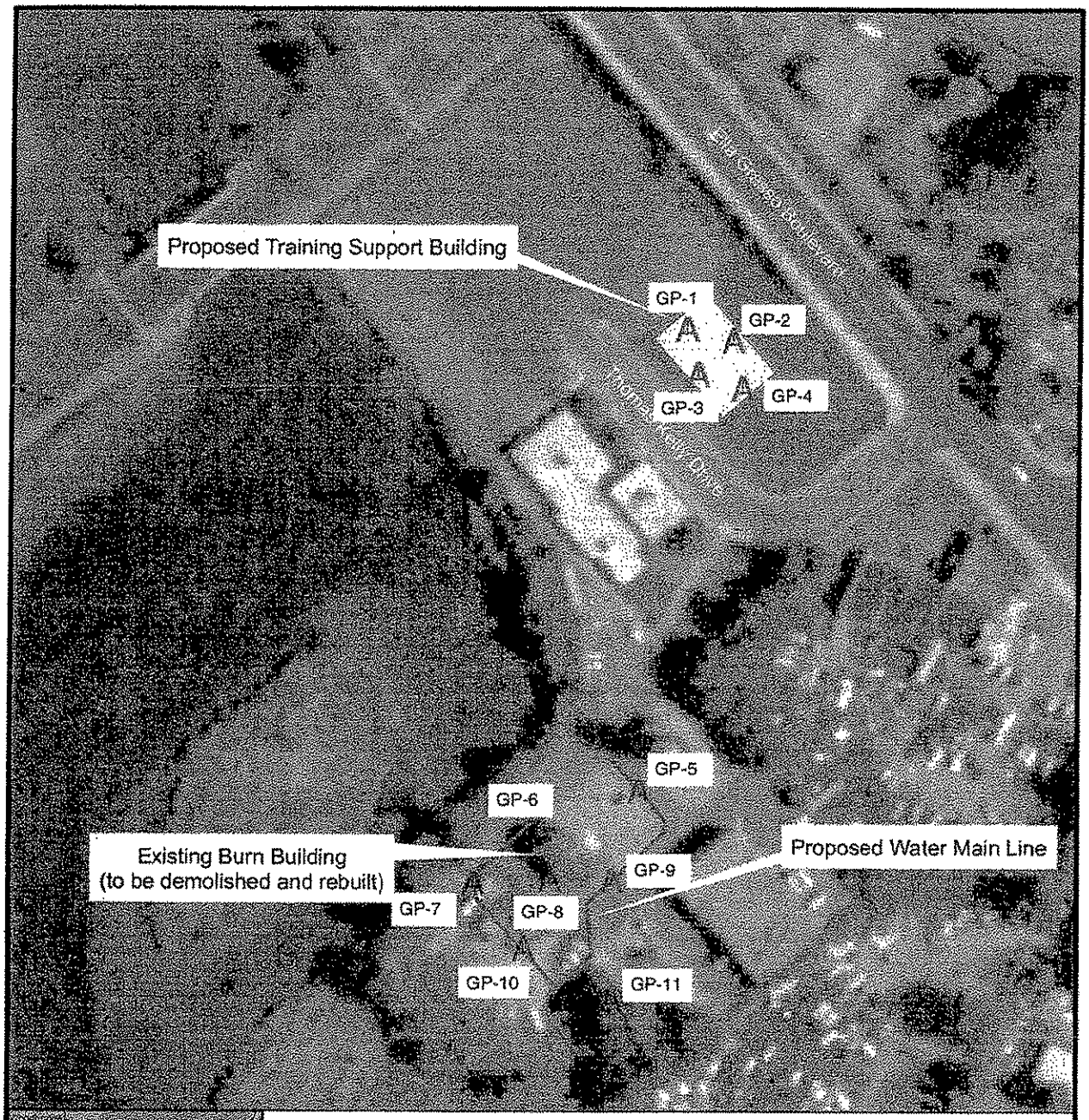


FIGURE 2 - SAMPLING LOCATIONS

STATE OF CONNECTICUT
DEPARTMENT OF PUBLIC WORKS

For planning purposes only

Source: NAIP New Haven 2006 DEMC

Printed in color
Prepared by: RAC
Date: 05/14/08

New Haven Regional Fire Academy
230 Ella Grasso Blvd
New Haven, CT

Limited Phase II Investigation

ADDENDUM NUMBER 1

TABLES

TABLE 1 - Results of Geoprobe® Boring Soil Sample Analyses
New Haven Regional Fire Academy – Limited Phase II Investigation
230 Ella Grasso Boulevard - New Haven, Connecticut
June 2008

Boring I.D.:	GP-1	GP-2	GP-3	GP-4	CTDEP PMC GB Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
Sample Depth:	2'-5'	2'-5'	2'-5'	2'-5'		
CT ETPH - (ppm)	***1,520***	81.7	76.8	136	2,500 ppm	**500**/2,500 ppm
VOCs - Method 8260 (ppm)	BRL	BRL	BRL	BRL		
SVOCs - Method 8270 (ppm)						
Benzo(a)pyrene	BRL	BRL	BRL	0.453	1 ppm	1/1 ppm
Benzo(b)fluoranthene	BRL	BRL	BRL	0.478	1 ppm	1/7.8 ppm
Benzo(k)fluoranthene	BRL	BRL	BRL	0.4	1 ppm	8.4/78 ppm
Bis(2-ethylhexl)phthalate	BRL	0.821	BRL	BRL	11 ppm	44/410 ppm
Chrysene	BRL	BRL	BRL	0.407	1 ppm	84/780 ppm
Fluoranthene	BRL	0.483	0.656	0.69	56 ppm	1,000/2,500 ppm
Phenanthrene	BRL	BRL	0.452	0.358	40 ppm	1,000/2,500 ppm
Pyrene	BRL	0.543	0.63	0.76	40 ppm	1,000/2,500 ppm
PCBs – Method 8082 (ppm)						
PCB-1260	0.0433	0.121	0.09386	0.122	Not Applicable	1/10 ppm
Total PCBs	0.0433	0.121	0.0386	0.122	Not Applicable	1/10 ppm
Total RCRA 8 Metals (ppm)					Not Applicable	
Arsenic	1.8	6.74	3.51	6.14		10/10 ppm
Barium	54.0	246	47.0	96.4		4,700/140,000 ppm
Cadmium	BRL	2.04	1.72	1.71		34/1,000 ppm
Chromium	6.95	9.6	7.74	8.09		100/100 ppm (Cr^{+6})
Lead	133	285	128	***795***		**500**/1,000 ppm
Mercury	0.183	0.275	0.0856	0.265		20/610 ppm
Selenium	BRL	1.75	1.69	BRL		340/10,000 ppm
Silver	BRL	2.53	BRL	BRL		340/10,000 ppm
SPLP RCRA 8 Metals (ppm)						Not Applicable
Barium	0.0216	BRL	0.0197	0.0185	10 ppm	
Lead	0.0403	0.0156	0.0296	0.108	0.15 ppm	

BRL – Below Reporting Limits

PMC – Pollutant Mobility Criteria DEC – Direct Exposure Criteria

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

Numerical criteria shown in bold italic font exceed applicable CTDEP Remediation Standard Regulation Criteria.

TABLE 2 - Results of Geoprobe® Boring Soil Sample Analyses
New Haven Regional Fire Academy – Limited Phase II Investigation
230 Ella Grasso Boulevard - New Haven, Connecticut
June 2008

Boring I.D.: Sample Depth:	GP-5 2'-5'	GP-6 2'-5'	GP-7 2'-5'	GP-8 2'-5'	CTDEP PMC GB Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
CT ETPH - (ppm)	183	221	BRL	BRL	2,500 ppm	500/2,500 ppm
VOCs - Method 8260 (ppm)						
Toluene	BRL	BRL	BRL	0.0125	67 ppm	500/1,000 ppm
SVOCs - Method 8270 (ppm)	BRL	BRL	BRL	BRL		
PCBs – Method 8082 (ppm)						
PCB-1260	BRL	0.0729	BRL	0.0267	Not Applicable	1/10 ppm
Total PCBs	BRL	0.0729	BRL	0.0267	Not Applicable	1/10 ppm
Total RCRA 8 Metals (ppm)					Not Applicable	
Arsenic	BRL	2.5	3.45	BRL		10/10 ppm
Barium	21.5	109	57.1	34.7		4,700/140,000 ppm
Chromium	4.06	10.5	22.8	9.42		100/100 ppm (Cr^{+6})
Lead	15.5	73.0	64.9	8.71		500/1,000 ppm
Mercury	BRL	0.0811	0.175	BRL		20/610 ppm
SPLP RCRA 8 Metals (ppm)						Not Applicable
Barium	0.0178	0.0322	0.0309	0.0227	10 ppm	
Chromium	BRL	BRL	0.0115	BRL	0.5 ppm	
Lead	0.0294	0.026	0.0388	0.0152	0.15 ppm	

BRL – Below Reporting Limits

PMC – Pollutant Mobility Criteria DEC – Direct Exposure Criteria

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

Numerical criteria shown in bold italic font exceed applicable CTDEP Remediation Standard Regulation Criteria.

TABLE 3 - Results of Geoprobe® Boring Soil Sample Analyses
New Haven Regional Fire Academy – Limited Phase II Investigation
230 Ella Grasso Boulevard - New Haven, Connecticut
June 2008

Boring I.D.: Sample Depth:	GP-9 2'-5'	GP-10 2'-5'	GP-11 2'-5'	CTDEP PMC GB Groundwater Area	CTDEP DEC Residential/Commercial & Industrial
CT ETPH - (ppm)	***1,590***	BRL	***1,180***	2,500 ppm	**500**/2,500 ppm
VOCs - Method 8260 (ppm)					
Toluene	BRL	0.0112	BRL	67 ppm	500/1,000 ppm
SVOCs - Method 8270 (ppm)					
Fluoranthene	BRL	BRL	2.06	56 ppm	1,000/2,500 ppm
Pyrene	BRL	BRL	2.09	40 ppm	1,000/2,500 ppm
PCBs – Method 8082 (ppm)					
PCB-1254	BRL	0.227	0.0535	Not Applicable	1/10 ppm
PCB-1260	0.0972	0.038	0.0376	Not Applicable	1/10 ppm
Total PCBs	0.0972	0.265	0.0911	Not Applicable	1/10 ppm
Total RCRA 8 Metals (ppm)				Not Applicable	
Arsenic	BRL	BRL	6.04		10/10 ppm
Barium	27.7	58.7	63.5		4,700/140,000 ppm
Cadmium	BRL	1.43	BRL		34/1,000 ppm
Chromium	5.27	13.6	9.98		100/100 ppm (Cr^{+6})
Lead	10.2	9.34	113		500/1,000 ppm
Mercury	BRL	BRL	0.148		20/610 ppm
SPLP RCRA 8 Metals (ppm)					Not Applicable
Barium	0.0106	0.0182	0.0222	10 ppm	
Lead	0.0251	BRL	0.0322	0.15 ppm	

BRL – Below Reporting Limits

PMC – Pollutant Mobility Criteria DEC – Direct Exposure Criteria

The compounds listed above are those that were detected - please see laboratory reports for full lists of compounds and their specific detection limits.

Numerical criteria shown in bold italic font exceed applicable CTDEP Remediation Standard Regulation Criteria.

APPENDIX A
Boring Logs

SOIL BORING LOG

Project: New Haven Regional Fire Academy — **Boring:** GP-1

Location: 230 Ella Grasso Blvd - New Haven, CT — **Inspector:** C. Knight

Client: State of CT DPW — **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray-Brown fine SAND, little Silt, trace fine Gravel	1.0		
1.0					
2.0		Red-Brown fine to medium SAND, little Silt, trace Brick, Asphalt Fragments & fine to coarse Gravel (FILL)		0.2	Macro Core 0'-5'
3.0					
4.0			4.5		
		Red-Brown fine to medium SAND, little Silt, trace fine Gravel	5.0		
5.0					
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry — **Depth to Water:** Dry — **Boring Dia.:** 2"

Rig: Geoprobe 540T — **Boring Depth:** 5' — **Page:** 1 of 1

ADDENDUM NUMBER 1

SOIL BORING LOG

Project: New Haven Regional Fire Academy **Boring:** GP-2

Location: 230 Ella Grasso Blvd - New Haven, CT **Inspector:** C. Knight

Client: State of CT DPW **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray-Brown fine SAND, little Silt, trace fine Gravel	0.5		
1.0		Black ASH & CINDERS, little weathered Concrete, Brick, & Slag (FILL)		0.1	Macro Core 0'-5'
2.0					
3.0					
4.0					
5.0			5.0		
6.0		End of Boring at 5'			
7.0		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry **Depth to Water:** Dry **Boring Dia.:** 2"

Rig: Geoprobe 540T **Boring Depth:** 5' **Page:** 1 of 1

SOIL BORING LOG

Project: New Haven Regional Fire Academy **Boring:** GP-3

Location: 230 Ella Grasso Blvd - New Haven, CT **Inspector:** C. Knight

Client: State of CT DPW **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray-Brown fine SAND, little Silt, trace fine Gravel	0.4		
1.0		Gray to Black ASH & CINDERS, little Crushed Asphalt, trace Concrete & Brick (FILL)		0.3	Macro Core 0'-5'
2.0					
3.0					
4.0			4.0		
		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel			
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry **Depth to Water:** Dry **Boring Dia.:** 2"

Rig: Geoprobe 540T **Boring Depth:** 5' **Page:** 1 of 1

SOIL BORING LOG

Project: New Haven Regional Fire Academy — **Boring:** GP-4

Location: 230 Ella Grasso Blvd - New Haven, CT — **Inspector:** C. Knight

Client: State of CT DPW — **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Gray-Brown fine SAND, little Silt, trace fine Gravel	0.8		
1.0					
2.0					
3.0		Red-Brown to Black fine to medium SAND, little Silt, trace fine to coarse Gravel & small Brick & Concrete fragments (FILL)		0.3	Macro Core 0'-5'
4.0					
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry — **Depth to Water:** Dry — **Boring Dia.:** 2"

Rig: Geoprobe 540T — **Boring Depth:** 5' — **Page:** 1 of 1

ADDENDUM NUMBER 1 PAGE 70 OF 1[illegible]

SOIL BORING LOG

Project: New Haven Regional Fire Academy **Boring:** GP-5

Location: 230 Ella Grasso Blvd - New Haven, CT **Inspector:** C. Knight

Client: State of CT DPW **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Multi-Colored medium to coarse GRAVEL	0.8		
1.0		Gray-Brown fine to medium SAND, little fine to coarse Gravel, trace Silt & coarse Sand			
2.0				0.2	Macro Core 0'-5'
3.0		Red-Brown fine to medium SAND, trace fine Gravel, coarse Sand & Silt			
4.0					
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry **Depth to Water:** Dry **Boring Dia.:** 2"

Rig: Geoprobe 540T **Boring Depth:** 5' **Page:** 1 of 1

ADDENDUM NUMBER 1 PAGE 71 OF 185

SOIL BORING LOG

Project: New Haven Regional Fire Academy **Boring:** GP-6

Location: 230 Ella Grasso Blvd - New Haven, CT **Inspector:** C. Knight

Client: State of CT DPW **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Multi-Colored medium to coarse GRAVEL	0.3		
		Gray-Brown fine to medium SAND, little Silt & fine to coarse Gravel, trace Brick (FILL)			
1.0					
2.0					
				0.3	Macro Core 0'-5'
3.0		Red-Brown fine to medium SAND, some Silt, trace fine Gravel, Brick & Concrete (FILL)			
4.0					
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry **Depth to Water:** Dry **Boring Dia.:** 2"

Rig: Geoprobe 540T **Boring Depth:** 5' **Page:** 1 of 1

ADDENDUM NUMBER 1 PAGE 72 OF 185

SOIL BORING LOG

Project: New Haven Regional Fire Academy — **Boring:** GP-7

Location: 230 Ella Grasso Blvd - New Haven, CT — **Inspector:** C. Knight

Client: State of CT DPW — **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Multi-Colored medium to coarse GRAVEL	0.4		
1.0		Brown fine to coarse SAND, little fine to coarse Gravel, trace Silt	1.5		
2.0					
		Red-Brown fine to medium SAND, little Silt & fine to coarse Gravel, with seams of Green-Brown SILT		0.6	Macro Core 0'-5'
3.0					
4.0			4.5		
		Black SILT, little fine Sand, trace Wood, Organics & Burned Material	5.0		
5.0					
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry — **Depth to Water:** Dry — **Boring Dia.:** 2"

Rig: Geoprobe 540T — **Boring Depth:** 5' — **Page:** 1 of 1

ADDENDUM NUMBER 1

SOIL BORING LOG

Project: New Haven Regional Fire Academy | **Boring:** GP-8

Location: 230 Ella Grasso Blvd - New Haven, CT | **Inspector:** C. Knight

Client: State of CT DPW | **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Multi-Colored medium to coarse GRAVEL	0.3		
		Gray-Brown fine to medium SAND, little Silt & fine to coarse Gravel			
1.0		Light-Brown fine to medium SAND, little Silt, trace fine Gravel	1.5		
2.0				1.2	Macro Core 0'-5'
3.0		Red-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel with seams of Silt (Very faint Petroleum Odor)			
4.0					
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry | **Depth to Water:** Dry | **Boring Dia.:** 2"

Rig: Geoprobe 540T | **Boring Depth:** 5' | **Page:** 1 of 1

ADDENDUM NUMBER 1

SOIL BORING LOG

Project: New Haven Regional Fire Academy **Boring:** GP-9

Location: 230 Ella Grasso Blvd - New Haven, CT **Inspector:** C. Knight

Client: State of CT DPW **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Multi-Colored medium to coarse GRAVEL	0.3		
		Gray-Brown fine to medium SAND, little Silt & fine to coarse Gravel			
1.0		Light-Brown fine to medium SAND, little Silt, trace fine Gravel	1.5		
2.0				6.7	Macro Core 0'-5'
3.0		Red-Brown to Gray-Brown fine to medium SAND, little Silt, trace fine to coarse Gravel & coarse Sand (Petroleum Odor)			
4.0					
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry **Depth to Water:** Dry **Boring Dia.:** 2"

Rig: Geoprobe 540T **Boring Depth:** 5' **Page:** 1 of 1

ADDENDUM NUMBER 1 PAGE 75 OF 185

SOIL BORING LOG

Project: New Haven Regional Fire Academy — **Boring:** GP-10

Location: 230 Ella Grasso Blvd - New Haven, CT — **Inspector:** C. Knight

Client: State of CT DPW — **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes

Depth (feet)	Symbol	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0		Ground Surface	0.0		
		Multi-Colored medium to coarse GRAVEL	0.4	0.8	Macro Core 0'-5'
1.0		Light-Brown fine to medium SAND, little Silt, trace fine Gravel	1.5		
2.0		Red-Brown fine to medium SAND & SILT, little fine to coarse Gravel			
3.0					
4.0		Dark-Gray to Black SILT, little fine Sand, trace Wood, Organics & Burned Material	4.0		
5.0			5.0		
6.0					
7.0		End of Boring at 5'			
		Soil Sample Collected from 2'-5'			
8.0					
9.0					
10.0					

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry — **Depth to Water:** Dry — **Boring Dia.:** 2"

Rig: Geoprobe 540T — **Boring Depth:** 5' — **Page:** 1 of 1

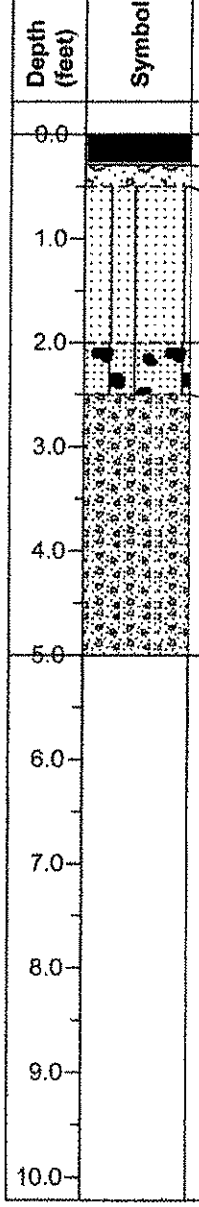
SOIL BORING LOG

Project: New Haven Regional Fire Academy — **Boring:** GP-11

Location: 230 Ella Grasso Blvd - New Haven, CT — **Inspector:** C. Knight

Client: State of CT DPW — **Date:** 6-3-08

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Truck, Portable & ATV/Backhoe-Mounted Geoprobes



Depth (feet)	Description	Depth (feet)	PID (ppm)	Sample Interval
0.0	Ground Surface	0.0		
	ASPHALT - 2"	0.3		
	Brown fine to medium SAND, little fine to coarse Gravel			
	Light-Brown fine to medium Sand, little Silt, trace fine Gravel	2.0		
	Red-Brown fine to medium SAND, little Silt & fine to coarse Gravel	2.5	2.1	Macro Core 0'-5'
	Dark-Brown to Black fine to medium SAND, little Silt & Wood fragments, trace fine to coarse Gravel & Asphalt fragments (FILL, Creosote Odor)	5.0		
	End of Boring at 5'			
	Soil Sample Collected from 2'-5'			

Soil Description: and = 35-50% some = 20-35% little = 10-20% trace = 1-10%

Driller: W. Lineberry — **Depth to Water:** Dry — **Boring Dia.:** 2"

Rig: Geoprobe 540T — **Boring Depth:** 5' — **Page:** 1 of 1

ADDENDUM NUMBER 1 PAGE 77 OF 185

APPENDIX B
Geoprobe Boring Soil Sample Laboratory Reports

Report Date:
12-Jun-08 12:37

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Laboratory Report

Logical Environmental Solutions
354 South River Road
Tolland, CT 06084
Attn: Cindy Knight

Project: New Haven Regional Fire Academy - CT
Project BI-FP-008A

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SA79633-01	GP-1 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-02	GP-2 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-03	GP-3 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-04	GP-4 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-05	GP-5 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-06	GP-6 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-07	GP-7 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-08	GP-8 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-09	GP-9 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-10	GP-10 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12
SA79633-11	GP-11 2' -5'	Soil	03-Jun-08 00:00	04-Jun-08 14:12

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received
All applicable NELAC requirements have been met.
Please note that this report contains 84 pages of analytical data plus Chain of Custody document(s).
This report may not be reproduced, except in full, without written approval from Spectrum Analytical, Inc.

Massachusetts Certification # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87600/E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011/MA012
New York # 11393/11840
Rhode Island # 98
USDA # S-51435
Vermont # VT-11393

Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Technical Reviewer's Initial:

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method or analyte indicated. Please refer to our "Quality" web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (NY-11840, FL-E87936 and NJ-MA012).

ADDENDUM NUMBER 1 PAGE 79 OF 185

CASE NARRATIVE:

The samples were received 3.9 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 2.0 degrees Celsius was used immediately upon receipt of the samples. Temperatures exceeding the +/- 2.0 degrees Celsius may affect sample results as stated in each specific method; samples collected for air analysis should be collected and submitted at ambient temperature.

CTDEP has published a list of analytical methods which provides a series of recommended protocols for the acquisition, analysis and reporting of analytical data in support of decisions being made utilizing the Reasonable Confidence Protocol (RCP). "Reasonable Confidence" can be established only for those methods published by the CTDEP in the RCP guidelines. The compounds and/or elements reported were specifically requested by the client on the Chain of Custody and in some cases may not include the full analyte list as defined in the method.

The CTDEP RCP requests that "all non-detects and all results below the reporting limit are reported as ND (Not Detected at the Specified Reporting Limit)". All non-detects and all results below the reporting limit are reported as "BRL" (Below the Reporting Limit) in this report.

If no reporting limits were specified or referenced on the chain-of-custody the laboratory's practical quantitation limits were applied.

Tetrachloro-m-xylene is recommended as a surrogate by the CTDEP RCP for the following SW846 Methods 8081, 8082 and 8151. Spectrum Analytical, Inc. uses Tetrachloro-m-xylene as the Internal Standard for these methods and Dibromooctaflourobiphenyl as the surrogate.

Required site-specific Matrix Spike/Matrix Spike Duplicate (MS/MSD) must be requested by the client and sufficient sample must be submitted for the additional analyses. Samples submitted with insufficient volume/weight will not be analyzed for site specific MS/MSD, however a batch MS/MSD may be analyzed from a non-site specific sample.

According to CTDEP RCP Quality Assurance and Quality Control Requirements for VOCs by method 8260, SW-846 version 1, 7/28/05 Table 1A, recovery for some VOC analytes have been deemed potentially difficult. Although they may still be within the recommended 70%-130% recovery range, a range has been set based on historical control limits.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

SW 846 8260B

Laboratory Control Samples:

8060487-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

Analyte out of acceptance range.

trans-1,4-Dichloro-2-butene

8060487-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

8060691-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

8060691-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

2,2-Dichloropropane

SW 846 8260B

Samples:

SA79633-06 *GP-6 2'-5'*

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.

1,2-Dichloroethane-d4

SW846 1312/6010B

Laboratory Control Samples:

8060584-BSD1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

Arsenic

Analyte out of acceptance range.

Chromium
Lead

Duplicates:

8060584-DUP1 *Source: SA79639-01*

Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.

Lead

SW846 6010B

Spikes:

8060461-MS1 *Source: SA79633-02*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Lead

SW846 8270C

Laboratory Control Samples:

8060451-BS1

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

N-Nitrosodimethylamine

SW846 8270C

Samples:

SA79633-01 *GP-1 2'-5'*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SA79633-05 *GP-5 2'-5'*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SA79633-06 *GP-6 2'-5'*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SA79633-09 *GP-9 2'-5'*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

SA79633-11 *GP-11 2'-5'*

Elevated Reporting Limits due to the presence of high levels of non-target analytes.

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds						Initial weight: 4.96 g					
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.5	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	55.2	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.5	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.5	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.0	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	55.2	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	27.6	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.0	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.5	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.0	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.0	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.5	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.0	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	55.2	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	55.2	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	55.2	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.5	1	"	"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

ADDENDUM NUMBER 1 PAGE 83 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-01				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds						Initial weight: 4.96 g					
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.5	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.5	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.5	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.5	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.0	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.5	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	55.2	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.5	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	55.2	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	110	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	27.6	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2760	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*123*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*99*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	1710	10	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	1710	10	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	1710	10	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	1710	10	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	1710	10	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	1710	10	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	1710	10	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	1710	10	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	1710	10	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	1710	10	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	1710	10	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	1710	10	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	1710	10	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	1710	10	"	"	"	"	"

ADDENDUM NUMBER 1 PAGE 64 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 2' -5' SA79633-01	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	1710	10	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	1710	10	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	1710	10	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	1710	10	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	1710	10	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	1710	10	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	1710	10	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	1710	10	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	1710	10	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	1710	10	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	1710	10	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	1710	10	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	1710	10	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	1710	10	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	1710	10	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	1710	10	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	1710	10	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	1710	10	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	1710	10	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	1710	10	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	1710	10	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	1710	10	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	1710	10	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	1710	10	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	1710	10	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	1710	10	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	1710	10	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	1710	10	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	1710	10	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	1710	10	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	1710	10	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	1710	10	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	6830	10	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	6830	10	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	1710	10	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	1710	10	"	"	"	"	"

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ADDENDUM NUMBER 1 PAGE 85 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 2' -5' SA79633-01	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	1710	10	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	1710	10	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	1710	10	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	1710	10	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	1710	10	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	1710	10	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*54*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*58*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*52*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*56*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	*57*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*55*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	20.8	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	20.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	20.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11096-82-5	PCB 1260	43.3		µg/kg dry	20.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	20.8	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*86*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*116*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	138	10	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	138	10	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	138	10	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	138	10	"	"	"	"	"
M009800000	Motor Oil	BRL		mg/kg dry	138	10	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	138	10	"	"	"	"	"
	Unidentified	1,520		mg/kg dry	138	10	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	138	10	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,520		mg/kg dry	138	10	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,520		mg/kg dry	138	10	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*91*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 86 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-1 2' -5' SA79633-01	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.34	1	SW846 6010B	10-Jun-08	11-Jun-08	8060461	SA
7440-38-2	Arsenic	1.80		mg/kg dry	1.34	1	"	"	"	"	"
7440-39-3	Barium	54.0		mg/kg dry	0.894	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.492	1	"	"	11-Jun-08	"	SA
7440-47-3	Chromium	6.95		mg/kg dry	0.894	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.183		mg/kg dry	0.0311	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	133		mg/kg dry	1.34	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.34	1	"	"	11-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0216		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0403		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	95.5		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds						Initial weight: 5.19 g					
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	6.0	1	SW 846 8260B	06-Jun-08	06-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	59.8	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.0	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	6.0	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	12.0	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	59.8	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	29.9	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	12.0	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	6.0	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	12.0	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	12.0	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.0	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	12.0	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	59.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	59.8	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	59.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	6.0	1	"	"	"	"	"

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds						Initial weight: 5.19 g					
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.0	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.0	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.0	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.0	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	12.0	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	6.0	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	59.8	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.0	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	59.8	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	120	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	29.9	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2990	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*121*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*92*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	366	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	366	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	366	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	366	1	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	366	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	366	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	366	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	366	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	366	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	366	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	366	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	366	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	366	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	366	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 89 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	366	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	366	1	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	366	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	821		µg/kg dry	366	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	366	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	366	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	366	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	366	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	366	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	366	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	366	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	366	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	366	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
91-94-1	3,3´-Dichlorobenzidine	BRL		µg/kg dry	366	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	366	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	366	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	366	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	366	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	366	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	366	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	366	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	366	1	"	"	"	"	"
206-44-0	Fluoranthene	483		µg/kg dry	366	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	366	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	366	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	366	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	366	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	366	1	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	366	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	366	1	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	366	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	366	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	366	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	366	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1460	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1460	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	366	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	366	1	"	"	"	"	"

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ADDENDUM NUMBER 1 PAGE 90 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	366	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	366	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	366	1	"	"	"	"	"
129-00-0	Pyrene	543		µg/kg dry	366	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	366	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	366	1	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	366	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*47*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*46*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*47*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*51*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	*47*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*48*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.9	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	21.9	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.9	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.9	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.9	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.9	1	"	"	"	"	"
11096-82-5	PCB 1260	121		µg/kg dry	21.9	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.9	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.9	1	"	"	"	"	"
Surrogate recoveries:											
19388-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*94*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*91*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.8	1	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.8	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.8	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.8	1	"	"	"	"	"
M00800000	Motor Oil	BRL		mg/kg dry	14.8	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.8	1	"	"	"	"	"
	Unidentified	81.7		mg/kg dry	14.8	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	14.8	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	81.7		mg/kg dry	14.8	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	81.7		mg/kg dry	14.8	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*50*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-2 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-02				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	2.53		mg/kg dry	1.57	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	6.74		mg/kg dry	1.57	1	"	"	"	"	"
7440-39-3	Barium	246		mg/kg dry	1.05	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	2.04		mg/kg dry	0.577	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	9.60		mg/kg dry	1.05	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.275		mg/kg dry	0.0328	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	285		mg/kg dry	1.57	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	1.75		mg/kg dry	1.57	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	BRL		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0060	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0156		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	89.4		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.02 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.7	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	56.8	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.7	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.4	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	56.8	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	28.4	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.4	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.4	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.4	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.4	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	56.8	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	56.8	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	56.8	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.7	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 93 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.02 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.7	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.7	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.7	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.4	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	56.8	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	56.8	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	114	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	28.4	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2840	1	"	"	"	"	"
Surrogate recoveries											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*125*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	350	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	350	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	350	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	350	1	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	350	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	350	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	350	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	350	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	350	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	350	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	350	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	350	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	350	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	350	1	"	"	"	"	"

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ADDENDUM NUMBER 1

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	350	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	350	1	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	350	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	350	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	350	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	350	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	350	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	350	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	350	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	350	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	350	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	350	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	350	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	350	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	350	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	350	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	350	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	350	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	350	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	350	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	350	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	350	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	350	1	"	"	"	"	"
206-44-0	Fluoranthene	656		µg/kg dry	350	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	350	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	350	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	350	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	350	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	350	1	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	350	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	350	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	350	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	350	1	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	350	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	350	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	350	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	350	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1400	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1400	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	350	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	350	1	"	"	"	"	"

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ADDENDUM NUMBER 1 PAGE 95 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-03				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	350	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
85-01-8	Phenanthrene	452		µg/kg dry	350	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	350	1	"	"	"	"	"
129-00-0	Pyrene	630		µg/kg dry	350	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	350	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	350	1	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	350	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*60*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*61*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*57*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*64*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-dl4*	*61*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*66*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.4	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	IMR
11104-28-2	PCB 1221	BRL		µg/kg dry	21.4	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.4	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.4	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.4	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.4	1	"	"	"	"	"
11096-82-5	PCB 1260	38.6		µg/kg dry	21.4	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.4	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.4	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*100*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*95*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.1	1	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.1	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.1	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.1	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	14.1	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.1	1	"	"	"	"	"
	Unidentified	76.8		mg/kg dry	14.1	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	14.1	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	76.8		mg/kg dry	14.1	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	76.8		mg/kg dry	14.1	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*54*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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APPENDUM NUMBER 1 PAGE 96 OF 160

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-3 2' -5' SA79633-03	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.44	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	3.51		mg/kg dry	1.44	1	"	"	12-Jun-08	"	"
7440-39-3	Barium	47.0		mg/kg dry	0.961	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	1.72		mg/kg dry	0.528	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	7.74		mg/kg dry	0.961	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.0856		mg/kg dry	0.0316	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	128		mg/kg dry	1.44	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	1.69		mg/kg dry	1.44	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0197		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0296		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	93.5		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 2' -5' SA79633-04	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.95 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	57.5	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.8	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	57.5	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	28.8	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.5	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	57.5	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	57.5	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	57.5	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.8	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 98 OF 184

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.95 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.8	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	57.5	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	57.5	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	115	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	28.8	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2880	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*98*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*126*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	349	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	349	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	349	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	349	1	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	349	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	349	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	349	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	349	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	463		µg/kg dry	349	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	478		µg/kg dry	349	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	349	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	400		µg/kg dry	349	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	349	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	349	1	"	"	"	"	"

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ADDENDUM NUMBER 1

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 2' -5' SA79633-04	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	349	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	349	1	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	349	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	349	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	349	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	349	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	349	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	349	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	349	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	349	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	349	1	"	"	"	"	"
218-01-9	Chrysene	407		µg/kg dry	349	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	349	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	349	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	349	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	349	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	349	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	349	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	349	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	349	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	349	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	349	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	349	1	"	"	"	"	"
206-44-0	Fluoranthene	690		µg/kg dry	349	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	349	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	349	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	349	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	349	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	349	1	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	349	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	349	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	349	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	349	1	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	349	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	349	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	349	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	349	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1400	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1400	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	349	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	349	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	349	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
85-01-8	Phenanthrene	358		µg/kg dry	349	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	349	1	"	"	"	"	"
129-00-0	Pyrene	760		µg/kg dry	349	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	349	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	349	1	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	349	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*61*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*60*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*58*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*65*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-dl4*	*62*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*69*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.0	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	21.0	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.0	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.0	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.0	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.0	1	"	"	"	"	"
11096-82-5	PCB 1260	122		µg/kg dry	21.0	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.0	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.0	1	"	"	"	"	"
Surrogate recoveries.											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*142*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*85*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.1	1	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.1	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.1	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.1	1	"	"	"	"	"
M69800000	Motor Oil	BRL		mg/kg dry	14.1	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.1	1	"	"	"	"	"
	Unidentified	136		mg/kg dry	14.1	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	14.1	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	136		mg/kg dry	14.1	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	136		mg/kg dry	14.1	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*53*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-4 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-04				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.47	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	6.14		mg/kg dry	1.47	1	"	"	"	"	"
7440-39-3	Barium	96.4		mg/kg dry	0.978	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	1.71		mg/kg dry	0.538	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	8.09		mg/kg dry	0.978	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.265		mg/kg dry	0.0314	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	795		mg/kg dry	1.47	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.47	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0185		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.108		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	93.5		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

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ADDENDUM NUMBER 1 PAGE 102 OF 188

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.82 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.9	1	SW 846 8260B	10-Jun-08	10-Jun-08	8060691	RLJ
67-64-1	Acetone	BRL		µg/kg dry	58.6	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.9	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	58.6	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	29.3	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.7	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	58.6	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	58.6	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	58.6	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.9	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 103 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.82 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.9	1	SW 846 8260B	10-Jun-08	10-Jun-08	8060691	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.9	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.9	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.7	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	58.6	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	58.6	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	117	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	29.3	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2930	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*96*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*116*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*98*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	695	2	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	695	2	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	695	2	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	695	2	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	695	2	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	695	2	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	695	2	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	695	2	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	695	2	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	695	2	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	695	2	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	695	2	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	695	2	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	695	2	"	"	"	"	"

ADDENDUM NUMBER 1 PAGE 104 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	695	2	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	695	2	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	695	2	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	695	2	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	695	2	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	695	2	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	695	2	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	695	2	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	695	2	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	695	2	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	695	2	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	695	2	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	695	2	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	695	2	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	695	2	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	695	2	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	695	2	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	695	2	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	695	2	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	695	2	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	695	2	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	695	2	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	695	2	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	695	2	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	695	2	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	695	2	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	695	2	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	695	2	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	695	2	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	695	2	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	695	2	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	695	2	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	695	2	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	695	2	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	695	2	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	695	2	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	695	2	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	2780	2	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	2780	2	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	695	2	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	695	2	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	695	2	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	695	2	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	695	2	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	695	2	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	695	2	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	695	2	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	695	2	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*53*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*55*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*51*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*56*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	*53*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*56*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	19.4	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	19.4	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	19.4	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	19.4	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	19.4	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	19.4	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	19.4	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	19.4	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	19.4	1	"	"	"	"	"
Surrogate recoveries.											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*84*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*99*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.0	1	+GT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.0	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.0	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.0	1	"	"	"	"	"
M09500000	Motor Oil	BRL		mg/kg dry	14.0	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.0	1	"	"	"	"	"
	Unidentified	183		mg/kg dry	14.0	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	14.0	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	183		mg/kg dry	14.0	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	183		mg/kg dry	14.0	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*51*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 106 OF 485

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-5 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-05				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.37	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	BRL		mg/kg dry	1.37	1	"	"	"	"	"
7440-39-3	Barium	21.5		mg/kg dry	0.914	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.502	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	4.06		mg/kg dry	0.914	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	BRL		mg/kg dry	0.0306	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	15.5		mg/kg dry	1.37	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.37	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0178		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0294		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	93.8		%		1	SM2540 G Mod	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.83 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	6.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	68.3	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.8	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	6.8	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	13.7	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	68.3	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	34.1	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	13.7	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	6.8	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	13.7	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	13.7	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.8	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	13.7	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	68.3	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	68.3	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	68.3	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	6.8	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 108 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 4.83 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.8	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.8	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	13.7	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	6.8	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	68.3	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.8	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	68.3	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	137	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	34.1	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	3410	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*101*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*131*	SGC	*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	749	2	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	749	2	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	749	2	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	749	2	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	749	2	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	749	2	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	749	2	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	749	2	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	749	2	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	749	2	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	749	2	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	749	2	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	749	2	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	749	2	"	"	"	"	"

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ADDENDUM NUMBER 1

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R06								
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	749	2	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	749	2	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	749	2	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	749	2	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	749	2	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	749	2	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	749	2	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	749	2	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	749	2	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	749	2	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	749	2	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	749	2	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	749	2	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	749	2	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	749	2	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	749	2	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	749	2	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	749	2	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	749	2	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	749	2	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	749	2	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	749	2	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	749	2	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	749	2	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	749	2	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	749	2	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	749	2	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	749	2	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	749	2	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	749	2	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	749	2	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	749	2	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	749	2	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	749	2	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	749	2	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	749	2	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	749	2	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	3000	2	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	3000	2	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	749	2	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	749	2	"	"	"	"	"

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ADDENDUM NUMBER 1 PAGE 110 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-06				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	749	2	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	749	2	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	749	2	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	749	2	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	749	2	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	749	2	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	749	2	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*72*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*74*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*72*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*79*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-dl4*	*74*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*79*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.2	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	21.2	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.2	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.2	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.2	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.2	1	"	"	"	"	"
11096-82-5	PCB 1260	72.9		µg/kg dry	21.2	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.2	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.2	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*104*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*114*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	15.1	1	+CT ETPH	06-Jun-08	10-Jun-08	8060460	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	15.1	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	15.1	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	15.1	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	15.1	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	15.1	1	"	"	"	"	"
	Unidentified	221		mg/kg dry	15.1	1	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	15.1	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	221		mg/kg dry	15.1	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	221		mg/kg dry	15.1	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*51*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 111 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-6 2' -5' SA79633-06	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.62	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	2.50		mg/kg dry	1.62	1	"	"	"	"	"
7440-39-3	Barium	109		mg/kg dry	1.08	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.593	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	10.5		mg/kg dry	1.08	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.0811		mg/kg dry	0.0338	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	73.0		mg/kg dry	1.62	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.62	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0322		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0260		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	86.0		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds						Initial weight: 5.22 g					
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.9	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	58.7	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.9	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	58.7	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	29.3	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.9	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.7	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	58.7	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	58.7	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	58.7	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.9	1	"	"	"	"	"

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ADDENDUM NUMBER 1 PAGE 113 OF 153

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds						Initial weight: 5.22 g					
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.9	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.9	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.9	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.9	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.7	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.9	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	58.7	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.9	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	58.7	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	117	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	29.3	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2930	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*100*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*119*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	358	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	358	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	358	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	358	1	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	358	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	358	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	358	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	358	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	358	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	358	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	358	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	358	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	358	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	358	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 114 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 2' -5' SA79633-07	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	358	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	358	1	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	358	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	358	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	358	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	358	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	358	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	358	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	358	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	358	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	358	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	358	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	358	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	358	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	358	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	358	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	358	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	358	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	358	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	358	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	358	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	358	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	358	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	358	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	358	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	358	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	358	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	358	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	358	1	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	358	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	358	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	358	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	358	1	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	358	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	358	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	358	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	358	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1430	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1430	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	358	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	358	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 115 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-07				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	358	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	358	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	358	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	358	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	358	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	358	1	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	358	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*74*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*75*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*72*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*79*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	*81*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*85*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.3	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	21.3	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.3	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.3	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.3	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.3	1	"	"	"	"	"
11096-82-5	PCB 1260	BRL		µg/kg dry	21.3	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.3	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.3	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*36*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*65*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.4	1	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.4	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.4	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.4	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	14.4	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.4	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	14.4	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	14.4	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	14.4	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	14.4	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*67*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 106 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-7 2' -5' SA79633-07	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.59	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	3.45		mg/kg dry	1.59	1	"	"	"	"	"
7440-39-3	Barium	57.1		mg/kg dry	1.06	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.586	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	22.8		mg/kg dry	1.06	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.175		mg/kg dry	0.0327	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	64.9		mg/kg dry	1.59	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.59	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0309		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	0.0115		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0388		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	90.1		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 117 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8 2' -5' SA79633-08	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds						Initial weight: 5.1 g					
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	58.4	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.8	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	58.4	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	29.2	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.7	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.7	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	58.4	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	58.4	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	58.4	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.8	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 118 OF 181

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.1 g					
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-88-3	Toluene	12.5		µg/kg dry	5.8	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.8	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.7	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	58.4	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	58.4	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	117	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	29.2	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2920	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*101*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	353	1	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	353	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	353	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	353	1	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	353	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	353	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	353	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	353	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	353	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	353	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	353	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	353	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	353	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	353	1	"	"	"	"	"

ADDENDUM NUMBER 1 PAGE 119 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8 2' -5' SA79633-08	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	353	1	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	353	1	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	353	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	353	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	353	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	353	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	353	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	353	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	353	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	353	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	353	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	353	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	353	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	353	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
91-94-1	3,3`-Dichlorobenzidine	BRL		µg/kg dry	353	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	353	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	353	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	353	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	353	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	353	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	353	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	353	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	353	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	353	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	353	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	353	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	353	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	353	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	353	1	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	353	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	353	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	353	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	353	1	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	353	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	353	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	353	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	353	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1410	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1410	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	353	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	353	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 120 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	353	1	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	353	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	353	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	353	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	353	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	353	1	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	353	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*67*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*71*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*64*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*73*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-dl4*	*71*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*74*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.5	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	21.5	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.5	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.5	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.5	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.5	1	"	"	"	"	"
11096-82-5	PCB 1260	26.7		µg/kg dry	21.5	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.5	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.5	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*84*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*102*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.2	1	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.2	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.2	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.2	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	14.2	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.2	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	14.2	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	14.2	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	14.2	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	14.2	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*55*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 124 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-8 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-08				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.51	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	BRL		mg/kg dry	1.51	1	"	"	"	"	"
7440-39-3	Barium	34.7		mg/kg dry	1.00	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.552	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	9.42		mg/kg dry	1.00	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	BRL		mg/kg dry	0.0316	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	8.71		mg/kg dry	1.51	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.51	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0227		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0152		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	91.3		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.16 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.7	1	SW 846 8260B	06-Jun-08	06-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	57.5	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.7	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	57.5	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	28.7	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.5	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.7	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.5	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	57.5	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	57.5	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	57.5	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.7	1	"	"	"	"	"

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 2' -5' SA79633-09	B1-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds					Initial weight: 5.16 g						
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.7	1	SW 846 8260B	06-Jun-08	06-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.7	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.7	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.7	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.5	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.7	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	57.5	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.7	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	57.5	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	115	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	28.7	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2870	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*99*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*122*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*100*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	1770	10	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	1770	10	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	1770	10	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	1770	10	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	1770	10	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	1770	10	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	1770	10	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	1770	10	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	1770	10	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	1770	10	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	1770	10	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	1770	10	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	1770	10	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	1770	10	"	"	"	"	"

ADDENDUM NUMBER 1 PAGE 124 OF 183

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 2' -5' SA79633-09	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	1770	10	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	1770	10	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	1770	10	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	1770	10	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	1770	10	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	1770	10	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	1770	10	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	1770	10	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	1770	10	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	1770	10	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	1770	10	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	1770	10	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	1770	10	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	1770	10	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	1770	10	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	1770	10	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	1770	10	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	1770	10	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	1770	10	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	1770	10	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	1770	10	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	1770	10	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	1770	10	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	1770	10	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	1770	10	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	1770	10	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	1770	10	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	1770	10	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	1770	10	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	1770	10	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	1770	10	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	1770	10	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	7080	10	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	7080	10	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	1770	10	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	1770	10	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 125 OF 125

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	1770	10	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	1770	10	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	1770	10	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	1770	10	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	1770	10	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	1770	10	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*56*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*58*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*48*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*57*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	*56*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*57*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	21.8	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	21.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	21.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	21.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	21.8	1	"	"	"	"	"
11097-69-1	PCB 1254	BRL		µg/kg dry	21.8	1	"	"	"	"	"
11096-82-5	PCB 1260	97.2		µg/kg dry	21.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	21.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	21.8	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*98*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*116*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	71.3	5	^CT ETPH	06-Jun-08	10-Jun-08	8060459	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	71.3	5	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	71.3	5	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	71.3	5	"	"	"	"	"
M009800000	Motor Oil	BRL		mg/kg dry	71.3	5	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	71.3	5	"	"	"	"	"
	Unidentified	1,590		mg/kg dry	71.3	5	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	71.3	5	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,590		mg/kg dry	71.3	5	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,590		mg/kg dry	71.3	5	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*69*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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ADDENDUM NUMBER 1

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-9 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-09				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.57	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	BRL		mg/kg dry	1.57	1	"	"	"	"	"
7440-39-3	Barium	27.7		mg/kg dry	1.05	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.576	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	5.27		mg/kg dry	1.05	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	BRL		mg/kg dry	0.0325	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	10.2		mg/kg dry	1.57	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.57	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0106		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	0.0251		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	91.6		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 2' -5' SA79633-10	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds						Initial weight: 5.14 g					
Prepared by method SW846 5035A Soil (low level)											
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	6.1	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	60.9	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	6.1	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	6.1	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	12.2	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	60.9	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	30.5	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	12.2	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	6.1	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	12.2	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	12.2	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	6.1	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	12.2	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	60.9	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	60.9	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	60.9	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	6.1	1	"	"	"	"	"

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ADDENDUM NUMBER 1

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 2' -5'	B1-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds							Initial weight: 5.14 g				
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	6.1	1	SW 846 8260B	05-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-88-3	Toluene	11.2		µg/kg dry	6.1	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	6.1	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	6.1	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	6.1	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	12.2	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	6.1	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	60.9	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	6.1	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	6.1	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	6.1	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	6.1	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	60.9	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	122	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	30.5	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	3050	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*100*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*123*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*100*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	365	1	SW846 8270C	05-Jun-08	09-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	365	1	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	365	1	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	365	1	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	365	1	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	365	1	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	365	1	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	365	1	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	365	1	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	365	1	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	365	1	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	365	1	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	365	1	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	365	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 179 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	365	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	365	1	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	365	1	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	365	1	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	365	1	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	365	1	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	365	1	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	365	1	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	365	1	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	365	1	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	365	1	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	365	1	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	365	1	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	365	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	365	1	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	365	1	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	365	1	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	365	1	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	365	1	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	365	1	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	365	1	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	365	1	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	365	1	"	"	"	"	"
206-44-0	Fluoranthene	BRL		µg/kg dry	365	1	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	365	1	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	365	1	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	365	1	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	365	1	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	365	1	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	365	1	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	365	1	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	365	1	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	365	1	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	365	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	365	1	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	365	1	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	365	1	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	1460	1	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	1460	1	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	365	1	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	365	1	"	"	"	"	"

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ADDENDUM NUMBER 1 PAGE 130 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-10				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GC/MS											
Semivolatile Organic Compounds by SW846 8270C											
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	365	1	SW846 8270C	06-Jun-08	09-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	365	1	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	365	1	"	"	"	"	"
129-00-0	Pyrene	BRL		µg/kg dry	365	1	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	365	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	365	1	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	365	1	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	*66*		*30-130 %*			"	"	"	"	"
367-12-4	*2-Fluorophenol*	*71*		*15-110 %*			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	*67*		*30-130 %*			"	"	"	"	"
4165-62-2	*Phenol-d5*	*73*		*15-110 %*			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	*66*		*30-130 %*			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	*74*		*15-110 %*			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	20.8	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	20.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	20.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11097-69-1	PCB 1254	227		µg/kg dry	20.8	1	"	"	"	"	"
11096-82-5	PCB 1260	38.0		µg/kg dry	20.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	20.8	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	*114*		*30-150 %*			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	*116*		*30-150 %*			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	14.7	1	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	14.7	1	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	14.7	1	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	14.7	1	"	"	"	"	"
M09800000	Motor Oil	BRL		mg/kg dry	14.7	1	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	14.7	1	"	"	"	"	"
	Unidentified	BRL		mg/kg dry	14.7	1	"	"	"	"	"
	Other Oil	BRL		mg/kg dry	14.7	1	"	"	"	"	"
	Total Petroleum Hydrocarbons	BRL		mg/kg dry	14.7	1	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	14.7	1	"	"	"	"	"
Surrogate recoveries:											
3386-33-2	*1-Chlorooctadecane*	*53*		*50-150 %*			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 131 OF 181

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-10 2' -5' SA79633-10	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.67	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	BRL		mg/kg dry	1.67	1	"	"	"	"	"
7440-39-3	Barium	58.7		mg/kg dry	1.12	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	1.43		mg/kg dry	0.614	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	13.6		mg/kg dry	1.12	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	BRL		mg/kg dry	0.0327	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	9.34		mg/kg dry	1.67	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.67	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0182		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060585	JMN
7439-92-1	Lead	BRL		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	88.9		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 2' -5' SA79633-11	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
	VOC Extraction	Field extracted		N/A		1	VOC Soil Extraction	05-Jun-08	05-Jun-08	8060443	JB
Volatile Organic Compounds											
Prepared by method SW846 5035A Soil (low level)						Initial weight: 5.24 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg dry	5.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
67-64-1	Acetone	BRL		µg/kg dry	58.0	1	"	"	"	"	"
107-13-1	Acrylonitrile	BRL		µg/kg dry	5.8	1	"	"	"	"	"
71-43-2	Benzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-86-1	Bromobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-97-5	Bromochloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-27-4	Bromodichloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-25-2	Bromoform	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-83-9	Bromomethane	BRL		µg/kg dry	11.6	1	"	"	"	"	"
78-93-3	2-Butanone (MEK)	BRL		µg/kg dry	58.0	1	"	"	"	"	"
104-51-8	n-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
135-98-8	sec-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
98-06-6	tert-Butylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-15-0	Carbon disulfide	BRL		µg/kg dry	29.0	1	"	"	"	"	"
56-23-5	Carbon tetrachloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-90-7	Chlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-00-3	Chloroethane	BRL		µg/kg dry	11.6	1	"	"	"	"	"
67-66-3	Chloroform	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-87-3	Chloromethane	BRL		µg/kg dry	11.6	1	"	"	"	"	"
95-49-8	2-Chlorotoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-43-4	4-Chlorotoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
96-12-8	1,2-Dibromo-3-chloropropane	BRL		µg/kg dry	11.6	1	"	"	"	"	"
124-48-1	Dibromochloromethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL		µg/kg dry	5.8	1	"	"	"	"	"
74-95-3	Dibromomethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-71-8	Dichlorodifluoromethane (Freon12)	BRL		µg/kg dry	11.6	1	"	"	"	"	"
75-34-3	1,1-Dichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
107-06-2	1,2-Dichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-35-4	1,1-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
78-87-5	1,2-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
142-28-9	1,3-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
594-20-7	2,2-Dichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
563-58-6	1,1-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
100-41-4	Ethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL		µg/kg dry	58.0	1	"	"	"	"	"
98-82-8	Isopropylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
99-87-6	4-Isopropyltoluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL		µg/kg dry	58.0	1	"	"	"	"	"
75-09-2	Methylene chloride	BRL		µg/kg dry	58.0	1	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	5.8	1	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

APPENDUM NUMBER 1 PAGE 133 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Volatile Organic Compounds											
Volatile Organic Compounds						Initial weight: 5.24 g					
Prepared by method SW846 5035A Soil (low level)											
103-65-1	n-Propylbenzene	BRL		µg/kg dry	5.8	1	SW 846 8260B	06-Jun-08	08-Jun-08	8060487	RLJ
100-42-5	Styrene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
630-20-6	1,1,1,2-Tetrachloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
127-18-4	Tetrachloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-88-3	Toluene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
87-61-6	1,2,3-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-70-3	1,3,5-Trichlorobenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
79-01-6	Trichloroethene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL		µg/kg dry	5.8	1	"	"	"	"	"
96-18-4	1,2,3-Trichloropropane	BRL		µg/kg dry	5.8	1	"	"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-01-4	Vinyl chloride	BRL		µg/kg dry	5.8	1	"	"	"	"	"
1330-20-7	m,p-Xylene	BRL		µg/kg dry	11.6	1	"	"	"	"	"
95-47-6	o-Xylene	BRL		µg/kg dry	5.8	1	"	"	"	"	"
109-99-9	Tetrahydrofuran	BRL		µg/kg dry	58.0	1	"	"	"	"	"
60-29-7	Ethyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
994-05-8	Tert-amyl methyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
637-92-3	Ethyl tert-butyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
108-20-3	Di-isopropyl ether	BRL		µg/kg dry	5.8	1	"	"	"	"	"
75-65-0	Tert-Butanol / butyl alcohol	BRL		µg/kg dry	58.0	1	"	"	"	"	"
123-91-1	1,4-Dioxane	BRL		µg/kg dry	116	1	"	"	"	"	"
110-57-6	trans-1,4-Dichloro-2-butene	BRL		µg/kg dry	29.0	1	"	"	"	"	"
64-17-5	Ethanol	BRL		µg/kg dry	2900	1	"	"	"	"	"
Surrogate recoveries:											
460-00-4	*4-Bromofluorobenzene*	*102*		*70-130 %*			"	"	"	"	"
2037-26-5	*Toluene-d8*	*99*		*70-130 %*			"	"	"	"	"
17060-07-0	*1,2-Dichloroethane-d4*	*117*		*70-130 %*			"	"	"	"	"
1868-53-7	*Dibromofluoromethane*	*102*		*70-130 %*			"	"	"	"	"
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R08								
Prepared by method SW846 3550B											
83-32-9	Acenaphthene	BRL		µg/kg dry	1800	10	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
208-96-8	Acenaphthylene	BRL		µg/kg dry	1800	10	"	"	"	"	"
62-53-3	Aniline	BRL		µg/kg dry	1800	10	"	"	"	"	"
120-12-7	Anthracene	BRL		µg/kg dry	1800	10	"	"	"	"	"
1912-24-9	Atrazine	BRL		µg/kg dry	1800	10	"	"	"	"	"
103-33-3	Azobenzene/Diphenyldiazine	BRL		µg/kg dry	1800	10	"	"	"	"	"
92-87-5	Benzidine	BRL		µg/kg dry	1800	10	"	"	"	"	"
56-55-3	Benzo (a) anthracene	BRL		µg/kg dry	1800	10	"	"	"	"	"
50-32-8	Benzo (a) pyrene	BRL		µg/kg dry	1800	10	"	"	"	"	"
205-99-2	Benzo (b) fluoranthene	BRL		µg/kg dry	1800	10	"	"	"	"	"
191-24-2	Benzo (g,h,i) perylene	BRL		µg/kg dry	1800	10	"	"	"	"	"
207-08-9	Benzo (k) fluoranthene	BRL		µg/kg dry	1800	10	"	"	"	"	"
65-85-0	Benzoic acid	BRL		µg/kg dry	1800	10	"	"	"	"	"
100-51-6	Benzyl alcohol	BRL		µg/kg dry	1800	10	"	"	"	"	"

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 2' -5' SA79633-11	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
111-91-1	Bis(2-chloroethoxy)methane	BRL		µg/kg dry	1800	10	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
111-44-4	Bis(2-chloroethyl)ether	BRL		µg/kg dry	1800	10	"	"	"	"	"
108-60-1	Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	1800	10	"	"	"	"	"
117-81-7	Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	1800	10	"	"	"	"	"
101-55-3	4-Bromophenyl phenyl ether	BRL		µg/kg dry	1800	10	"	"	"	"	"
85-68-7	Butyl benzyl phthalate	BRL		µg/kg dry	1800	10	"	"	"	"	"
86-74-8	Carbazole	BRL		µg/kg dry	1800	10	"	"	"	"	"
59-50-7	4-Chloro-3-methylphenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
106-47-8	4-Chloroaniline	BRL		µg/kg dry	1800	10	"	"	"	"	"
91-58-7	2-Chloronaphthalene	BRL		µg/kg dry	1800	10	"	"	"	"	"
95-57-8	2-Chlorophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
7005-72-3	4-Chlorophenyl phenyl ether	BRL		µg/kg dry	1800	10	"	"	"	"	"
218-01-9	Chrysene	BRL		µg/kg dry	1800	10	"	"	"	"	"
53-70-3	Dibenzo (a,h) anthracene	BRL		µg/kg dry	1800	10	"	"	"	"	"
132-64-9	Dibenzofuran	BRL		µg/kg dry	1800	10	"	"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
91-94-1	3,3'-Dichlorobenzidine	BRL		µg/kg dry	1800	10	"	"	"	"	"
120-83-2	2,4-Dichlorophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
84-66-2	Diethyl phthalate	BRL		µg/kg dry	1800	10	"	"	"	"	"
131-11-3	Dimethyl phthalate	BRL		µg/kg dry	1800	10	"	"	"	"	"
105-67-9	2,4-Dimethylphenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
84-74-2	Di-n-butyl phthalate	BRL		µg/kg dry	1800	10	"	"	"	"	"
534-52-1	4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
51-28-5	2,4-Dinitrophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
121-14-2	2,4-Dinitrotoluene	BRL		µg/kg dry	1800	10	"	"	"	"	"
606-20-2	2,6-Dinitrotoluene	BRL		µg/kg dry	1800	10	"	"	"	"	"
117-84-0	Di-n-octyl phthalate	BRL		µg/kg dry	1800	10	"	"	"	"	"
206-44-0	Fluoranthene	2,060		µg/kg dry	1800	10	"	"	"	"	"
86-73-7	Fluorene	BRL		µg/kg dry	1800	10	"	"	"	"	"
118-74-1	Hexachlorobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
87-68-3	Hexachlorobutadiene	BRL		µg/kg dry	1800	10	"	"	"	"	"
77-47-4	Hexachlorocyclopentadiene	BRL		µg/kg dry	1800	10	"	"	"	"	"
67-72-1	Hexachloroethane	BRL		µg/kg dry	1800	10	"	"	"	"	"
193-39-5	Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	1800	10	"	"	"	"	"
90-12-0	1-Methylnaphthalene	BRL		µg/kg dry	1800	10	"	"	"	"	"
78-59-1	Isophorone	BRL		µg/kg dry	1800	10	"	"	"	"	"
91-57-6	2-Methylnaphthalene	BRL		µg/kg dry	1800	10	"	"	"	"	"
95-48-7	2-Methylphenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
108-39-4, 106-44-5	3 & 4-Methylphenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
91-20-3	Naphthalene	BRL		µg/kg dry	1800	10	"	"	"	"	"
88-74-4	2-Nitroaniline	BRL		µg/kg dry	1800	10	"	"	"	"	"
99-09-2	3-Nitroaniline	BRL		µg/kg dry	1800	10	"	"	"	"	"
100-01-6	4-Nitroaniline	BRL		µg/kg dry	7210	10	"	"	"	"	"
98-95-3	Nitrobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
88-75-5	2-Nitrophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
100-02-7	4-Nitrophenol	BRL		µg/kg dry	7210	10	"	"	"	"	"
62-75-9	N-Nitrosodimethylamine	BRL		µg/kg dry	1800	10	"	"	"	"	"
621-64-7	N-Nitrosodi-n-propylamine	BRL		µg/kg dry	1800	10	"	"	"	"	"

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 135 OF 185

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Semivolatile Organic Compounds by GCMS											
Semivolatile Organic Compounds by SW846 8270C			R05								
Prepared by method SW846 3550B											
86-30-6	N-Nitrosodiphenylamine	BRL		µg/kg dry	1800	10	SW846 8270C	06-Jun-08	10-Jun-08	8060451	MSL
87-86-5	Pentachlorophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
85-01-8	Phenanthrene	BRL		µg/kg dry	1800	10	"	"	"	"	"
108-95-2	Phenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
129-00-0	Pyrene	2,090		µg/kg dry	1800	10	"	"	"	"	"
110-86-1	Pyridine	BRL		µg/kg dry	1800	10	"	"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
95-95-4	2,4,5-Trichlorophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
88-06-2	2,4,6-Trichlorophenol	BRL		µg/kg dry	1800	10	"	"	"	"	"
82-68-8	Pentachloronitrobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
95-94-3	1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	1800	10	"	"	"	"	"
Surrogate recoveries:											
321-60-8	*2-Fluorobiphenyl*	60		30-130 %			"	"	"	"	"
367-12-4	*2-Fluorophenol*	60		15-110 %			"	"	"	"	"
4165-60-0	*Nitrobenzene-d5*	55		30-130 %			"	"	"	"	"
4165-62-2	*Phenol-d5*	57		15-110 %			"	"	"	"	"
1718-51-0	*Terphenyl-d14*	60		30-130 %			"	"	"	"	"
118-79-6	*2,4,6-Tribromophenol*	60		15-110 %			"	"	"	"	"
Semivolatile Organic Compounds by GC											
Polychlorinated Biphenyls by SW846 8082											
Prepared by method SW846 3550B											
12674-11-2	PCB 1016	BRL		µg/kg dry	20.8	1	SW846 8082	06-Jun-08	09-Jun-08	8060508	SM
11104-28-2	PCB 1221	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11141-16-5	PCB 1232	BRL		µg/kg dry	20.8	1	"	"	"	"	"
53469-21-9	PCB 1242	BRL		µg/kg dry	20.8	1	"	"	"	"	"
12672-29-6	PCB 1248	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11097-69-1	PCB 1254	53.5		µg/kg dry	20.8	1	"	"	"	"	"
11096-82-5	PCB 1260	37.6		µg/kg dry	20.8	1	"	"	"	"	"
37324-23-5	PCB 1262	BRL		µg/kg dry	20.8	1	"	"	"	"	"
11100-14-4	PCB 1268	BRL		µg/kg dry	20.8	1	"	"	"	"	"
Surrogate recoveries:											
10386-84-2	*4,4-DB-Octafluorobiphenyl (Sr)*	75		30-150 %			"	"	"	"	"
2051-24-3	*Decachlorobiphenyl (Sr)*	114		30-150 %			"	"	"	"	"
Extractable Petroleum Hydrocarbons											
Extractable Total Petroleum Hydrocarbons											
Prepared by method SW846 3550B											
8006-61-9	Gasoline	BRL		mg/kg dry	72.6	5	+CT ETPH	06-Jun-08	10-Jun-08	8060450	MH
68476-30-2	Fuel Oil #2	BRL		mg/kg dry	72.6	5	"	"	"	"	"
68476-31-3	Fuel Oil #4	BRL		mg/kg dry	72.6	5	"	"	"	"	"
68553-00-4	Fuel Oil #6	BRL		mg/kg dry	72.6	5	"	"	"	"	"
M098300000	Motor Oil	BRL		mg/kg dry	72.6	5	"	"	"	"	"
J00100000	Aviation Fuel	BRL		mg/kg dry	72.6	5	"	"	"	"	"
	Unidentified	1,180		mg/kg dry	72.6	5	"	"	"	"	"
	Other Oil	Calculated as		mg/kg dry	72.6	5	"	"	"	"	"
	Total Petroleum Hydrocarbons	1,180		mg/kg dry	72.6	5	"	"	"	"	"
	C9-C36 Aliphatic Hydrocarbons	1,180		mg/kg dry	72.6	5	"	"	"	"	"
Surrogate recoveries.											
3386-33-2	*1-Chlorooctadecane*	66		50-150 %			"	"	"	"	"
Total Metals by EPA 6000/7000 Series Methods											

ADDENDUM NUMBER 1

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Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
GP-11 2' -5'	BI-FP-008A	Soil	03-Jun-08 00:00	04-Jun-08
SA79633-11				

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	Dilution	Method Ref.	Prepared	Analyzed	Batch	Analyst
Total Metals by EPA 6000/7000 Series Methods											
7440-22-4	Silver	BRL		mg/kg dry	1.62	1	SW846 6010B	10-Jun-08	12-Jun-08	8060461	SA
7440-38-2	Arsenic	6.04		mg/kg dry	1.62	1	"	"	"	"	"
7440-39-3	Barium	63.5		mg/kg dry	1.08	1	"	"	11-Jun-08	"	TBG
7440-43-9	Cadmium	BRL		mg/kg dry	0.594	1	"	"	12-Jun-08	"	SA
7440-47-3	Chromium	9.98		mg/kg dry	1.08	1	"	"	11-Jun-08	"	TBG
7439-97-6	Mercury	0.148		mg/kg dry	0.0314	1	SW846 7471A	"	10-Jun-08	8060462	JMN
7439-92-1	Lead	113		mg/kg dry	1.62	1	SW846 6010B	"	11-Jun-08	8060461	TBG
7782-49-2	Selenium	BRL		mg/kg dry	1.62	1	"	"	12-Jun-08	"	SA
SPLP Metals by EPA 1312 & 6000/7000 Series Methods											
	SPLP Extraction	Completed		N/A		1	SW846 1312	06-Jun-08	06-Jun-08	8060512	CMK
7440-22-4	Silver	BRL		mg/l	0.0100	1	SW846 1312/6010B	09-Jun-08	09-Jun-08	8060584	TBG
7440-38-2	Arsenic	BRL		mg/l	0.0080	1	"	"	"	"	"
7440-39-3	Barium	0.0222		mg/l	0.0100	1	"	"	"	"	"
7440-43-9	Cadmium	BRL		mg/l	0.0050	1	"	"	"	"	"
7440-47-3	Chromium	BRL		mg/l	0.0100	1	"	"	"	"	"
7439-97-6	Mercury	BRL		mg/l	0.00020	1	SW846 1312/7470A	"	10-Jun-08	8060565	JMN
7439-92-1	Lead	0.0322		mg/l	0.0150	1	SW846 1312/6010B	"	09-Jun-08	8060584	TBG
7782-49-2	Selenium	BRL		mg/l	0.0300	1	"	"	"	"	"
General Chemistry Parameters											
	% Solids	90.5		%		1	SM2540 G Mod.	06-Jun-08	06-Jun-08	8060511	JB

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060487 - SW846 5035A Soil (low level)										
Blank (8060487-BLK1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060487 - SW846 5035A Soil (low level)										
Blank (8060487-BLK1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
n-Propylbenzene	BRL		µg/kg wet	5.0						
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2500						
Surrogate: 4-Bromofluorobenzene	*48.9*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: Toluene-d8	*49.8*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*58.3*		µg/kg wet		*50.0*		*117*	*70-130*		
Surrogate: Dibromofluoromethane	*48.8*		µg/kg wet		*50.0*		*98*	*70-130*		
LCS (8060487-BS1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.4		µg/kg wet		20.0		77	70-130		
Acetone	18.8		µg/kg wet		20.0		94	24.9-167		
Acrylonitrile	18.2		µg/kg wet		20.0		91	70-130		
Benzene	15.9		µg/kg wet		20.0		80	70-130		
Bromobenzene	17.5		µg/kg wet		20.0		87	70-130		
Bromochloromethane	16.8		µg/kg wet		20.0		84	70-130		
Bromodichloromethane	16.2		µg/kg wet		20.0		81	70-130		
Bromoform	18.7		µg/kg wet		20.0		93	70-130		
Bromomethane	14.4		µg/kg wet		20.0		72	57.4-139		
2-Butanone (MEK)	14.5		µg/kg wet		20.0		73	46.9-141		
n-Butylbenzene	14.7		µg/kg wet		20.0		74	70-130		
sec-Butylbenzene	16.6		µg/kg wet		20.0		83	70-130		
tert-Butylbenzene	16.6		µg/kg wet		20.0		83	70-130		
Carbon disulfide	14.8		µg/kg wet		20.0		74	70-130		
Carbon tetrachloride	15.9		µg/kg wet		20.0		79	70-130		
Chlorobenzene	17.0		µg/kg wet		20.0		85	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060487 - SW846 5035A Soil (low level)										
LCS (8060487-BS1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
Chloroethane	15.0		µg/kg wet		20.0		75	60.5-131		
Chloroform	15.1		µg/kg wet		20.0		76	70-130		
Chloromethane	15.1		µg/kg wet		20.0		76	70-130		
2-Chlorotoluene	16.8		µg/kg wet		20.0		84	70-130		
4-Chlorotoluene	16.5		µg/kg wet		20.0		83	70-130		
1,2-Dibromo-3-chloropropane	18.3		µg/kg wet		20.0		91	70-130		
Dibromochloromethane	18.1		µg/kg wet		20.0		91	70-130		
1,2-Dibromoethane (EDB)	17.7		µg/kg wet		20.0		89	70-130		
Dibromomethane	17.4		µg/kg wet		20.0		87	70-130		
1,2-Dichlorobenzene	17.0		µg/kg wet		20.0		85	70-130		
1,3-Dichlorobenzene	17.1		µg/kg wet		20.0		86	70-130		
1,4-Dichlorobenzene	16.4		µg/kg wet		20.0		82	70-130		
Dichlorodifluoromethane (Freon12)	16.4		µg/kg wet		20.0		82	47.2-175		
1,1-Dichloroethane	15.9		µg/kg wet		20.0		79	70-130		
1,2-Dichloroethane	16.7		µg/kg wet		20.0		84	70-130		
1,1-Dichloroethene	15.5		µg/kg wet		20.0		78	70-130		
cis-1,2-Dichloroethene	16.3		µg/kg wet		20.0		81	70-130		
trans-1,2-Dichloroethene	16.0		µg/kg wet		20.0		80	70-130		
1,2-Dichloropropane	16.4		µg/kg wet		20.0		82	70-130		
1,3-Dichloropropane	17.3		µg/kg wet		20.0		87	70-130		
2,2-Dichloropropane	10.4	QC2	µg/kg wet		20.0		52	70-130		
1,1-Dichloropropene	14.9		µg/kg wet		20.0		74	70-130		
cis-1,3-Dichloropropene	14.9		µg/kg wet		20.0		74	70-130		
trans-1,3-Dichloropropene	15.2		µg/kg wet		20.0		76	70-130		
Ethylbenzene	16.2		µg/kg wet		20.0		81	70-130		
Hexachlorobutadiene	15.2		µg/kg wet		20.0		76	62.4-142		
2-Hexanone (MBK)	18.2		µg/kg wet		20.0		91	70-130		
Isopropylbenzene	16.6		µg/kg wet		20.0		83	70-130		
4-Isopropyltoluene	15.8		µg/kg wet		20.0		79	70-130		
Methyl tert-butyl ether	15.2		µg/kg wet		20.0		76	70-130		
4-Methyl-2-pentanone (MIBK)	16.8		µg/kg wet		20.0		84	70-135		
Methylene chloride	16.3		µg/kg wet		20.0		81	70-130		
Naphthalene	16.7		µg/kg wet		20.0		84	70-130		
n-Propylbenzene	16.2		µg/kg wet		20.0		81	70-130		
Styrene	17.3		µg/kg wet		20.0		87	70-130		
1,1,1,2-Tetrachloroethane	17.4		µg/kg wet		20.0		87	70-130		
1,1,2,2-Tetrachloroethane	18.8		µg/kg wet		20.0		94	70-130		
Tetrachloroethene	16.4		µg/kg wet		20.0		82	70-130		
Toluene	15.6		µg/kg wet		20.0		78	70-130		
1,2,3-Trichlorobenzene	17.4		µg/kg wet		20.0		87	70-130		
1,2,4-Trichlorobenzene	16.1		µg/kg wet		20.0		81	70-130		
1,3,5-Trichlorobenzene	15.6		µg/kg wet		20.0		78	70-130		
1,1,1-Trichloroethane	15.6		µg/kg wet		20.0		78	70-130		
1,1,2-Trichloroethane	17.6		µg/kg wet		20.0		88	70-130		
Trichloroethene	16.0		µg/kg wet		20.0		80	70-130		
Trichlorofluoromethane (Freon 11)	16.0		µg/kg wet		20.0		80	70-136		
1,2,3-Trichloropropane	19.0		µg/kg wet		20.0		95	70-130		
1,2,4-Trimethylbenzene	16.7		µg/kg wet		20.0		84	70-130		
1,3,5-Trimethylbenzene	16.6		µg/kg wet		20.0		83	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060487 - SW846 5035A Soil (low level)										
LCS (8060487-BS1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
Vinyl chloride	15.6		µg/kg wet		20.0		78	70-130		
m,p-Xylene	33.3		µg/kg wet		40.0		83	70-130		
o-Xylene	16.9		µg/kg wet		20.0		84	70-130		
Tetrahydrofuran	16.6		µg/kg wet		20.0		83	70-130		
Ethyl ether	15.9		µg/kg wet		20.0		79	70-130		
Tert-amyl methyl ether	14.4		µg/kg wet		20.0		72	70-130		
Ethyl tert-butyl ether	14.5		µg/kg wet		20.0		72	70-130		
Di-isopropyl ether	16.0		µg/kg wet		20.0		80	70-130		
Tert-Butanol / butyl alcohol	192		µg/kg wet		200		96	70-130		
1,4-Dioxane	203		µg/kg wet		200		101	42.2-144		
trans-1,4-Dichloro-2-butene	13.8	QC1	µg/kg wet		20.0		69	70-130		
Ethanol	459		µg/kg wet		400		115	70-130		
Surrogate: 4-Bromofluorobenzene	*50.3*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*51.8*		µg/kg wet		*50.0*		*104*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		
LCS Dup (8060487-BSD1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	15.6		µg/kg wet		20.0		78	70-130	1	25
Acetone	16.5		µg/kg wet		20.0		82	24.9-167	13	50
Acrylonitrile	18.3		µg/kg wet		20.0		91	70-130	0.5	25
Benzene	16.2		µg/kg wet		20.0		81	70-130	2	25
Bromobenzene	18.0		µg/kg wet		20.0		90	70-130	3	25
Bromochloromethane	17.2		µg/kg wet		20.0		86	70-130	2	25
Bromodichloromethane	16.6		µg/kg wet		20.0		83	70-130	2	25
Bromoform	20.6		µg/kg wet		20.0		103	70-130	10	25
Bromomethane	15.1		µg/kg wet		20.0		76	57.4-139	5	50
2-Butanone (MEK)	14.6		µg/kg wet		20.0		73	46.9-141	0.8	50
n-Butylbenzene	14.9		µg/kg wet		20.0		74	70-130	1	25
sec-Butylbenzene	17.1		µg/kg wet		20.0		85	70-130	3	25
tert-Butylbenzene	17.4		µg/kg wet		20.0		87	70-130	4	25
Carbon disulfide	14.8		µg/kg wet		20.0		74	70-130	0.5	25
Carbon tetrachloride	16.3		µg/kg wet		20.0		82	70-130	3	25
Chlorobenzene	17.5		µg/kg wet		20.0		88	70-130	3	25
Chloroethane	14.2		µg/kg wet		20.0		71	60.5-131	5	50
Chloroform	15.4		µg/kg wet		20.0		77	70-130	2	25
Chloromethane	15.6		µg/kg wet		20.0		78	70-130	3	25
2-Chlorotoluene	17.6		µg/kg wet		20.0		88	70-130	5	25
4-Chlorotoluene	17.0		µg/kg wet		20.0		85	70-130	3	25
1,2-Dibromo-3-chloropropane	19.4		µg/kg wet		20.0		97	70-130	6	25
Dibromochloromethane	17.6		µg/kg wet		20.0		88	70-130	3	50
1,2-Dibromoethane (EDB)	17.6		µg/kg wet		20.0		88	70-130	0.8	25
Dibromomethane	17.5		µg/kg wet		20.0		87	70-130	0.5	25
1,2-Dichlorobenzene	17.6		µg/kg wet		20.0		88	70-130	3	25
1,3-Dichlorobenzene	17.4		µg/kg wet		20.0		87	70-130	1	25
1,4-Dichlorobenzene	16.7		µg/kg wet		20.0		84	70-130	2	25
Dichlorodifluoromethane (Freon12)	16.8		µg/kg wet		20.0		84	47.2-175	3	50
1,1-Dichloroethane	16.0		µg/kg wet		20.0		80	70-130	1	25
1,2-Dichloroethane	16.7		µg/kg wet		20.0		84	70-130	0.2	25
1,1-Dichloroethene	16.2		µg/kg wet		20.0		81	70-130	4	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060487 - SW846 5035A Soil (low level)										
LCS Dup (8060487-BSD1)										
Prepared: 06-Jun-08 Analyzed: 08-Jun-08										
cis-1,2-Dichloroethene	16.4		µg/kg wet		20.0		82	70-130	0.8	25
trans-1,2-Dichloroethene	15.9		µg/kg wet		20.0		80	70-130	0.3	25
1,2-Dichloropropane	16.6		µg/kg wet		20.0		83	70-130	1	25
1,3-Dichloropropane	17.8		µg/kg wet		20.0		89	70-130	3	25
2,2-Dichloropropane	10.4	QC2	µg/kg wet		20.0		52	70-130	0.5	25
1,1-Dichloropropene	15.5		µg/kg wet		20.0		77	70-130	4	25
cis-1,3-Dichloropropene	15.0		µg/kg wet		20.0		75	70-130	1	25
trans-1,3-Dichloropropene	15.3		µg/kg wet		20.0		76	70-130	0.9	25
Ethylbenzene	16.8		µg/kg wet		20.0		84	70-130	4	25
Hexachlorobutadiene	15.6		µg/kg wet		20.0		78	62.4-142	2	50
2-Hexanone (MBK)	18.0		µg/kg wet		20.0		90	70-130	0.9	25
Isopropylbenzene	17.0		µg/kg wet		20.0		85	70-130	2	25
4-Isopropyltoluene	16.3		µg/kg wet		20.0		82	70-130	3	25
Methyl tert-butyl ether	15.4		µg/kg wet		20.0		77	70-130	0.9	25
4-Methyl-2-pentanone (MIBK)	19.0		µg/kg wet		20.0		95	70-135	12	50
Methylene chloride	16.4		µg/kg wet		20.0		82	70-130	0.7	25
Naphthalene	16.8		µg/kg wet		20.0		84	70-130	0.4	25
n-Propylbenzene	16.8		µg/kg wet		20.0		84	70-130	4	25
Styrene	17.5		µg/kg wet		20.0		88	70-130	1	25
1,1,1,2-Tetrachloroethane	17.8		µg/kg wet		20.0		89	70-130	3	25
1,1,2,2-Tetrachloroethane	19.1		µg/kg wet		20.0		96	70-130	1	25
Tetrachloroethene	16.2		µg/kg wet		20.0		81	70-130	0.8	25
Toluene	16.1		µg/kg wet		20.0		81	70-130	3	25
1,2,3-Trichlorobenzene	18.0		µg/kg wet		20.0		90	70-130	3	25
1,2,4-Trichlorobenzene	16.9		µg/kg wet		20.0		84	70-130	5	25
1,3,5-Trichlorobenzene	16.2		µg/kg wet		20.0		81	70-130	4	25
1,1,1-Trichloroethane	16.0		µg/kg wet		20.0		80	70-130	3	25
1,1,2-Trichloroethane	17.9		µg/kg wet		20.0		89	70-130	2	25
Trichloroethene	16.5		µg/kg wet		20.0		83	70-130	4	25
Trichlorofluoromethane (Freon 11)	16.3		µg/kg wet		20.0		81	70-136	2	50
1,2,3-Trichloropropane	19.7		µg/kg wet		20.0		98	70-130	4	25
1,2,4-Trimethylbenzene	17.1		µg/kg wet		20.0		86	70-130	2	25
1,3,5-Trimethylbenzene	17.2		µg/kg wet		20.0		86	70-130	4	25
Vinyl chloride	15.9		µg/kg wet		20.0		79	70-130	2	25
m,p-Xylene	34.0		µg/kg wet		40.0		85	70-130	2	25
o-Xylene	17.4		µg/kg wet		20.0		87	70-130	3	25
Tetrahydrofuran	16.3		µg/kg wet		20.0		82	70-130	2	25
Ethyl ether	16.0		µg/kg wet		20.0		80	70-130	1	50
Tert-amyl methyl ether	15.2		µg/kg wet		20.0		76	70-130	5	25
Ethyl tert-butyl ether	14.9		µg/kg wet		20.0		74	70-130	3	25
Di-isopropyl ether	16.2		µg/kg wet		20.0		81	70-130	1	25
Tert-Butanol / butyl alcohol	194		µg/kg wet		200		97	70-130	1	25
1,4-Dioxane	196		µg/kg wet		200		98	42.2-144	3	25
trans-1,4-Dichloro-2-butene	14.5		µg/kg wet		20.0		72	70-130	5	25
Ethanol	471		µg/kg wet		400		118	70-130	2	30
Surrogate: 4-Bromofluorobenzene	50.3		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	49.3		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	51.1		µg/kg wet		*50.0*		*102*	*70-130*		
Surrogate: Dibromofluoromethane	49.0		µg/kg wet		*50.0*		*98*	*70-130*		

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060691 - SW846 5035A Soil (low level)										
Blank (8060691-BLK1)										
Prepared & Analyzed: 10-Jun-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL		µg/kg wet	5.0						
Acetone	BRL		µg/kg wet	50.0						
Acrylonitrile	BRL		µg/kg wet	5.0						
Benzene	BRL		µg/kg wet	5.0						
Bromobenzene	BRL		µg/kg wet	5.0						
Bromochloromethane	BRL		µg/kg wet	5.0						
Bromodichloromethane	BRL		µg/kg wet	5.0						
Bromoform	BRL		µg/kg wet	5.0						
Bromomethane	BRL		µg/kg wet	10.0						
2-Butanone (MEK)	BRL		µg/kg wet	50.0						
n-Butylbenzene	BRL		µg/kg wet	5.0						
sec-Butylbenzene	BRL		µg/kg wet	5.0						
tert-Butylbenzene	BRL		µg/kg wet	5.0						
Carbon disulfide	BRL		µg/kg wet	25.0						
Carbon tetrachloride	BRL		µg/kg wet	5.0						
Chlorobenzene	BRL		µg/kg wet	5.0						
Chloroethane	BRL		µg/kg wet	10.0						
Chloroform	BRL		µg/kg wet	5.0						
Chloromethane	BRL		µg/kg wet	10.0						
2-Chlorotoluene	BRL		µg/kg wet	5.0						
4-Chlorotoluene	BRL		µg/kg wet	5.0						
1,2-Dibromo-3-chloropropane	BRL		µg/kg wet	10.0						
Dibromochloromethane	BRL		µg/kg wet	5.0						
1,2-Dibromoethane (EDB)	BRL		µg/kg wet	5.0						
Dibromomethane	BRL		µg/kg wet	5.0						
1,2-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,3-Dichlorobenzene	BRL		µg/kg wet	5.0						
1,4-Dichlorobenzene	BRL		µg/kg wet	5.0						
Dichlorodifluoromethane (Freon12)	BRL		µg/kg wet	10.0						
1,1-Dichloroethane	BRL		µg/kg wet	5.0						
1,2-Dichloroethane	BRL		µg/kg wet	5.0						
1,1-Dichloroethene	BRL		µg/kg wet	5.0						
cis-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
trans-1,2-Dichloroethene	BRL		µg/kg wet	5.0						
1,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,3-Dichloropropane	BRL		µg/kg wet	5.0						
2,2-Dichloropropane	BRL		µg/kg wet	5.0						
1,1-Dichloropropene	BRL		µg/kg wet	5.0						
cis-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
trans-1,3-Dichloropropene	BRL		µg/kg wet	5.0						
Ethylbenzene	BRL		µg/kg wet	5.0						
Hexachlorobutadiene	BRL		µg/kg wet	5.0						
2-Hexanone (MBK)	BRL		µg/kg wet	50.0						
Isopropylbenzene	BRL		µg/kg wet	5.0						
4-Isopropyltoluene	BRL		µg/kg wet	5.0						
Methyl tert-butyl ether	BRL		µg/kg wet	5.0						
4-Methyl-2-pentanone (MIBK)	BRL		µg/kg wet	50.0						
Methylene chloride	BRL		µg/kg wet	50.0						
Naphthalene	BRL		µg/kg wet	5.0						
n-Propylbenzene	BRL		µg/kg wet	5.0						

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060691 - SW846 5035A Soil (low level)										
Blank (8060691-BLK1)										
Prepared & Analyzed: 10-Jun-08										
Styrene	BRL		µg/kg wet	5.0						
1,1,1,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
1,1,2,2-Tetrachloroethane	BRL		µg/kg wet	5.0						
Tetrachloroethene	BRL		µg/kg wet	5.0						
Toluene	BRL		µg/kg wet	5.0						
1,2,3-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,3,5-Trichlorobenzene	BRL		µg/kg wet	5.0						
1,1,1-Trichloroethane	BRL		µg/kg wet	5.0						
1,1,2-Trichloroethane	BRL		µg/kg wet	5.0						
Trichloroethene	BRL		µg/kg wet	5.0						
Trichlorofluoromethane (Freon 11)	BRL		µg/kg wet	5.0						
1,2,3-Trichloropropane	BRL		µg/kg wet	5.0						
1,2,4-Trimethylbenzene	BRL		µg/kg wet	5.0						
1,3,5-Trimethylbenzene	BRL		µg/kg wet	5.0						
Vinyl chloride	BRL		µg/kg wet	5.0						
m,p-Xylene	BRL		µg/kg wet	10.0						
o-Xylene	BRL		µg/kg wet	5.0						
Tetrahydrofuran	BRL		µg/kg wet	50.0						
Ethyl ether	BRL		µg/kg wet	5.0						
Tert-amyl methyl ether	BRL		µg/kg wet	5.0						
Ethyl tert-butyl ether	BRL		µg/kg wet	5.0						
Di-isopropyl ether	BRL		µg/kg wet	5.0						
Tert-Butanol / butyl alcohol	BRL		µg/kg wet	50.0						
1,4-Dioxane	BRL		µg/kg wet	100						
trans-1,4-Dichloro-2-butene	BRL		µg/kg wet	25.0						
Ethanol	BRL		µg/kg wet	2500						
Surrogate: 4-Bromofluorobenzene	*50.1*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Toluene-d8	*48.9*		µg/kg wet		*50.0*		*98*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*56.9*		µg/kg wet		*50.0*		*114*	*70-130*		
Surrogate: Dibromofluoromethane	*48.6*		µg/kg wet		*50.0*		*97*	*70-130*		
LCS (8060691-BS1)										
Prepared & Analyzed: 10-Jun-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.3		µg/kg wet		20.0		101	70-130		
Acetone	16.4		µg/kg wet		20.0		82	24.9-167		
Acrylonitrile	18.2		µg/kg wet		20.0		91	70-130		
Benzene	16.6		µg/kg wet		20.0		83	70-130		
Bromobenzene	19.3		µg/kg wet		20.0		96	70-130		
Bromochloromethane	17.9		µg/kg wet		20.0		90	70-130		
Bromodichloromethane	18.1		µg/kg wet		20.0		91	70-130		
Bromoform	21.7		µg/kg wet		20.0		109	70-130		
Bromomethane	15.8		µg/kg wet		20.0		79	57.4-139		
2-Butanone (MEK)	14.3		µg/kg wet		20.0		71	46.9-141		
n-Butylbenzene	17.0		µg/kg wet		20.0		85	70-130		
sec-Butylbenzene	18.7		µg/kg wet		20.0		94	70-130		
tert-Butylbenzene	18.7		µg/kg wet		20.0		94	70-130		
Carbon disulfide	15.4		µg/kg wet		20.0		77	70-130		
Carbon tetrachloride	17.1		µg/kg wet		20.0		85	70-130		
Chlorobenzene	18.8		µg/kg wet		20.0		94	70-130		
Chloroethane	15.7		µg/kg wet		20.0		79	60.5-131		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060691 - SW846 5035A Soil (low level)										
LCS (8060691-BS1)										
Prepared & Analyzed: 10-Jun-08										
Chloroform	16.6		µg/kg wet		20.0		83	70-130		
Chloromethane	17.5		µg/kg wet		20.0		87	70-130		
2-Chlorotoluene	18.9		µg/kg wet		20.0		95	70-130		
4-Chlorotoluene	18.8		µg/kg wet		20.0		94	70-130		
1,2-Dibromo-3-chloropropane	19.8		µg/kg wet		20.0		99	70-130		
Dibromochloromethane	18.6		µg/kg wet		20.0		93	70-130		
1,2-Dibromoethane (EDB)	18.8		µg/kg wet		20.0		94	70-130		
Dibromomethane	18.6		µg/kg wet		20.0		93	70-130		
1,2-Dichlorobenzene	18.3		µg/kg wet		20.0		92	70-130		
1,3-Dichlorobenzene	19.5		µg/kg wet		20.0		98	70-130		
1,4-Dichlorobenzene	17.9		µg/kg wet		20.0		89	70-130		
Dichlorodifluoromethane (Freon12)	21.8		µg/kg wet		20.0		109	47.2-175		
1,1-Dichloroethane	17.1		µg/kg wet		20.0		85	70-130		
1,2-Dichloroethane	17.5		µg/kg wet		20.0		87	70-130		
1,1-Dichloroethene	17.6		µg/kg wet		20.0		88	70-130		
cis-1,2-Dichloroethene	17.8		µg/kg wet		20.0		89	70-130		
trans-1,2-Dichloroethene	16.6		µg/kg wet		20.0		83	70-130		
1,2-Dichloropropane	17.2		µg/kg wet		20.0		86	70-130		
1,3-Dichloropropane	18.1		µg/kg wet		20.0		90	70-130		
2,2-Dichloropropane	13.5	QC2	µg/kg wet		20.0		68	70-130		
1,1-Dichloropropene	16.4		µg/kg wet		20.0		82	70-130		
cis-1,3-Dichloropropene	16.3		µg/kg wet		20.0		82	70-130		
trans-1,3-Dichloropropene	16.6		µg/kg wet		20.0		83	70-130		
Ethylbenzene	18.1		µg/kg wet		20.0		90	70-130		
Hexachlorobutadiene	16.7		µg/kg wet		20.0		84	62.4-142		
2-Hexanone (MBK)	17.5		µg/kg wet		20.0		87	70-130		
Isopropylbenzene	17.3		µg/kg wet		20.0		86	70-130		
4-Isopropyltoluene	18.0		µg/kg wet		20.0		90	70-130		
Methyl tert-butyl ether	15.0		µg/kg wet		20.0		75	70-130		
4-Methyl-2-pentanone (MIBK)	18.7		µg/kg wet		20.0		94	70-135		
Methylene chloride	18.1		µg/kg wet		20.0		90	70-130		
Naphthalene	16.7		µg/kg wet		20.0		83	70-130		
n-Propylbenzene	17.9		µg/kg wet		20.0		90	70-130		
Styrene	19.0		µg/kg wet		20.0		95	70-130		
1,1,1,2-Tetrachloroethane	19.5		µg/kg wet		20.0		98	70-130		
1,1,2,2-Tetrachloroethane	18.3		µg/kg wet		20.0		92	70-130		
Tetrachloroethene	18.0		µg/kg wet		20.0		90	70-130		
Toluene	16.8		µg/kg wet		20.0		84	70-130		
1,2,3-Trichlorobenzene	18.5		µg/kg wet		20.0		93	70-130		
1,2,4-Trichlorobenzene	17.4		µg/kg wet		20.0		87	70-130		
1,3,5-Trichlorobenzene	17.1		µg/kg wet		20.0		85	70-130		
1,1,1-Trichloroethane	17.2		µg/kg wet		20.0		86	70-130		
1,1,2-Trichloroethane	19.0		µg/kg wet		20.0		95	70-130		
Trichloroethene	18.0		µg/kg wet		20.0		90	70-130		
Trichlorofluoromethane (Freon 11)	18.1		µg/kg wet		20.0		90	70-136		
1,2,3-Trichloropropane	22.6		µg/kg wet		20.0		113	70-130		
1,2,4-Trimethylbenzene	18.7		µg/kg wet		20.0		93	70-130		
1,3,5-Trimethylbenzene	18.6		µg/kg wet		20.0		93	70-130		
Vinyl chloride	19.4		µg/kg wet		20.0		97	70-130		

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060691 - SW846 5035A Soil (low level)										
LCS (8060691-BS1)										
Prepared & Analyzed: 10-Jun-08										
m,p-Xylene	37.6		µg/kg wet		40.0		94	70-130		
o-Xylene	19.1		µg/kg wet		20.0		95	70-130		
Tetrahydrofuran	16.0		µg/kg wet		20.0		80	70-130		
Ethyl ether	17.0		µg/kg wet		20.0		85	70-130		
Tert-amyl methyl ether	16.4		µg/kg wet		20.0		82	70-130		
Ethyl tert-butyl ether	15.6		µg/kg wet		20.0		78	70-130		
Di-isopropyl ether	15.9		µg/kg wet		20.0		80	70-130		
Tert-Butanol / butyl alcohol	171		µg/kg wet		200		85	70-130		
1,4-Dioxane	166		µg/kg wet		200		83	42.2-144		
trans-1,4-Dichloro-2-butene	16.6		µg/kg wet		20.0		83	70-130		
Ethanol	445		µg/kg wet		400		111	70-130		
Surrogate: 4-Bromofluorobenzene	*51.3*		µg/kg wet		*50.0*		*103*	*70-130*		
Surrogate: Toluene-d8	*48.1*		µg/kg wet		*50.0*		*96*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*49.6*		µg/kg wet		*50.0*		*99*	*70-130*		
Surrogate: Dibromofluoromethane	*49.3*		µg/kg wet		*50.0*		*99*	*70-130*		
LCS Dup (8060691-BSD1)										
Prepared & Analyzed: 10-Jun-08										
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.4		µg/kg wet		20.0		97	70-130	4	25
Acetone	18.1		µg/kg wet		20.0		91	24.9-167	10	50
Acrylonitrile	19.8		µg/kg wet		20.0		99	70-130	8	25
Benzene	16.5		µg/kg wet		20.0		83	70-130	0.5	25
Bromobenzene	19.0		µg/kg wet		20.0		95	70-130	1	25
Bromochloromethane	18.6		µg/kg wet		20.0		93	70-130	4	25
Bromodichloromethane	18.2		µg/kg wet		20.0		91	70-130	0.7	25
Bromoform	21.8		µg/kg wet		20.0		109	70-130	0.6	25
Bromomethane	15.2		µg/kg wet		20.0		76	57.4-139	4	50
2-Butanone (MEK)	16.3		µg/kg wet		20.0		81	46.9-141	13	50
n-Butylbenzene	16.3		µg/kg wet		20.0		82	70-130	4	25
sec-Butylbenzene	17.9		µg/kg wet		20.0		89	70-130	5	25
tert-Butylbenzene	18.1		µg/kg wet		20.0		90	70-130	3	25
Carbon disulfide	15.0		µg/kg wet		20.0		75	70-130	2	25
Carbon tetrachloride	17.4		µg/kg wet		20.0		87	70-130	2	25
Chlorobenzene	18.2		µg/kg wet		20.0		91	70-130	3	25
Chloroethane	15.6		µg/kg wet		20.0		78	60.5-131	1	50
Chloroform	16.4		µg/kg wet		20.0		82	70-130	1	25
Chloromethane	17.2		µg/kg wet		20.0		86	70-130	1	25
2-Chlorotoluene	18.8		µg/kg wet		20.0		94	70-130	0.6	25
4-Chlorotoluene	18.1		µg/kg wet		20.0		90	70-130	4	25
1,2-Dibromo-3-chloropropane	20.8		µg/kg wet		20.0		104	70-130	5	25
Dibromochloromethane	18.9		µg/kg wet		20.0		94	70-130	1	50
1,2-Dibromoethane (EDB)	19.1		µg/kg wet		20.0		96	70-130	2	25
Dibromomethane	19.0		µg/kg wet		20.0		95	70-130	2	25
1,2-Dichlorobenzene	18.2		µg/kg wet		20.0		91	70-130	0.6	25
1,3-Dichlorobenzene	18.8		µg/kg wet		20.0		94	70-130	4	25
1,4-Dichlorobenzene	17.7		µg/kg wet		20.0		89	70-130	1	25
Dichlorodifluoromethane (Freon12)	21.4		µg/kg wet		20.0		107	47.2-175	2	50
1,1-Dichloroethane	16.8		µg/kg wet		20.0		84	70-130	2	25
1,2-Dichloroethane	17.8		µg/kg wet		20.0		89	70-130	2	25
1,1-Dichloroethene	17.5		µg/kg wet		20.0		87	70-130	0.6	25
cis-1,2-Dichloroethene	17.8		µg/kg wet		20.0		89	70-130	0.1	25

Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060691 - SW846 5035A Soil (low level)										
LCS Dup (8060691-BSD1)										
Prepared & Analyzed: 10-Jun-08										
trans-1,2-Dichloroethene	16.5		µg/kg wet		20.0		83	70-130	0.7	25
1,2-Dichloropropane	17.3		µg/kg wet		20.0		87	70-130	0.6	25
1,3-Dichloropropane	19.1		µg/kg wet		20.0		96	70-130	6	25
2,2-Dichloropropane	13.2	QC2	µg/kg wet		20.0		66	70-130	2	25
1,1-Dichloropropene	16.7		µg/kg wet		20.0		83	70-130	1	25
cis-1,3-Dichloropropene	16.2		µg/kg wet		20.0		81	70-130	0.5	25
trans-1,3-Dichloropropene	16.6		µg/kg wet		20.0		83	70-130	0.1	25
Ethylbenzene	17.6		µg/kg wet		20.0		88	70-130	3	25
Hexachlorobutadiene	15.7		µg/kg wet		20.0		78	62.4-142	7	50
2-Hexanone (MBK)	18.8		µg/kg wet		20.0		94	70-130	7	25
Isopropylbenzene	16.5		µg/kg wet		20.0		83	70-130	4	25
4-Isopropyltoluene	17.4		µg/kg wet		20.0		87	70-130	3	25
Methyl tert-butyl ether	16.0		µg/kg wet		20.0		80	70-130	7	25
4-Methyl-2-pentanone (MIBK)	20.1		µg/kg wet		20.0		101	70-135	7	50
Methylene chloride	17.6		µg/kg wet		20.0		88	70-130	3	25
Naphthalene	17.2		µg/kg wet		20.0		86	70-130	3	25
n-Propylbenzene	17.2		µg/kg wet		20.0		86	70-130	4	25
Styrene	18.4		µg/kg wet		20.0		92	70-130	3	25
1,1,1,2-Tetrachloroethane	18.8		µg/kg wet		20.0		94	70-130	4	25
1,1,2,2-Tetrachloroethane	19.4		µg/kg wet		20.0		97	70-130	6	25
Tetrachloroethene	17.6		µg/kg wet		20.0		88	70-130	2	25
Toluene	16.3		µg/kg wet		20.0		81	70-130	3	25
1,2,3-Trichlorobenzene	18.5		µg/kg wet		20.0		93	70-130	0.05	25
1,2,4-Trichlorobenzene	18.0		µg/kg wet		20.0		90	70-130	4	25
1,3,5-Trichlorobenzene	16.4		µg/kg wet		20.0		82	70-130	4	25
1,1,1-Trichloroethane	16.8		µg/kg wet		20.0		84	70-130	2	25
1,1,2-Trichloroethane	19.2		µg/kg wet		20.0		96	70-130	1	25
Trichloroethene	17.9		µg/kg wet		20.0		89	70-130	0.4	25
Trichlorofluoromethane (Freon 11)	17.3		µg/kg wet		20.0		87	70-136	4	50
1,2,3-Trichloropropane	23.8		µg/kg wet		20.0		119	70-130	5	25
1,2,4-Trimethylbenzene	18.0		µg/kg wet		20.0		90	70-130	4	25
1,3,5-Trimethylbenzene	17.9		µg/kg wet		20.0		89	70-130	4	25
Vinyl chloride	18.9		µg/kg wet		20.0		95	70-130	2	25
m,p-Xylene	36.0		µg/kg wet		40.0		90	70-130	4	25
o-Xylene	18.5		µg/kg wet		20.0		93	70-130	3	25
Tetrahydrofuran	18.0		µg/kg wet		20.0		90	70-130	11	25
Ethyl ether	17.9		µg/kg wet		20.0		90	70-130	5	50
Tert-amyl methyl ether	16.1		µg/kg wet		20.0		80	70-130	2	25
Ethyl tert-butyl ether	16.0		µg/kg wet		20.0		80	70-130	2	25
Di-isopropyl ether	16.1		µg/kg wet		20.0		81	70-130	1	25
Tert-Butanol / butyl alcohol	202		µg/kg wet		200		101	70-130	16	25
1,4-Dioxane	195		µg/kg wet		200		98	42.2-144	16	25
trans-1,4-Dichloro-2-butene	17.3		µg/kg wet		20.0		86	70-130	4	25
Ethanol	454		µg/kg wet		400		113	70-130	2	30
Surrogate: 4-Bromofluorobenzene	*50.5*		µg/kg wet		*50.0*		*101*	*70-130*		
Surrogate: Toluene-d8	*48.5*		µg/kg wet		*50.0*		*97*	*70-130*		
Surrogate: 1,2-Dichloroethane-d4	*50.2*		µg/kg wet		*50.0*		*100*	*70-130*		
Surrogate: Dibromofluoromethane	*49.0*		µg/kg wet		*50.0*		*98*	*70-130*		

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060451 - SW846 3550B										
Blank (8060451-BLK1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Acenaphthene	BRL		µg/kg wet	165						
Acenaphthylene	BRL		µg/kg wet	165						
Aniline	BRL		µg/kg wet	165						
Anthracene	BRL		µg/kg wet	165						
Atrazine	BRL		µg/kg wet	165						
Azobenzene/Diphenyldiazine	BRL		µg/kg wet	165						
Benzidine	BRL		µg/kg wet	165						
Benzo (a) anthracene	BRL		µg/kg wet	165						
Benzo (a) pyrene	BRL		µg/kg wet	165						
Benzo (b) fluoranthene	BRL		µg/kg wet	165						
Benzo (g,h,i) perylene	BRL		µg/kg wet	165						
Benzo (k) fluoranthene	BRL		µg/kg wet	165						
Benzoic acid	BRL		µg/kg wet	165						
Benzyl alcohol	BRL		µg/kg wet	165						
Bis(2-chloroethoxy)methane	BRL		µg/kg wet	165						
Bis(2-chloroethyl)ether	BRL		µg/kg wet	165						
Bis(2-chloroisopropyl)ether	BRL		µg/kg wet	165						
Bis(2-ethylhexyl)phthalate	BRL		µg/kg wet	165						
4-Bromophenyl phenyl ether	BRL		µg/kg wet	165						
Butyl benzyl phthalate	BRL		µg/kg wet	165						
Carbazole	BRL		µg/kg wet	165						
4-Chloro-3-methylphenol	BRL		µg/kg wet	165						
4-Chloroaniline	BRL		µg/kg wet	165						
2-Chloronaphthalene	BRL		µg/kg wet	165						
2-Chlorophenol	BRL		µg/kg wet	165						
4-Chlorophenyl phenyl ether	BRL		µg/kg wet	165						
Chrysene	BRL		µg/kg wet	165						
Dibenzo (a,h) anthracene	BRL		µg/kg wet	165						
Dibenzofuran	BRL		µg/kg wet	165						
1,2-Dichlorobenzene	BRL		µg/kg wet	165						
1,3-Dichlorobenzene	BRL		µg/kg wet	165						
1,4-Dichlorobenzene	BRL		µg/kg wet	165						
3,3'-Dichlorobenzidine	BRL		µg/kg wet	165						
2,4-Dichlorophenol	BRL		µg/kg wet	165						
Diethyl phthalate	BRL		µg/kg wet	165						
Dimethyl phthalate	BRL		µg/kg wet	165						
2,4-Dimethylphenol	BRL		µg/kg wet	165						
Di-n-butyl phthalate	BRL		µg/kg wet	165						
4,6-Dinitro-2-methylphenol	BRL		µg/kg wet	165						
2,4-Dinitrophenol	BRL		µg/kg wet	165						
2,4-Dinitrotoluene	BRL		µg/kg wet	165						
2,6-Dinitrotoluene	BRL		µg/kg wet	165						
Di-n-octyl phthalate	BRL		µg/kg wet	165						
Fluoranthene	BRL		µg/kg wet	165						
Fluorene	BRL		µg/kg wet	165						
Hexachlorobenzene	BRL		µg/kg wet	165						
Hexachlorobutadiene	BRL		µg/kg wet	165						
Hexachlorocyclopentadiene	BRL		µg/kg wet	165						
Hexachloroethane	BRL		µg/kg wet	165						

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060451 - SW846 3550B										
Blank (8060451-BLK1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Indeno (1,2,3-cd) pyrene	BRL		µg/kg wet	165						
1-Methylnaphthalene	BRL		µg/kg wet	165						
Isophorone	BRL		µg/kg wet	165						
2-Methylnaphthalene	BRL		µg/kg wet	165						
2-Methylphenol	BRL		µg/kg wet	165						
3 & 4-Methylphenol	BRL		µg/kg wet	165						
Naphthalene	BRL		µg/kg wet	165						
2-Nitroaniline	BRL		µg/kg wet	165						
3-Nitroaniline	BRL		µg/kg wet	165						
4-Nitroaniline	BRL		µg/kg wet	660						
Nitrobenzene	BRL		µg/kg wet	165						
2-Nitrophenol	BRL		µg/kg wet	165						
4-Nitrophenol	BRL		µg/kg wet	660						
N-Nitrosodimethylamine	BRL		µg/kg wet	165						
N-Nitrosodi-n-propylamine	BRL		µg/kg wet	165						
N-Nitrosodiphenylamine	BRL		µg/kg wet	165						
Pentachlorophenol	BRL		µg/kg wet	165						
Phenanthrene	BRL		µg/kg wet	165						
Phenol	BRL		µg/kg wet	165						
Pyrene	BRL		µg/kg wet	165						
Pyridine	BRL		µg/kg wet	165						
1,2,4-Trichlorobenzene	BRL		µg/kg wet	165						
2,4,5-Trichlorophenol	BRL		µg/kg wet	165						
2,4,6-Trichlorophenol	BRL		µg/kg wet	165						
Pentachloronitrobenzene	BRL		µg/kg wet	165						
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg wet	165						
Surrogate: 2-Fluorobiphenyl	*1150*		µg/kg wet		*1670*		*69*	*30-130*		
Surrogate: 2-Fluorophenol	*1230*		µg/kg wet		*1670*		*74*	*15-110*		
Surrogate: Nitrobenzene-d5	*1150*		µg/kg wet		*1670*		*69*	*30-130*		
Surrogate: Phenol-d5	*1290*		µg/kg wet		*1670*		*77*	*15-110*		
Surrogate: Terphenyl-d14	*1110*		µg/kg wet		*1670*		*67*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1280*		µg/kg wet		*1670*		*77*	*15-110*		
LCS (8060451-BS1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Acenaphthene	1230		µg/kg wet	165	1670		74	40-130		
Acenaphthylene	1230		µg/kg wet	165	1670		74	40-130		
Aniline	893		µg/kg wet	165	1670		54	40-130		
Anthracene	1180		µg/kg wet	165	1670		71	40-130		
Atrazine	1130		µg/kg wet	165	1670		68	40-130		
Azobenzene/Diphenyldiazine	1330		µg/kg wet	165	1670		80	40-130		
Benzidine	BRL		µg/kg wet	165	1670			0-153		
Benzo (a) anthracene	1230		µg/kg wet	165	1670		74	40-130		
Benzo (a) pyrene	1260		µg/kg wet	165	1670		76	40-130		
Benzo (b) fluoranthene	1280		µg/kg wet	165	1670		77	40-130		
Benzo (g,h,i) perylene	1250		µg/kg wet	165	1670		75	40-130		
Benzo (k) fluoranthene	1270		µg/kg wet	165	1670		76	40-130		
Benzoic acid	996		µg/kg wet	165	1670		60	0-130		
Benzyl alcohol	1250		µg/kg wet	165	1670		75	40-130		
Bis(2-chloroethoxy)methane	1200		µg/kg wet	165	1670		72	40-130		
Bis(2-chloroethyl)ether	1280		µg/kg wet	165	1670		77	40-130		

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060451 - SW846 3550B										
LCS (8060451-BS1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Bis(2-chloroisopropyl)ether	1350		µg/kg wet	165	1670		81	40-130		
Bis(2-ethylhexyl)phthalate	1390		µg/kg wet	165	1670		83	40-130		
4-Bromophenyl phenyl ether	1230		µg/kg wet	165	1670		74	40-130		
Butyl benzyl phthalate	1400		µg/kg wet	165	1670		84	40-130		
Carbazole	1640		µg/kg wet	165	1670		99	40-130		
4-Chloro-3-methylphenol	1280		µg/kg wet	165	1670		77	40-130		
4-Chloroaniline	1120		µg/kg wet	165	1670		67	40-130		
2-Chloronaphthalene	1160		µg/kg wet	165	1670		69	40-130		
2-Chlorophenol	1180		µg/kg wet	165	1670		71	40-130		
4-Chlorophenyl phenyl ether	1330		µg/kg wet	165	1670		80	40-130		
Chrysene	1310		µg/kg wet	165	1670		79	40-130		
Dibenzo (a,h) anthracene	1300		µg/kg wet	165	1670		78	40-130		
Dibenzofuran	1180		µg/kg wet	165	1670		71	40-130		
1,2-Dichlorobenzene	1140		µg/kg wet	165	1670		68	40-130		
1,3-Dichlorobenzene	847		µg/kg wet	165	1670		51	40-130		
1,4-Dichlorobenzene	1420		µg/kg wet	165	1670		85	40-130		
3,3`-Dichlorobenzidine	1670		µg/kg wet	165	1670		100	40-130		
2,4-Dichlorophenol	1180		µg/kg wet	165	1670		71	40-130		
Diethyl phthalate	1410		µg/kg wet	165	1670		85	40-130		
Dimethyl phthalate	1310		µg/kg wet	165	1670		78	40-130		
2,4-Dimethylphenol	1130		µg/kg wet	165	1670		68	40-130		
Di-n-butyl phthalate	1340		µg/kg wet	165	1670		80	40-130		
4,6-Dinitro-2-methylphenol	1240		µg/kg wet	165	1670		74	40-130		
2,4-Dinitrophenol	1320		µg/kg wet	165	1670		79	40-130		
2,4-Dinitrotoluene	1300		µg/kg wet	165	1670		78	40-130		
2,6-Dinitrotoluene	1280		µg/kg wet	165	1670		77	40-130		
Di-n-octyl phthalate	1500		µg/kg wet	165	1670		90	40-130		
Fluoranthene	1230		µg/kg wet	165	1670		74	40-130		
Fluorene	1260		µg/kg wet	165	1670		76	40-130		
Hexachlorobenzene	1230		µg/kg wet	165	1670		74	40-130		
Hexachlorobutadiene	1270		µg/kg wet	165	1670		76	40-130		
Hexachlorocyclopentadiene	979		µg/kg wet	165	1670		59	40-130		
Hexachloroethane	1260		µg/kg wet	165	1670		76	40-130		
Indeno (1,2,3-cd) pyrene	1260		µg/kg wet	165	1670		75	40-130		
Isophorone	1160		µg/kg wet	165	1670		70	40-130		
1-Methylnaphthalene	1150		µg/kg wet	165	1670		69	40-140		
2-Methylnaphthalene	1180		µg/kg wet	165	1670		71	40-130		
2-Methylphenol	1200		µg/kg wet	165	1670		72	40-130		
3 & 4-Methylphenol	1270		µg/kg wet	165	1670		76	40-130		
Naphthalene	1160		µg/kg wet	165	1670		70	40-130		
2-Nitroaniline	1200		µg/kg wet	165	1670		72	40-130		
3-Nitroaniline	1350		µg/kg wet	165	1670		81	40-130		
4-Nitroaniline	1410		µg/kg wet	660	1670		85	40-130		
Nitrobenzene	1210		µg/kg wet	165	1670		73	40-130		
2-Nitrophenol	1100		µg/kg wet	165	1670		66	40-130		
4-Nitrophenol	1350		µg/kg wet	660	1670		81	40-130		
N-Nitrosodimethylamine	514	QC2	µg/kg wet	165	1670		31	40-130		
N-Nitrosodi-n-propylamine	1340		µg/kg wet	165	1670		80	40-130		
N-Nitrosodiphenylamine	1330		µg/kg wet	165	1670		80	40-130		

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* Reportable Detection Limit BRL - Below Reporting Limit

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060451 - SW846 3550B										
LCS (8060451-BS1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Pentachlorophenol	1310		µg/kg wet	165	1670		79	40-130		
Phenanthrene	1230		µg/kg wet	165	1670		74	40-130		
Phenol	1160		µg/kg wet	165	1670		70	40-130		
Pyrene	1240		µg/kg wet	165	1670		74	40-130		
Pyridine	76.7		µg/kg wet	165	1670		5	0-130		
1,2,4-Trichlorobenzene	1150		µg/kg wet	165	1670		69	40-130		
2,4,5-Trichlorophenol	1270		µg/kg wet	165	1670		76	40-130		
2,4,6-Trichlorophenol	1260		µg/kg wet	165	1670		76	40-130		
Pentachloronitrobenzene	1300		µg/kg wet	165	1670		78	40-140		
1,2,4,5-Tetrachlorobenzene	1050		µg/kg wet	165	1670		63	40-140		
Surrogate: 2-Fluorobiphenyl	*1180*		µg/kg wet		*1670*		*71*	*30-130*		
Surrogate: 2-Fluorophenol	*1100*		µg/kg wet		*1670*		*66*	*15-110*		
Surrogate: Nitrobenzene-d5	*1150*		µg/kg wet		*1670*		*69*	*30-130*		
Surrogate: Phenol-d5	*1240*		µg/kg wet		*1670*		*74*	*15-110*		
Surrogate: Terphenyl-d14	*1150*		µg/kg wet		*1670*		*69*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1380*		µg/kg wet		*1670*		*83*	*15-110*		
Duplicate (8060451-DUP1) **Source: SA79633-10**										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Acenaphthene	BRL		µg/kg dry	368		BRL				50
Acenaphthylene	BRL		µg/kg dry	368		BRL				50
Aniline	BRL		µg/kg dry	368		BRL				50
Anthracene	BRL		µg/kg dry	368		BRL				50
Atrazine	BRL		µg/kg dry	368		BRL				50
Azobenzene/Diphenyldiazine	BRL		µg/kg dry	368		BRL				50
Benzidine	BRL		µg/kg dry	368		BRL				50
Benzo (a) anthracene	BRL		µg/kg dry	368		BRL				50
Benzo (a) pyrene	BRL		µg/kg dry	368		BRL				50
Benzo (b) fluoranthene	BRL		µg/kg dry	368		BRL				50
Benzo (g,h,i) perylene	BRL		µg/kg dry	368		BRL				50
Benzo (k) fluoranthene	BRL		µg/kg dry	368		BRL				50
Benzoic acid	BRL		µg/kg dry	368		BRL				50
Benzyl alcohol	BRL		µg/kg dry	368		BRL				50
Bis(2-chloroethoxy)methane	BRL		µg/kg dry	368		BRL				50
Bis(2-chloroethyl)ether	BRL		µg/kg dry	368		BRL				50
Bis(2-chloroisopropyl)ether	BRL		µg/kg dry	368		BRL				50
Bis(2-ethylhexyl)phthalate	BRL		µg/kg dry	368		BRL				50
4-Bromophenyl phenyl ether	BRL		µg/kg dry	368		BRL				50
Butyl benzyl phthalate	BRL		µg/kg dry	368		BRL				50
Carbazole	BRL		µg/kg dry	368		BRL				50
4-Chloro-3-methylphenol	BRL		µg/kg dry	368		BRL				50
4-Chloroaniline	BRL		µg/kg dry	368		BRL				50
2-Chloronaphthalene	BRL		µg/kg dry	368		BRL				50
2-Chlorophenol	BRL		µg/kg dry	368		BRL				50
4-Chlorophenyl phenyl ether	BRL		µg/kg dry	368		BRL				50
Chrysene	BRL		µg/kg dry	368		BRL				50
Dibenzo (a,h) anthracene	BRL		µg/kg dry	368		BRL				50
Dibenzofuran	BRL		µg/kg dry	368		BRL				50
1,2-Dichlorobenzene	BRL		µg/kg dry	368		BRL				50
1,3-Dichlorobenzene	BRL		µg/kg dry	368		BRL				50
1,4-Dichlorobenzene	BRL		µg/kg dry	368		BRL				50

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060451 - SW846 3550B										
Duplicate (8060451-DUP1) Source: SA79633-10										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
3,3'-Dichlorobenzidine	BRL		µg/kg dry	368		BRL				50
2,4-Dichlorophenol	BRL		µg/kg dry	368		BRL				50
Diethyl phthalate	BRL		µg/kg dry	368		BRL				50
Dimethyl phthalate	BRL		µg/kg dry	368		BRL				50
2,4-Dimethylphenol	BRL		µg/kg dry	368		BRL				50
Di-n-butyl phthalate	BRL		µg/kg dry	368		BRL				50
4,6-Dinitro-2-methylphenol	BRL		µg/kg dry	368		BRL				50
2,4-Dinitrophenol	BRL		µg/kg dry	368		BRL				50
2,4-Dinitrotoluene	BRL		µg/kg dry	368		BRL				50
2,6-Dinitrotoluene	BRL		µg/kg dry	368		BRL				50
Di-n-octyl phthalate	BRL		µg/kg dry	368		BRL				50
Fluoranthene	BRL		µg/kg dry	368		48.6				50
Fluorene	BRL		µg/kg dry	368		BRL				50
Hexachlorobenzene	BRL		µg/kg dry	368		BRL				50
Hexachlorobutadiene	BRL		µg/kg dry	368		BRL				50
Hexachlorocyclopentadiene	BRL		µg/kg dry	368		BRL				50
Hexachloroethane	BRL		µg/kg dry	368		BRL				50
Indeno (1,2,3-cd) pyrene	BRL		µg/kg dry	368		BRL				50
Isophorone	BRL		µg/kg dry	368		BRL				50
1-Methylnaphthalene	BRL		µg/kg dry	368		BRL				50
2-Methylnaphthalene	BRL		µg/kg dry	368		BRL				50
2-Methylphenol	BRL		µg/kg dry	368		BRL				50
3 & 4-Methylphenol	BRL		µg/kg dry	368		BRL				50
Naphthalene	BRL		µg/kg dry	368		BRL				50
2-Nitroaniline	BRL		µg/kg dry	368		BRL				50
3-Nitroaniline	BRL		µg/kg dry	368		BRL				50
4-Nitroaniline	BRL		µg/kg dry	1470		BRL				50
Nitrobenzene	BRL		µg/kg dry	368		BRL				50
2-Nitrophenol	BRL		µg/kg dry	368		BRL				50
4-Nitrophenol	BRL		µg/kg dry	1470		BRL				50
N-Nitrosodimethylamine	BRL		µg/kg dry	368		BRL				50
N-Nitrosodi-n-propylamine	BRL		µg/kg dry	368		BRL				50
N-Nitrosodiphenylamine	BRL		µg/kg dry	368		BRL				50
Pentachlorophenol	BRL		µg/kg dry	368		BRL				50
Phenanthrene	BRL		µg/kg dry	368		BRL				50
Phenol	BRL		µg/kg dry	368		BRL				50
Pyrene	BRL		µg/kg dry	368		46.7				50
Pyridine	BRL		µg/kg dry	368		BRL				50
1,2,4-Trichlorobenzene	BRL		µg/kg dry	368		BRL				50
2,4,5-Trichlorophenol	BRL		µg/kg dry	368		BRL				50
2,4,6-Trichlorophenol	BRL		µg/kg dry	368		BRL				50
Pentachloronitrobenzene	BRL		µg/kg dry	368		BRL				50
1,2,4,5-Tetrachlorobenzene	BRL		µg/kg dry	368		BRL				50
Surrogate: 2-Fluorobiphenyl	*1130*		µg/kg dry		*1860*		*61*	*30-130*		
Surrogate: 2-Fluorophenol	*1240*		µg/kg dry		*1860*		*67*	*15-110*		
Surrogate: Nitrobenzene-d5	*1160*		µg/kg dry		*1860*		*62*	*30-130*		
Surrogate: Phenol-d5	*1260*		µg/kg dry		*1860*		*68*	*15-110*		
Surrogate: Terphenyl-d14	*1140*		µg/kg dry		*1860*		*61*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1260*		µg/kg dry		*1860*		*68*	*15-110*		
Matrix Spike (8060451-MS1) Source: SA79633-10										

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060451 - SW846 3550B										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Acenaphthene	1330		µg/kg dry	183	1850	BRL	72	40-140		
Benzo (b) fluoranthene	1340		µg/kg dry	183	1850	BRL	73	40-140		
Benzo (k) fluoranthene	1390		µg/kg dry	183	1850	BRL	75	40-140		
4-Chloro-3-methylphenol	1380		µg/kg dry	183	1850	BRL	75	30-130		
2-Chlorophenol	1250		µg/kg dry	183	1850	BRL	68	30-130		
Chrysene	1390		µg/kg dry	183	1850	BRL	75	40-140		
1,4-Dichlorobenzene	1480		µg/kg dry	183	1850	BRL	80	40-140		
Indeno (1,2,3-cd) pyrene	1200		µg/kg dry	183	1850	BRL	65	40-140		
Naphthalene	1240		µg/kg dry	183	1850	BRL	67	40-140		
4-Nitrophenol	1430		µg/kg dry	733	1850	BRL	77	30-130		
N-Nitrosodi-n-propylamine	1410		µg/kg dry	183	1850	BRL	76	40-140		
Pentachlorophenol	1390		µg/kg dry	183	1850	BRL	75	30-130		
Phenol	1220		µg/kg dry	183	1850	BRL	66	30-130		
Pyrene	1390		µg/kg dry	183	1850	45.7	72	40-140		
1,2,4-Trichlorobenzene	1210		µg/kg dry	183	1850	BRL	65	40-140		
Surrogate: 2-Fluorobiphenyl	*1260*		µg/kg dry		*1850*		*68*	*30-130*		
Surrogate: 2-Fluorophenol	*1160*		µg/kg dry		*1850*		*62*	*15-110*		
Surrogate: Nitrobenzene-d5	*1230*		µg/kg dry		*1850*		*67*	*30-130*		
Surrogate: Phenol-d5	*1300*		µg/kg dry		*1850*		*70*	*15-110*		
Surrogate: Terphenyl-d14	*1220*		µg/kg dry		*1850*		*66*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1500*		µg/kg dry		*1850*		*81*	*15-110*		
Matrix Spike Dup (8060451-MSD1) Source: SA79633-10										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
Acenaphthene	1330		µg/kg dry	183	1850	BRL	72	40-140	0.6	30
Benzo (b) fluoranthene	1380		µg/kg dry	183	1850	BRL	75	40-140	3	30
Benzo (k) fluoranthene	1600		µg/kg dry	183	1850	BRL	86	40-140	14	30
4-Chloro-3-methylphenol	1370		µg/kg dry	183	1850	BRL	74	30-130	0.7	30
2-Chlorophenol	1270		µg/kg dry	183	1850	BRL	68	30-130	1	30
Chrysene	1520		µg/kg dry	183	1850	BRL	82	40-140	9	30
1,4-Dichlorobenzene	1470		µg/kg dry	183	1850	BRL	80	40-140	0.2	30
Indeno (1,2,3-cd) pyrene	1260		µg/kg dry	183	1850	BRL	68	40-140	5	30
Naphthalene	1240		µg/kg dry	183	1850	BRL	67	40-140	0.03	30
4-Nitrophenol	1470		µg/kg dry	732	1850	BRL	79	30-130	3	30
N-Nitrosodi-n-propylamine	1430		µg/kg dry	183	1850	BRL	77	40-140	1	30
Pentachlorophenol	1470		µg/kg dry	183	1850	BRL	80	30-130	6	30
Phenol	1220		µg/kg dry	183	1850	BRL	66	30-130	0.7	30
Pyrene	1450		µg/kg dry	183	1850	45.7	76	40-140	5	30
1,2,4-Trichlorobenzene	1200		µg/kg dry	183	1850	BRL	65	40-140	1	30
Surrogate: 2-Fluorobiphenyl	*1130*		µg/kg dry		*1850*		*61*	*30-130*		
Surrogate: 2-Fluorophenol	*1040*		µg/kg dry		*1850*		*56*	*15-110*		
Surrogate: Nitrobenzene-d5	*1100*		µg/kg dry		*1850*		*59*	*30-130*		
Surrogate: Phenol-d5	*1180*		µg/kg dry		*1850*		*64*	*15-110*		
Surrogate: Terphenyl-d14	*1150*		µg/kg dry		*1850*		*62*	*30-130*		
Surrogate: 2,4,6-Tribromophenol	*1350*		µg/kg dry		*1850*		*73*	*15-110*		

Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060508 - SW846 3550B										
Blank (8060508-BLK1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
PCB 1016	BRL		µg/kg wet	20.0						
PCB 1221	BRL		µg/kg wet	20.0						
PCB 1232	BRL		µg/kg wet	20.0						
PCB 1242	BRL		µg/kg wet	20.0						
PCB 1248	BRL		µg/kg wet	20.0						
PCB 1254	BRL		µg/kg wet	20.0						
PCB 1260	BRL		µg/kg wet	20.0						
PCB 1262	BRL		µg/kg wet	20.0						
PCB 1268	BRL		µg/kg wet	20.0						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.6*		µg/kg wet		*20.0*		*98*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.0*		µg/kg wet		*20.0*		*105*	*30-150*		
LCS (8060508-BS1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
PCB 1016	274		µg/kg wet	20.0	250		110	40-140		
PCB 1260	279		µg/kg wet	20.0	250		112	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.2*		µg/kg wet		*20.0*		*101*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.3*		µg/kg wet		*20.0*		*106*	*30-150*		
LCS Dup (8060508-BSD1)										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
PCB 1016	254		µg/kg wet	20.0	250		102	40-140	8	30
PCB 1260	261		µg/kg wet	20.0	250		104	40-140	7	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*19.7*		µg/kg wet		*20.0*		*98*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*19.5*		µg/kg wet		*20.0*		*98*	*30-150*		
Duplicate (8060508-DUP1) **Source: SA79633-03**										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
PCB 1016	BRL		µg/kg dry	20.9		BRL				40
PCB 1221	BRL		µg/kg dry	20.9		BRL				40
PCB 1232	BRL		µg/kg dry	20.9		BRL				40
PCB 1242	BRL		µg/kg dry	20.9		BRL				40
PCB 1248	BRL		µg/kg dry	20.9		BRL				40
PCB 1254	BRL		µg/kg dry	20.9		BRL				40
PCB 1260	46.4		µg/kg dry	20.9		38.6			18	40
PCB 1262	BRL		µg/kg dry	20.9		BRL				40
PCB 1268	BRL		µg/kg dry	20.9		BRL				40
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*20.6*		µg/kg dry		*20.9*		*99*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.7*		µg/kg dry		*20.9*		*99*	*30-150*		
Matrix Spike (8060508-MS1) **Source: SA79633-03**										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
PCB 1016	286		µg/kg dry	21.1	263	BRL	109	40-140		
PCB 1260	292		µg/kg dry	21.1	263	38.6	96	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.5*		µg/kg dry		*21.1*		*102*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*21.3*		µg/kg dry		*21.1*		*101*	*30-150*		
Matrix Spike Dup (8060508-MSD1) **Source: SA79633-03**										
Prepared: 06-Jun-08 Analyzed: 09-Jun-08										
PCB 1016	289		µg/kg dry	21.0	262	BRL	111	40-140	1	50
PCB 1260	294		µg/kg dry	21.0	262	38.6	98	40-140	1	50
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	*21.1*		µg/kg dry		*20.9*		*101*	*30-150*		
Surrogate: Decachlorobiphenyl (Sr)	*20.6*		µg/kg dry		*20.9*		*99*	*30-150*		

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1 PAGE 154 OF 185

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060450 - SW846 3550B										
Blank (8060450-BLK1)										
Prepared: 06-Jun-08 Analyzed: 10-Jun-08										
Gasoline	BRL		mg/kg wet	13.3						
Fuel Oil #2	BRL		mg/kg wet	13.3						
Fuel Oil #4	BRL		mg/kg wet	13.3						
Fuel Oil #6	BRL		mg/kg wet	13.3						
Motor Oil	BRL		mg/kg wet	13.3						
Aviation Fuel	BRL		mg/kg wet	13.3						
Unidentified	BRL		mg/kg wet	13.3						
Other Oil	BRL		mg/kg wet	13.3						
Total Petroleum Hydrocarbons	BRL		mg/kg wet	13.3						
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg wet	13.3						
Surrogate: 1-Chlorooctadecane	*1.77*		mg/kg wet		*3.33*		*53*	*50-150*		
LCS (8060450-BS1)										
Prepared: 06-Jun-08 Analyzed: 10-Jun-08										
C9-C36 Aliphatic Hydrocarbons	103		mg/kg wet	13.3	93.3		110	60-120		
Surrogate: 1-Chlorooctadecane	*1.85*		mg/kg wet		*3.33*		*55*	*50-150*		
Duplicate (8060450-DUP1) **Source: SA79633-10**										
Prepared: 06-Jun-08 Analyzed: 10-Jun-08										
Gasoline	BRL		mg/kg dry	14.8		BRL				50
Fuel Oil #2	BRL		mg/kg dry	14.8		BRL				50
Fuel Oil #4	BRL		mg/kg dry	14.8		BRL				50
Fuel Oil #6	BRL		mg/kg dry	14.8		BRL				50
Motor Oil	BRL		mg/kg dry	14.8		BRL				50
Aviation Fuel	BRL		mg/kg dry	14.8		BRL				50
Unidentified	BRL		mg/kg dry	14.8		BRL				50
Other Oil	BRL		mg/kg dry	14.8		BRL				50
Total Petroleum Hydrocarbons	BRL		mg/kg dry	14.8		BRL				50
C9-C36 Aliphatic Hydrocarbons	BRL		mg/kg dry	14.8		BRL				50
Surrogate: 1-Chlorooctadecane	*0.943*		mg/kg dry		*1.86*		*51*	*50-150*		
Matrix Spike (8060450-MS1) **Source: SA79633-10**										
Prepared: 06-Jun-08 Analyzed: 10-Jun-08										
C9-C36 Aliphatic Hydrocarbons	101		mg/kg dry	14.6	102	BRL	99	50-150		
Surrogate: 1-Chlorooctadecane	*1.92*		mg/kg dry		*3.65*		*53*	*50-150*		
Matrix Spike Dup (8060450-MSD1) **Source: SA79633-10**										
Prepared: 06-Jun-08 Analyzed: 10-Jun-08										
C9-C36 Aliphatic Hydrocarbons	102		mg/kg dry	14.8	104	BRL	98	50-150	1	30
Surrogate: 1-Chlorooctadecane	*1.97*		mg/kg dry		*3.70*		*53*	*50-150*		

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ADDENDUM NUMBER 1

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060461 - SW846 3050B										
Blank (8060461-BLK1)										
Prepared: 10-Jun-08 Analyzed: 11-Jun-08										
Selenium	BRL		mg/kg wet	1.43						
Lead	BRL		mg/kg wet	1.43						
Arsenic	BRL		mg/kg wet	1.43						
Chromium	BRL		mg/kg wet	0.952						
Silver	BRL		mg/kg wet	1.43						
Cadmium	BRL		mg/kg wet	0.523						
Barium	BRL		mg/kg wet	0.952						
Duplicate (8060461-DUP1) Source: SA79633-01										
Prepared: 10-Jun-08 Analyzed: 11-Jun-08										
Lead	124		mg/kg dry	1.44		133			7	20
Selenium	0.459	J	mg/kg dry	1.44		0.505			10	20
Silver	BRL		mg/kg dry	1.44		BRL				20
Arsenic	2.06		mg/kg dry	1.44		1.80			13	20
Cadmium	0.402	J	mg/kg dry	0.526		0.411			2	20
Chromium	7.04		mg/kg dry	0.957		6.95			1	20
Barium	49.4		mg/kg dry	0.957		54.0			9	20
Matrix Spike (8060461-MS1) Source: SA79633-02										
Prepared: 10-Jun-08 Analyzed: 12-Jun-08										
Selenium	109		mg/kg dry	1.55	129	1.75	83	75-125		
Lead	368	QM7	mg/kg dry	1.55	129	285	64	75-125		
Arsenic	118		mg/kg dry	1.55	129	6.74	86	75-125		
Chromium	116		mg/kg dry	1.03	129	9.60	83	75-125		
Cadmium	112		mg/kg dry	0.569	129	2.04	85	75-125		
Silver	126		mg/kg dry	1.55	129	2.53	95	75-125		
Barium	371		mg/kg dry	1.03	129	246	97	75-125		
Matrix Spike Dup (8060461-MSD1) Source: SA79633-02										
Prepared: 10-Jun-08 Analyzed: 12-Jun-08										
Selenium	112		mg/kg dry	1.56	130	1.75	85	75-125	2	20
Lead	444		mg/kg dry	1.56	130	285	122	75-125	19	20
Silver	128		mg/kg dry	1.56	130	2.53	96	75-125	2	20
Arsenic	121		mg/kg dry	1.56	130	6.74	88	75-125	2	20
Cadmium	114		mg/kg dry	0.572	130	2.04	86	75-125	2	20
Chromium	120		mg/kg dry	1.04	130	9.60	85	75-125	3	20
Barium	378		mg/kg dry	1.04	130	246	102	75-125	2	20
Post Spike (8060461-PS1) Source: SA79633-02										
Prepared: 10-Jun-08 Analyzed: 12-Jun-08										
Selenium	114		mg/kg dry	1.54	128	1.75	87	80-120		
Chromium	121		mg/kg dry	1.03	128	9.60	87	80-120		
Arsenic	123		mg/kg dry	1.54	128	6.74	91	80-120		
Cadmium	116		mg/kg dry	0.565	128	2.04	89	80-120		
Silver	130		mg/kg dry	1.54	128	2.53	100	80-120		
Barium	379		mg/kg dry	1.03	128	246	104	80-120		
Reference (8060461-SRM1)										
Prepared: 10-Jun-08 Analyzed: 12-Jun-08										
Selenium	92.0		mg/kg wet	1.50	99.2		93	76.8-123.2		
Lead	40.4		mg/kg wet	1.50	36.5		111	77.5-122.4		
Chromium	35.5		mg/kg wet	1.00	38.2		93	80.6-119.3		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060461 - SW846 3050B										
Reference (8060461-SRM1)										
Prepared: 10-Jun-08 Analyzed: 12-Jun-08										
Cadmium	66.1		mg/kg wet	0.550	70.6		94	80.9-119.9		
Arsenic	76.4		mg/kg wet	1.50	78.1		98	79.5-120.5		
Silver	23.5		mg/kg wet	1.50	23.5		100	66.3-133.7		
Barium	204		mg/kg wet	1.00	181		113	82.6-117.1		
Reference (8060461-SRM2)										
Prepared: 10-Jun-08 Analyzed: 12-Jun-08										
Selenium	90.3		mg/kg wet	1.50	100		90	76.8-123.2		
Lead	38.0		mg/kg wet	1.50	37.0		103	77.5-122.4		
Cadmium	64.6		mg/kg wet	0.550	71.5		90	80.9-119.9		
Arsenic	75.4		mg/kg wet	1.50	79.1		95	79.5-120.5		
Silver	23.3		mg/kg wet	1.50	23.8		98	66.3-133.7		
Chromium	34.6		mg/kg wet	1.00	38.7		89	80.6-119.3		
Barium	198		mg/kg wet	1.00	184		108	82.6-117.1		
Batch 8060462 - EPA200/SW7000 Series										
Blank (8060462-BLK1)										
Prepared & Analyzed: 10-Jun-08										
Mercury	BRL		mg/kg wet	0.0300						
Duplicate (8060462-DUP1)	**Source: SA79633-01**									
Prepared & Analyzed: 10-Jun-08										
Mercury	0.181		mg/kg dry	0.0304		0.183			0.9	20
Matrix Spike (8060462-MS1)	**Source: SA79633-02**									
Prepared & Analyzed: 10-Jun-08										
Mercury	0.714		mg/kg dry	0.0319	0.443	0.275	99	75-125		
Matrix Spike Dup (8060462-MSD1)	**Source: SA79633-02**									
Prepared & Analyzed: 10-Jun-08										
Mercury	0.678		mg/kg dry	0.0324	0.450	0.275	90	75-125	5	35
Post Spike (8060462-PS1)	**Source: SA79633-02**									
Prepared & Analyzed: 10-Jun-08										
Mercury	0.771		mg/kg dry	0.0326	0.452	0.275	110	85-115		
Reference (8060462-SRM1)										
Prepared & Analyzed: 10-Jun-08										
Mercury	2.48		mg/kg wet	0.0300	3.04		82	66-135		

SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060584 - SW846 3010A										
Blank (8060584-BLK1)										
Prepared & Analyzed: 09-Jun-08										
Lead	BRL		mg/l	0.0150						
Selenium	BRL		mg/l	0.0300						
Arsenic	BRL		mg/l	0.0080						
Cadmium	BRL		mg/l	0.0050						
Chromium	BRL		mg/l	0.0100						
Silver	BRL		mg/l	0.0100						
Barium	BRL		mg/l	0.0100						
LCS (8060584-BS1)										
Prepared & Analyzed: 09-Jun-08										
Lead	2.58		mg/l	0.0150	2.50		103	82.9-108		
Selenium	2.58		mg/l	0.0300	2.50		103	78-114		
Silver	2.38		mg/l	0.0100	2.50		95	69.8-122		
Arsenic	2.54		mg/l	0.0080	2.50		101	81.1-111		
Cadmium	2.51		mg/l	0.0050	2.50		101	89.8-116		
Chromium	2.56		mg/l	0.0100	2.50		103	85.5-113		
Barium	2.60		mg/l	0.0100	2.50		104	85-114		
LCS Dup (8060584-BSD1)										
Prepared & Analyzed: 09-Jun-08										
Lead	2.84	QC1	mg/l	0.0150	2.50		114	82.9-108	10	20
Selenium	2.86		mg/l	0.0300	2.50		114	78-114	10	20
Cadmium	2.77		mg/l	0.0050	2.50		111	89.8-116	10	20
Chromium	2.86	QC1	mg/l	0.0100	2.50		114	85.5-113	11	20
Silver	2.64		mg/l	0.0100	2.50		106	69.8-122	10	20
Arsenic	2.81	QC2	mg/l	0.0080	2.50		112	81.1-111	10	20
Barium	2.78		mg/l	0.0100	2.50		111	85-114	7	20
Duplicate (8060584-DUP1)	**Source: SA79639-01**									
Prepared & Analyzed: 09-Jun-08										
Selenium	BRL		mg/l	0.0300		BRL				20
Lead	0.0157	QR6	mg/l	0.0150		0.0114			32	20
Chromium	BRL		mg/l	0.0100		BRL				20
Silver	BRL		mg/l	0.0100		BRL				20
Arsenic	BRL		mg/l	0.0080		BRL				20
Cadmium	0.0005	J	mg/l	0.0050		BRL				20
Barium	BRL		mg/l	0.0100		BRL				20
Matrix Spike (8060584-MS1)	**Source: SA79639-03**									
Prepared & Analyzed: 09-Jun-08										
Selenium	2.69		mg/l	0.0300	2.50	BRL	107	75.5-121		
Lead	2.67		mg/l	0.0150	2.50	0.0412	105	75.2-114		
Silver	2.54		mg/l	0.0100	2.50	BRL	102	86.6-108		
Arsenic	2.64		mg/l	0.0080	2.50	BRL	106	75.5-117		
Cadmium	2.60		mg/l	0.0050	2.50	BRL	104	87.7-116		
Chromium	2.69		mg/l	0.0100	2.50	BRL	108	87.7-113		
Barium	2.74		mg/l	0.0100	2.50	0.0102	109	84.1-114		
Matrix Spike Dup (8060584-MSD1)	**Source: SA79639-03**									
Prepared & Analyzed: 09-Jun-08										
Lead	2.39		mg/l	0.0150	2.50	0.0412	94	75.2-114	11	20
Selenium	2.41		mg/l	0.0300	2.50	BRL	96	75.5-121	11	20

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* Reportable Detection Limit BRL = Below Reporting Limit

ADDENDUM NUMBER 1

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SPLP Metals by EPA 1312 & 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060584 - SW846 3010A										
Matrix Spike Dup (8060584-MSD1) Source: SA79639-03										
Prepared & Analyzed: 09-Jun-08										
Chromium	2.38		mg/l	0.0100	2.50	BRL	95	87.7-113	12	20
Silver	2.26		mg/l	0.0100	2.50	BRL	90	86.6-108	12	20
Cadmium	2.32		mg/l	0.0050	2.50	BRL	93	87.7-116	11	20
Arsenic	2.36		mg/l	0.0080	2.50	BRL	95	75.5-117	11	20
Barium	2.42		mg/l	0.0100	2.50	0.0102	96	84.1-114	13	20
Post Spike (8060584-PS1) Source: SA79639-03										
Prepared & Analyzed: 09-Jun-08										
Selenium	2.81		mg/l	0.0300	2.50	BRL	112	79.7-119		
Cadmium	2.71		mg/l	0.0050	2.50	BRL	109	94.8-112		
Arsenic	2.76		mg/l	0.0080	2.50	BRL	110	83.2-113		
Chromium	2.62		mg/l	0.0100	2.50	BRL	113	90.2-113		
Silver	2.63		mg/l	0.0100	2.50	BRL	105	92.2-106		
Batch 8060585 - EPA200/SW7000 Series										
Blank (8060585-BLK1)										
Prepared: 09-Jun-08 Analyzed: 10-Jun-08										
Mercury	BRL		mg/l	0.00020						
LCS (8060585-BS1)										
Prepared: 09-Jun-08 Analyzed: 10-Jun-08										
Mercury	0.00510		mg/l	0.00020	0.00500		102	60-122		
Duplicate (8060585-DUP1) Source: SA79633-01										
Prepared: 09-Jun-08 Analyzed: 10-Jun-08										
Mercury	BRL		mg/l	0.00020		BRL				20
Matrix Spike (8060585-MS1) Source: SA79633-02										
Prepared: 09-Jun-08 Analyzed: 10-Jun-08										
Mercury	0.00530		mg/l	0.00020	0.00500	BRL	106	61.5-123		
Matrix Spike Dup (8060585-MSD1) Source: SA79633-02										
Prepared: 09-Jun-08 Analyzed: 10-Jun-08										
Mercury	0.00502		mg/l	0.00020	0.00500	BRL	100	61.5-123	6	35
Post Spike (8060585-PS1) Source: SA79633-02										
Prepared: 09-Jun-08 Analyzed: 10-Jun-08										
Mercury	0.00536		mg/l	0.00020	0.00500	BRL	107	74.7-114		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 8060511 - General Preparation										
Duplicate (8060511-DUP1) Source: SA79626-01										
Prepared & Analyzed: 06-Jun-08										
% Solids	93.4		%			93.1			0.3	20

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* Reportable Detection Limit BRL = Below Reporting Limit

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Notes and Definitions

QC1	Analyte out of acceptance range.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QR8	Analyses are not controlled on RPD values from sample concentrations that are less than 5 times the reporting level. The batch is accepted based upon the difference between the sample and duplicate is less than or equal to the reporting limit.
R05	Elevated Reporting Limits due to the presence of high levels of non-target analytes.
SGC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
BRL	Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

Gasoline - includes regular, unleaded, premium, etc.
Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
Fuel Oil #4 - includes #4 fuel oil
Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
Motor Oil - includes virgin, waste automobile oil and hydraulic oil
Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
Aviation Fuel - includes kerosene, Jet A and JP-4
Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as *TPH (Calculated as).

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.
Nicole Brown

Reasonable Confidence Protocols
Laboratory Analysis
QA/QC Certification Form

Laboratory Name:	Spectrum Analytical, Inc. - Agawam, MA	**Client:**	Logical Environmental Solutions
Project Location:	New Haven Regional Fire Academy - CT	**Project Number:**	B1-FP-008A
Sampling Date(s): 03-Jun-08		**Laboratory Sample ID(s):** SA79633-01 through SA79633-11	

RCP Methods Used: *CT ETPH; SW 846 8260B; SW846 1312; SW846 1312/6010B; SW846 1312/7470A; SW846 6010B; SW846 7471A; SW846 8082; SW846 8270C

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	***VPH and EPH methods only***: Was the VPH or EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)? * * *These methods have not yet been approved for release by CT DEP*	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5	a) Were reporting limits specified or referenced on the chain-of-custody? * b) Were these reporting limits met? * *Exceptions are defined by qualifiers*	☑ Yes ☐ No ☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Note: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for obtaining the information contained in this analytical report, such information is accurate and complete.

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Date: 6/12/2008

ADDENDUM NUMBER 1 PAGE 162 OF 163

CHAIN OF CUSTODY RECORD

Page 1 of 2

SPECTRUM ANALYTICAL INC.
Combining
RAMBOLL ENVIRONMENTAL

Special Handling:
☒ Standard TAT
☐ Rush TAT Date Needed

Report to: Cindy Knight
LES
334 S River Rd
Tolland CT 06084

Project Mgr: Bruce Carver CTDPW

Invoice to: State of CT DPW
DAS Contract
c/o LES

PO No: 7136

Project No: BI FP 008A
Site Name: New Haven Regional Rec Academy
Location: New Haven
State: CT
Sampler(s): C Knight

1-NaSO2 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Ascorbic Acid
7-CH3OH 8-NaHSO4 9- 10-
DW-Drinking Water GW-Groundwater WW-Wastewater
O-Oil SW-Surface Water SO-Soil SL-Sludge A-Air
X1 X2 X3

G-Grab C-Composite

Lab Id	Sample Id	Date	Time	Type	Matrix	Preservative	Containers	Analyses
[illegible]	GP-1 2.5'	6-3-08		C	SO	3		X VOCs 8260 X ASCLA 8270 X CTETPH X PCB 8082 X TOTAL RCRA 8 X SMP RCRA 8 X
[illegible]	GP-2 2.5'							
[illegible]	GP-3 2.5'							
[illegible]	GP-4 2.5'							
[illegible]	GP-5 2.5'							
[illegible]	GP-6 2.5'							
[illegible]	GP-7 2.5'							
[illegible]	GP-8 2.5'							
[illegible]	GP-9 2.5'							
[illegible]	GP-10 2.5'							

QA Reporting Notes
☐ Provide MADEP MCP Data
☒ Provide Data for Data Pages
QA QC Reporting Level
☐ Standard ☐ Other
Data Pages
CTDEP GA PMC & RDM

rebecca.cutler@ct.gov
☐ Fax results when available (ref)
☒ Email to: ck@lingcutenv.commental.com
EDD Format: PDF

Condition upon receipt: ☐ Ice ☐ Ambient ☐ 39°

Relinquished by	Received by	Date	Time
[signature]	[signature]	6-4-08	1000
[signature]	[signature]	6/4/08	1410

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrumanalytical.com

APPENDUM NUMBER 1 PAGE 163 OF 185

CHAIN OF CUSTODY RECORD

Page 2 of 2

SA Project # [illegible]

Special Handling
- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed:

All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes. Samples disposed of after 60 days unless otherwise requested.

Report To: C. Knight
LES
39 E. River Rd.
Tolland CT 06084
Project Mgr: Becky Cotter - DPW

Invoice To: State of Ct DPW
DAS Contract
LES
PO No: 7136 BOL:

Project No: BE-FP-008A
Site Name: New Haven Regional Fire Academy
Location: New Haven State: CT
Sampled by: C. Knight

Preservative: 1=NaOH 2=HCl 3=H2SO4 4=HNO3 5=NaOH 6=Ascorbic Acid 7=CH3OH 8=NaHSO4 9= 10=
Matrix: DW=Drinking Water GW=Groundwater WW=Wastewater OthW=Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=
Containers: G=Grab C=Composite

Lab Id.	Sample Id.	Date	Time	Type	Matrix	Preservative	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic
[illegible]	[illegible]	6-3-08		C	SO		3	1		

Analyses: VPHs 8260 | SVOCs 8270 | CT ETPH | PCBs 8082 | Total Metals | SPLP Metals

QA Reporting Notes (check if needed)
- ☐ Provide MA MCP or CT RCP Forms
- ☐ Provide EPH & VPH Report

QA/QC Reporting Level
- ☐ Screening ☐ Non-QC
- ☐ Other

State where samples originated: CONN GA Pax + RIDEM

Rebecca.cotter@ct.gov
☐ Copy/Fax also available to:
☒ E-mail to ck@legalenvironmental.com
EDD Format: PDF

Condition upon receipt: ☐ Iced ☐ Ambient ☐ T 3.9°

Relinquished by:	Received by:	Date	Time
[signature]	[signature]	6-4-08	1000
[signature]	[signature]	6/4/08	1462

11 Almgren Drive • Agawam, Massachusetts 01001 • 413-789-9018 • Fax 413-789-4076 • www.spectrum-analytical.com

ADDENDUM NUMBER 1

PAGE 16 OF 18

ATTACHMENT "C"

LIMITED ASBESTOS SURVEY REPORT FOR THE DRILL TOWER

PAYNE INTEROFFICE MEMO

DATE: 12/18/03

TO: SEB ASADOUVIAN-CITY OF NEW HAVEN PROJECT ENGINEER VIA FAX: 946.8093

CC:

FROM: KATHLEEN PANE-PAYNE ENVIRONMENTAL, LLC

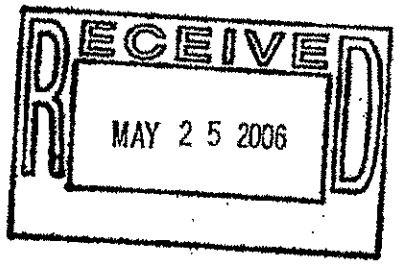
RE: NEW HAVEN REGIONAL FIRE TRAINING ACADEMY-BUILDING ONE-UPPER ROOF
230 ELLA GRASSO BOULEVARD NEW HAVEN, CONNECTICUT

Seb,

PAYNE conducted a limited inspection of suspect asbestos-containing roofing materials at the above referenced Site on November 24, 2003. A memo concerning sample results dated December 1, 2003 was forwarded to you via facsimile.

According to the laboratory analytical results the main body (entire built up roofing system) and associated roof flashings (perimeter, seams, etc.) are asbestos-containing materials. Due to the nature of the roofing system and extent of asbestos-containing materials the **entire roof system** should be removed and disposed of as asbestos-containing materials.

Sincerely,
PAYNE Environmental, LLC
Kathleen C. Pane
Project Manager



Payne Environmental, LLC
85 Willow Street
New Haven, Connecticut 06511

Voice: 203.865.1285
Facsimile: 203.865.1286
Email: kpane@paynecorp.com

12/18/03 THU 22:10 [TX/RX NO 5531] 001

ADDENDUM NUMBER 1

PAYNE INTEROFFICE MEMO

DATE: 6/21/02

TO: SEB ASADOUVIAN-CITY OF NEW HAVEN PROJECT ENGINEER VIA FACSIMILE: 946.8093

CC:

FROM: KATHLEEN PANE-PAYNE ENVIRONMENTAL, LLC KP

RE: NEW HAVEN REGIONAL FIRE TRAINING ACADEMY-BUILDING ONE
230 ELLA GRASSO BOULEVARD NEW HAVEN, CONNECTICUT

Seb,

PAYNE conducted a limited inspection of suspect asbestos-containing roofing materials at the subject facility on June 14, 2002. PAYNE collected three samples of black roof flashing material and three samples of black tar paper. Samples were analyzed at EMSL Analytical, Inc. (Westmont, NJ). According to the laboratory analysis conducted by EMSL, the black roof flashing is an asbestos-containing material. PAYNE collected these samples from the lower portion of the roof. The upper portion of the roof appeared to have the same construction and according to the facility was constructed at the same time as the lower portion of the roof.

The asbestos-containing black flashing material was observed around a skylight, hatchway and such areas that required the material for sealing purposes.

The contractor should quantify asbestos-containing flashing on the roof. Upon request PAYNE can quantify, locate and verify areas where the asbestos-containing flashing is present. All asbestos-containing flashing that will be disturbed and/or will be part of renovation should be removed properly in accordance with federal and state regulations.

I have attached a copy of the laboratory analysis for this limited inspection for your review. Please feel free to contact me at anytime.

Sincerely,

Kathleen C. Pane

Project Engineer

Post-it® Fax Note 7671	Date 12/2/03	# of pages ▶ 5
To Seb Asadouvian	From K. Pane	
Co./Dept. Dept. Eng. New Haven	Co. Payne Env.	
Phone #	Phone #	
Fax # 946-8093	Fax # 865.1286	

re-issue per Seb's request

Payne Environmental, LLC
400 Prospect Street
New Haven, Connecticut 06511

Voice: 203.421.2288
Facsimile: 203.421.2289
Email: npayne@paynecorp.com

EMSL Analytical, Inc.
Revised July 1, 1999

CHAIN OF CUSTODY

Asbestos

EMSL Rep:	Joe Franca		Third Party Billing requires written authorization from third party
Your Company Name:	Payne Environmental, LLC	EMSL-Bill to:	PAYNE50
Street:	P.O. Box 1190	Street:	Same as report to address
Box #:		Box #:	
City/State:	Madison, CT Zip: 06443-1190	City/State:	Zip:
Phone Results to: Name:	Neil G. Payne	Fax Results to: Name:	Neil G. Payne
Telephone #:	203.421.2288	Fax #:	203.865.1286 or 203.421.2289
Project Name/Number:	New Haven Regional Fire Training Academy 230 Ella Grasso Boulevard New Haven, Connecticut, City of New Haven Engineering Department 02.142/001	Purchase Order #:	

MATRIX

☐ Air	☐ Floor Tile	☐ Soil
☒ Bulk	☐ Drinking Water	☐ Dust
☐ Wipe	☐ Wastewater	☐ Micro-Vac

TURNAROUND

☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☐ 24 Hours 1 day
☐ 48 Hours 2 days	☐ 72 Hours 3 days	☒ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ 144+ hours 6-10 Days			

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon - Fri.), Please Refer to Price Quote

PCM - Air
- ☐ NIOSH 7400
- ☐ OSHA
- ☐ Other:

TEM AIR
- ☐ AHERA
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM WATER
- ☐ Wastewater
- ☐ Drinking Water EPA 100.1
- ☐ Water - NY Wastewater
- ☐ Water-NY Drinking Water

PLM - Bulk
- ☒ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric) NY 198.1
- ☐ Other:

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield
- ☐ TEM NOB (Gravimetric) NY 198.4

TEM MICROVAC / WIPE
- ☐ ASTM D 5755-95 quantitative method

XRD
- ☐ Asbestos
- ☐ Silica

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

* STOP ANALYSIS AFTER 1ST POSITIVE DETECTED AMONG SAMPLE GROUPS.

OTHER
- ☐

Client Sample # (s) PE-02-0614-01A → 02C Total Samples #: 6

Relinquished: [signature] Date: 6/14/02 Time: 6:30pm

Received: [signature] Date: Time:

NB

1

Sent By: HP LaserJet 3100; 203 421 2288 ; EMSL ANALYTICAL Jun-21-02 7:18; Page 5/6 PAGE 02/6

12/02/03 TUE 16:23 [TX/RX NO 5456] 002

ADDENDUM NUMBER 1 PAGE 168 OF 185

EMSL Analytical, Inc.
Revised July 1, 1999

CHAIN OF CUSTODY

Asbestos

SAMPLE NUMBER	LOCATION	MATRIX
AE-02-0614-01A,B,C	Building one, lower roof	Black perimeter roof flashing
-02A,B,C		Black paper from mock body (in top of foam)

2

Sent By: HP LaserJet 3100; 203 421 2288 ; Jun-21-02 2:18; Page 6/6
EMSL ANALYTICAL PAGE 03/07

EMSL Analytical, Inc.
107 Hudson Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4850 Email: [illegible]@EMSL.com

EMSL

Attn: Neil G. Payne
Payne Environmental, LLC
P.O. BOX 1190
Madison, CT 06443-1190
Fax: (203) 421-2289 Phone: 203-421-2289
Project: New Haven Regional Fire Training Academy
230 Ella Grasso BLVD.
New Haven, CT
City of New Haven Engineering Dept.

Customer ID: PAYNE50
Customer PO:
Received: 06/17/02 9:53 AM
EMSL Order: 040206610
EMSL Project ID:

Analysis Date: 6/20/02

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
01A 040206610-0001	Bldg. One, Lower Roof	Brown/Black Fibrous Heterogeneous	Teased		95% Non-fibrous (other)	5% Chrysotile
01B 040206610-0002	Bldg. One, Lower Roof		NOT ANALYZED			
01C 040206610-0003	Bldg. One, Lower Roof		NOT ANALYZED			
02A 040206610-0004	Bldg. One, Lower Roof	Brown/Black Fibrous Heterogeneous	Teased	40% Cellulose	60% Non-fibrous (other)	None Detected
02B 040206610-0005	Bldg. One, Lower Roof	Brown/Black Fibrous Heterogeneous	Teased	40% Cellulose	60% Non-fibrous (other)	None Detected
02C 040206610-0006	Bldg. One, Lower Roof	Brown/Black Fibrous Heterogeneous	Teased	40% Cellulose	60% Non-fibrous (other)	None Detected

Analyst(s)
Dave Polinas (6)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Westmont NVLAP #101040-0, NY NLAP 10872

PAGE 1

Sent By: HP LaserJet 3100; 203 421 2289 ; Jun-21-02 7:16; Page 4/8
EMSL ANALYTICAL
12/02/03 TUE 16:23 [TX/RX NO 5458] 004
ADDENDUM NUMBER 1 PAGE 170 OF 185

PAYNE INTEROFFICE MEMO

DATE: 12/01/03

TO: SEB ASADOUVIAN-CITY OF NEW HAVEN PROJECT ENGINEER VIA FAX: 946.8093

CC:

FROM: KATHLEEN PANE-PAYNE ENVIRONMENTAL, LLC

RE: NEW HAVEN REGIONAL FIRE TRAINING ACADEMY-BUILDING ONE-UPPER ROOF
230 ELLA GRASSO BOULEVARD NEW HAVEN, CONNECTICUT

Seb,

PAYNE conducted a limited inspection of suspect asbestos-containing roofing materials at the above referenced Site on November 24, 2003. PAYNE collected bulk samples of suspect asbestos-containing materials associated with the upper roof. Samples were analyzed at EMSL Analytical, Inc. (Westmont, NJ) by Polarized Light Microscopy (PLM) bulk analysis. According to the laboratory analysis conducted by EMSL, the following was observed:

ND=no asbestos detected

SAMPLE #	LOCATION	DESCRIPTION	RESULT
FA-01 A	building 1-upper roof-perimeter	black roof flashing on top of metal perimeter flashing	20% Chrysotile
FA-02 A-C	building 1-upper roof-ventilator base	black roof flashing	ND
FA-03 A	building 1-upper roof-around door/hatch to access roof	black roof flashing	5% Chrysotile
FA-04 A	building 1-upper roof-main body	black roof felts	2% Chrysotile
FA-05 A-C	building 1-upper roof-perimeter	black roof felts under perimeter metal flashing	ND

According to the laboratory analytical results the main body roof felts and roof flashings are asbestos-containing materials. All asbestos-containing roofing materials should be removed in accordance with federal regulations.

I have attached a copy of the laboratory analytical results for your review. Please feel free to contact PAYNE at anytime.

Sincerely,
PAYNE Environmental, LLC
Kathleen C. Pane
Project Engineer

Payne Environmental, LLC
85 Willow Street
New Haven, Connecticut 06511

Voice: 203.865.1285
Facsimile: 203.865.1286
Email: kpane@paynecorp.com

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4850 Email: salegal@EMSL.com

EMSL

Attn: Neil G. Payne
Payne Environmental, LLC.
P.O. BOX 1190
Madison, CT 06443-1190
Fax: (203) 868-1266 Phone: (203) 421-2288
Project: 03.176/001 - CITY OF NEW HAVEN DEPT. OF ENGINEERING 230 ELLA GRASSO BLVD. FIRE ACADEMY BLD 1UPPER ROOF

Customer ID: PAYNE50
Customer PO:
Received: 11/25/03 10:33 AM
EMSL Order: 040320231
EMSL Project ID:
Analysis Date: 11/26/03

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
FA-01A 040320231-0001	UPPER ROOF BLD 1	Black Fibrous Heterogeneous	Teased		80% Non-fibrous (other)	20% Chrysotile
FA-01B 040320231-0002	UPPER ROOF BLD 1					Not Analyzed
-01C 20231-0003	UPPER ROOF BLD 1					Not Analyzed
FA-02A 0320231-0004	BL ROOF AROUND VENTILATOR	Black Non-Fibrous Heterogeneous	Teased		100% Non-fibrous (other)	None Detected
FA-02B 040320231-0005	BL ROOF AROUND VENTILATOR	Black Non-Fibrous Heterogeneous	Teased		100% Non-fibrous (other)	None Detected
FA-02C 040320231-0006	BL ROOF AROUND VENTILATOR	Black Non-Fibrous Heterogeneous	Teased		100% Non-fibrous (other)	None Detected
FA-03A 040320231-0007	BL ROOF AROUND DOOR/HATCH	Black Fibrous Heterogeneous	Teased Dissolved		95% Non-fibrous (other)	5% Chrysotile
FA-03B 040320231-0008	BL ROOF AROUND DOOR/HATCH					Not Analyzed
FA-03C 040320231-0009	BL ROOF AROUND DOOR/HATCH					Not Analyzed

nalyst(s)
Vill DiBella (15)

Stephen Siegel, CIH
or other approved signatory

It has been known to miss asbestos in a small percentage of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test result has not been used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Analysis performed by EMSL Westmont (NVLAP #101048-0), NY ELAP 10872

PLM-1

ADDENDUM NUMBER 1 PAGE 172 OF 185

EMSL Analytical, Inc.
107 Haddon Ave., Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-4810 Email: [redacted]@EMSL.com

Attn: Neil G. Payne
Payne Environmental, LLC.
P.O. BOX 1160
Madison, CT 06443-1160
Fax: (203) 655-1266 Phone: (203) 421-2255
Project: 03.176/001 - CITY OF NEW HAVEN DEPT. OF ENGINEERING 230 ELLA GRASSO BLVD. FIRE ACADEMY BLD 1UPPER ROOF

Customer ID: PAYNE50
Customer PO:
Received: 11/25/03 10:30 AM
EMSL Order: 040320231
EMSL Project ID:
Analysis Date: 11/25/03

Asbestos Analysis of Bulk Materials via EPA 600/R-93/116 Method using Polarized Light Microscopy

Sample	Location	Appearance	Treatment	Non-Asbestos % Fibrous	Non-Asbestos % Non-Fibrous	Asbestos % Type
FA-04A 040320231-0010	MAIN BODY - ROOF	Black Fibrous Heterogeneous	Teased Dissolved		98% Non-fibrous (other)	2% Chrysotile
FA-04B 040320231-0011	MAIN BODY - ROOF					Not Analyzed
FA-04C 040320231-0012	MAIN BODY - ROOF					Not Analyzed
FA-05A 040320231-0013	ROOF	Black/Brown/Green Fibrous Heterogeneous	Teased Dissolved	2% Cellulose	98% Non-fibrous (other)	None Detected
FA-05B 040320231-0014	ROOF	Black Fibrous Heterogeneous	Teased Dissolved	10% Cellulose	90% Non-fibrous (other)	None Detected
FA-05C 040320231-0015	ROOF	Black Fibrous Heterogeneous	Teased Dissolved	10% Cellulose	90% Non-fibrous (other)	None Detected

Analyst(s)
Will DiBella (15)

Stephen Siegel, CIH
or other approved signatory

PLM has been known to miss asbestos in small percentages of samples which contain asbestos. Negative PLM results cannot be guaranteed. Samples reported as <1% or none detected should be tested with TEM. The above test report relates only to the items tested. This report may not be reproduced, except in full, without written approval by EMSL Analytical, Inc. The above test must not be used by the client to claim product endorsement by NVLAP nor any agency of the United States Government.
Results performed by EMSL Westmont (NVLAP 101048-0, NY ELAP 10872

PLM-1

THIS IS THE LAST PAGE OF THE REPORT.

ADDENDUM NUMBER 1 PAGE 173 OF 185

0403200231

EMSL Analytical, Inc.
Revised July 1, 1999

CHAIN OF CUSTODY

Asbestos

EMSL Rep:	Joe Frasca		
Your Company Name:	Payne Environmental, LLC	EMSL-Bill to:	PAYNE50
Street:	PO Box 1190	Street:	Same as report to address
Box #:		Box #:	
City/State:	Madison, CT Zip: 06443	City/State:	Zip:
Phone Results to: Name:	Neil G. Payne	Fax Results to: Name:	Neil G. Payne
Telephone #:	203.865.1285	Fax #:	203.865.1286
Project Name/Number:	03.176/001 City of New Haven Dept. of Engineering 230 Ella Grasso Blvd. Fire Academy Bid 1 Upper Roof	Purchase Order #:	

Third Party Billing requires written authorization from third party

MATRIX

☐ Air	☐ Floor Tile	☐ Soil	☐ 3 hrs	☐ 6 Hours	☐ Same Day or 12 Hours*	☒ 24 Hours 1 day
☒ Bulk	☐ Drinking Water	☐ Dust	☐ 48 Hours 2 days	☐ 72 Hours 3 days	☐ 96 Hours 4 days	☐ 120 Hours 5 Days
☐ Wipe	☐ Wastewater	☐ Micro-Vac	☐ 144+ hours 6-10 Days			

TURNAROUND

TEM AIR, 3 hours, 6 hours, Please call ahead to schedule. There is a premium charge for 3 hour tat, please call 1-800-220-3675 for price prior to sending samples. You will be asked to sign and authorization form for this service. 12 hours (must arrive by 11:00 a.m Mon - Fri.), Please Refer to Price Quote

PCM - Air
- ☐ NIOSH 7400
- ☐ OSHA
- ☐ Other:

PLM - Bulk
- ☒ EPA 600/R-93/116
- ☐ EPA Point Count
- ☐ NY Stratified Point Count
- ☐ PLM NOB (Gravimetric)
- ☐ Other:

SEM Air or Bulk
- ☐ Qualitative
- ☐ Quantitative

TEM AIR
- ☐ AHERA
- ☐ NIOSH 7402
- ☐ EPA Level II

TEM BULK
- ☐ Drop Mount (Qualitative)
- ☐ Chatfield
- ☐ TEM NOB (Gravimetric) NY 198.4

NY 198.1
* STD ANALYSIS AFTER 1ST POSITIVE DETECTED

TEM WATER
- ☐ Wastewater
- ☐ Drinking Water EPA 100.1
- ☐ WaterEZ NY Wastewater
- ☐ WaterEZ NY Drinking Water

TEM MICROVAC / WIPE
- ☐ ASTM D 5755-95 quantitative method

XRD
- ☐ Asbestos
- ☐ Silica

OTHER
- ☐

Client Sample # (s): FA-01A,B,C thru 05A,B,C Total Samples #: 15

Relinquished: [signature] Date: 11/24/03 Time: 6:00 pm (est)

Received: [signature] Date: Time:

UPS

SAMPLES ACCEPTED FOR ANALYSIS BY EMSL ANALYTICAL INC.

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04032023 1

EMSL Analytical, Inc.
Revised July 1, 1999

CHAIN OF CUSTODY **Asbestos**

SAMPLE NUMBER	LOCATION	MATRIX
FA-01 A, B, C	Upper roof Bld. 1 - Perimeter flashing on top of metal →	
FA-02 A, B, C	" "	BL. roof flashing around ventilator
FA-03 A, B, C	" "	BL. ROOF FLASHING AROUND DOOR/HATCH
FA-04 A, B, C	" "	Main body - roof felt
FA-05 A, B, C	" "	Roof felt under perimeter metal flashing

Kathleen [signature] 11/24/03 6 [illegible]

RECEIVED
EMSL
WESTMONT, N.J.
03 NOV 25 AM 10:33

ADDENDUM NUMBER 1 PAGE 175 OF 185

Attachment "D"

SECTION 10 73 00

SUSPENDED CANOPY SYSTEMS

PART 1 - GENERAL

1.01 RELATED DOCUMENTS:

A. The General Conditions of the Contract, including Supplementary Conditions and Division 1 - General Requirements, apply to the work of this Section.

1.02 WORK INCLUDED:

A. Design, manufacture and installation of translucent insulating system. An assembly of extruded Nano-Cell polycarbonate glazing panels incorporated into a complete aluminum framed system that has been tested and warranted by the manufacturer as a single source system.

B. All anchors, brackets, and hardware attachments necessary to complete the specified structural assembly, weatherability and water-tightness performance requirements. All flashing up to but not penetrating adjoining work are also required as part of the system and shall be included.

C. Trained and factory authorized labor with supervision to complete the entire panel installation.

1.03 RELATED WORK SPECIFIED ELSEWHERE:

A. Division 5 Section "Structural Steel" for steel framing that supports skin-system assemblies.

B. Division 7 Section "Sheet Metal Flashing and Trim" for metal flashings installed at perimeters of assemblies.

C. Division 7 Section "Joint Sealants" for sealants installed at perimeters of assemblies.

1.04 QUALITY ASSURANCE

A. Skylight system must be evaluated and listed by recognized building code authorities: International Council Evaluation Service Inc (ICC-ES) and SBCCI - Public Safety Testing and Evaluation Services Inc.

B. Materials and Products shall be manufactured by a company continuously and regularly employed in the manufacture of skylights using polycarbonate (not glass) panel systems for a period of at least ten (10) years.

C. Erection shall be by a factory-approved installer who has been in the business of erecting similar material for at least five (5) consecutive years and can show evidence of satisfactory completion of projects of similar size, scope and type.

D. The manufacturer shall be responsible for the configuration and fabrication of the complete panel system, and will ensure that it fully meets all requirements of this specification.

1.05 SUBMITTALS:

A. Submit shop drawings depicting geometry, framing, attachment methods and color samples.

B. The manufacturer shall submit written guarantee accompanied by substantiating data, stating that the products to be furnished are in accordance with or exceed these specifications.

C. The manufacturer shall submit certified test reports made by an independent organization for each type and class of panel system. Reports shall verify that the material will meet all performance requirements of this specification. Previously completed test reports will be acceptable if they are current and indicative of products used on this project. Test reports required are:

1. Self Ignition Temperature (ASTM 1929-3)
2. Smoke Density (ASTM D-2843)
3. Burning Extent (ASTM D-635)
4. Interior Flame Spread (ASTM E-84)
5. Color Difference (ASTM D-2244-85)
6. Weathering (ASTM D-4364)
7. Yellowing Index (ASTM D-1925)
8. Weathering Evaluation before and after exposure to 300°F, 25 minutes include Light Transmission, Color Change, and Yellowing Index, per ASTM E-1175, ASTM D-2244 and ASTM D-1925 respectively.
9. Shatter Resistance (ASTM D-3841/SPI Method B)
10. Large Missile Test - Impact Resistance per SFBC PA 201-94
11. Insulation "U" Factor per NFRC100 test methods & procedures
12. Water Penetration (ASTM E-331)
13. Load Bearing Capability (ASTM E-330-97)
14. OSHA Life Safety Fall and Walk Through Protection for 300 lb. point load per STD 29 CFR 1910.23 (e)(8)

15. OSHA Life Safety STD 29 CFR - Impact loading by blunt object of 500 ft. lbs. per ASTM E-695-03
16. Performance of exterior windows, curtain walls when impacted by wind-borne debris per ASTM E 1996-02, Level D
17. IES LM-44-90 Testing for Total and Diffused Reflectometry (Diffused Light Transmission)

D. MAINTENANCE DATA: The manufacturer shall provide recommended maintenance procedures, schedule of maintenance and materials required or recommended for maintenance.

1.06 WARRANTY:

A. Provide a single source canopy system manufacturer warranty for glazing panels and framing system – third party warranty for glazing panels shall not be acceptable.
B. Provide manufacturer 10 year warranty to include:
   1. Change in light transmission of no more than 6% per ASTM D-1003
   2. No delamination of panel affecting appearance, performance or structural integrity of the panel or the system.
   3. Thermal aging - the light transmission and the color shall not change after exposure to heat of 300°F for 25 minutes. (When measured per ASTM D-1003 and ASTM D-2244 respectively).

PART 2 PRODUCTS

2.01 TRANSLUCENT INSULATING NANO-CELL GLAZING SYSTEM:

A. The design and performance criteria of this project are based upon the products manufactured by CPI Daylighting, Inc., telephone (800) 759-6985, (847) 816-1060, fax (847) 816-0425; Product: Litebrow Suspended Translucent Sun Screen.

B. Other translucent polycarbonate systems will be considered provided that they fully meet all specification, warranty, module and aesthetic intent and are submitted for approval by the Contractor to the Architect not later than one month after the contract award. All submittals for approval shall include samples and complete test data as prescribed in Section 1.05 of this specification and per Division 1. Fiberglass skins are unacceptable.

2.02 TRANSLUCENT PANEL PERFORMANCE

A. Nano-Cell Panel Technology – Longevity and Resistance to Buckling and Pressure

1. Translucent Panels must be of Nano-Cell technology. Wide Cell technology (cell size exceeding 0.18") shall not be acceptable.
2. The translucent panel shall include an integral extruded Nano-Cell structural core. The panel's exterior skins shall be connected with supporting continuous ribs, perpendicular to the skins, at a spacing not to exceed 0.18" (truss-like construction). In addition, the space between the two exterior skins shall be divided by multiple parallel horizontal surfaces, at a spacing not to exceed 0.18".

B. Appearance:

⟹ 1. Panel assembly thickness shall be a minimum .47" (12mm) single panel with exposed interlocking 1.25" wide U battens.
2. Panel Width: Shall not exceed 2' to ensure best performance for wind uplift, vibration, oil canning and visual appearance. Panels over 2' wide will not be approved.
3. The panels shall be uniform in color with an integral Nano-Cell core. In a cross section, the core shall be constructed of Nano-Cell honeycomb cells not to exceed 0.18" x 0.18". The appearance should be equal to CPI's Pentaglas 12 Panel. Wide cell panel configurations greater than 0.18" by .018" shall not be accepted.

C. Thermal and solar performance:

1. Insulation Value ("U") per NFRC 100 test methods & procedures - 0.48
⟹ 2. Light Transmission (L.T.%) _____ per ASTM E-972, E-1175 or D-1003
⟹ 3. Solar Transmission (S.T.) _____ per ASTM E1084 at
⟹ "normal" (90°) incidence angle.
4. Color: Transparent

D. Translucent Panel Joint System:

1. Panel shall be extruded in one single formable length. Maximum panel width shall not exceed 2'. Transverse connections are not acceptable.
2. The panels should be manufactured with grip-lock double tooth upstands that are integral to the unit. The upstands shall be 90 degrees to the panel face (standing seam dry glazed concept). Welding or gluing of upstands or standing seam is not acceptable.

3. The U or H battens shall have a grip-lock double tooth locking mechanism to ensure maximum uplift capability.
4. The metal retention clip shall be configured with a 0.4" wide top flange that extends continuously across the web from end to end and from side to side. To allow a safety factor, the clip must be tested to meet a wind uplift standard of 90 psf per ASTM E330-97.
5. The panel system U connection shall meet wind load performance requirements without deterioration after 100 months of Florida outdoor exposure. This performance must be demonstrated by providing independent lab comparison test reports for a weathered vs. a new panel assembly. As a standard for all systems, provide test reports for a 16mm panel assembly, 6' wide x 12' long that have been exposed to Florida weather conditions for 100 months per ASTM E-330-97 for loading, ASTM E 1886-97 for cycling and ASTM E-1996-02 for missile impact at design load of 70 PSF.
6. Water Penetration: No water penetration of the panel U / H joint connection length at test pressure of 10.0 PSF per ASTM E-331
7. Free movement of the panels shall be allowed to occur without damage to the weather tightness of the completed system.

E. Flammability
1. The exterior and interior faces shall be an approved light transmitting panel with a CC1 fire rating classification per ASTM D-635. Flame spread no greater than 25 per ASTM E-84. Smoke density no greater than 75 per ASTM D2843 and a minimum self-ignition temperature of 1000°F per ASTM 1929. The panel shall be self-extinguishing.
2. Interior flame spread classification of Class I per ASTM E84.

F. Impact Resistance - the panels shall pass the following tests:
1. ASTM D-3841/SPI - Impact and Shatter Resistance of 200 ft. lbs.
2. SFBC – PA 201-94, impact resistance of 350 ft. lbs.
3. ASTM E-1996-02 - Must comply with standard specification for performance of exterior windows or curtain walls when impacted by windborne debris at level D and after cyclic wind loading at the specified design load.

G. OSHA Life Safety Standards 29 CFR 1926.502 (i)(2) and 29 CFR 1910.23 (e)(8)
1. Panel assembly shall withstand impact loading by blunt object of 500 ft. lbs. per ASTM E695-03
2. Panel assembly shall withstand a 300 lb. point load at 5' span per OSHA standard 29CFR 1910 23e8.

H. Cyclic Wind Load – Translucent Panels shall be tested for cyclic wind loads and impact resistance per ASTM E 1886-97 and ASTM E 1996-02 at test load to verify the positive and negative design loads and level D impact.

J. Weatherability:
1. The light transmission as measured by ASTM D1003, shall not decrease more than 6% over 10 years, or after exposure to temperature of 300°F for 25 minutes (thermal aging).
2. The panel shall be tested by recognized laboratory for weathering evaluation per ASTM D4364-84 (EMMAQUA, UNBACKED), after exposure to minimum concentrated natural sunlight radiation of 56000 MJ/M^2 (1540 MJ/M^2 of UV, 200 – 385 N.M). The panel shall not change in color more than 4.0 units Delta E, 4.0 units Delta L and Delta B.
3. The panel shall not change color more than 4.0 units (DELTA-E by ASTM D2244) after 60 months outdoor weathering in Arizona determined by an average of at least two samples.
4. Thermal aging - the interior and exterior faces shall not change color in excess of 0.75 Delta E by ASTM D2244 and shall not darken more than 0.3 units (Delta L by ASTM D2244) and 0.2 units Delta Y (YI) by ASTM D1925 and shall not show cracking or crazing when exposed to 300°F for 25 minutes.
5. The faces shall not become readily detached when exposed to temp of 300°F and 0°F for 25 minutes.
6. Panels shall consist of a polycarbonate resin with a permanent, co-extruded, ultra-violet protective layer. Post-applied coating or films of dissimilar materials are unacceptable. Fiberglass skins are unacceptable.
7. UV Maintenance: The system shall require no scheduled re-coating to maintain its performance or for UV protection.
8. Panel shall be factory sealed at the sill to restrict dirt ingress.

K. Diffused Light Transmission:
As a reference for measuring the quality of the diffused light through the panel assembly, the IES (Illuminating Engineering Societies) LM-44-1990 Approved Method for Total and Diffuse Reflectometry procedure shall be used. Results for a Clear Pentaglas / Single Glazed panel assembly shall be provided as a base standard for comparison.

For Pentaglas / Single Glazed systems with total illuminator flux output at 60 lumens, diffused light transmission requirements are:

Zonal Zone	% of transmittance from the maximum total lumens transmitted through the panels

0-30	66.0
0-40	78.5
0-60	94.0
0-90	100.0

L. The minimum ratio of the panel weight to the panel thickness should be:

For 0.47" thick Pentaglas 12 panel, 0.54 LB. per S.F.

2.03 METAL FRAME STRUCTURE

A. To meet ANSI/ASCE 7-95 building design load, design criteria shall be:
   1. Wind Load 30 PSF.
   2. Snow Load 30 PSF.

B. The Skylight framing is designed to be self-supporting between the support constructions. The deflection of the Structural framing members in a direction normal to the plane of the glazing, when subjected to a uniform load deflection, shall not exceed L/60 for the unsupported span. The skylights will impose reactions to the support construction. All adjacent and support construction must support the transfer of all loads including horizontal and vertical, exerted by the skylights. Design or structural engineering services for the supporting structure or building components not included in the skylight scope are not included under this section.

C. Water Penetration: The Metal Framed Skylight shall allow no water penetration at a minimum differential static pressure of 6.24 lbs. per sq. ft. per AAMA 501-94 Pressure Difference Recommendations and as demonstrated by prior testing of typical framing sample per ASTM E-331

D. Water test of Metal Frame Structure shall be conducted according to procedures in AAMA 501.2

2.04 METAL MATERIALS

A. Extruded Aluminum shall be ANSI/ASTM B221; 6063-T6: 6063-T5 or 6005-T5.

B. Flashing:

1) 5005 H34 aluminum 0.04" minimum thickness.
2) Sheet metal flashings/closures/claddings are to be furnished shop formed to profile - when lengths exceed 10 ft. in nominal 10-ft lengths. Field trimming of the flashing and field forming the ends is necessary to suit as-built conditions. Sheet metal ends are to overlap at least 6-in. to 8-in., set in a full bed of sealant and riveted if required.

C. All Fasteners for aluminum framing to be stainless steel, excluding the final fasteners to the building.

⟹ D. All exposed ALUMINUM FINISH shall be standard color gray, CPICRF Standard Paint.

PART 3 EXECUTION

3.01 EXAMINATION

A. General Contractor to verify when structural support is ready to receive all work in this section and to convene a Pre-Installation Conference at least one week prior to commencing work of this Section. Attendance required of General Contractor, skylight installer and all parties directly affecting and effected by the work of this section.

B. All submitted opening sizes, dimensions and tolerances are to be field verified by general contractor unless otherwise stipulated.

C. Installer to examine area of installation to verify readiness of site conditions. Notify general contractor about any defects requiring correction. Do not work until conditions are satisfactory.

3.02 INSTALLATION

A. Install components in strict accordance with manufacturer's instructions and approved shop drawings. Use proper fasteners and hardware for material attachments as specified.

B. Use methods of attachment to structure allowing sufficient adjustment to accommodate tolerances.

C. Remove all protective coverings on panels immediately after installation.

3.03 CLEANING

A. Follow manufacturer's instructions when washing down exposed panel surfaces using a solution of mild detergent in warm water that is applied with soft, clean wiping cloths.

B. Follow strict panel manufacturer guidelines when removing foreign substances from panel surfaces requiring mineral spirits or any solvents that are acceptable for use.

C. Installers shall leave panel system clean at completion of installation. Final cleaning is by others upon completion of project, following manufacturer's cleaning instructions.

END OF SECTION

END OF ADDENDUM NUMBER 1

Barbara Bergeron, Associate Fiscal Administrative Officer
Department of Public Works

INVITATION TO BID

ADV. NO.: 09-10 ADV. DATE: May 1, 2009

SEALED BIDS **FROM CONTRACTORS WHO HAVE BEEN PREQUALIFIED IN THE DAS CLASSIFICATION NOTED BELOW** SHALL BE ADDRESSED TO THE DEPARTMENT OF PUBLIC WORKS - STATE OF CONNECTICUT FOR:

Project Title:	Additions to the New Haven Regional Fire Academy
Project Number:	BI-FP-008A
DAS Classification:	Group B- General Building Construction
Special Requirement:	N/A
Cost Estimate Range:	$ 3,742,548.00 – $4,136,522.00
Plans & Specs Ready Date:	May 6, 2009
A NON-REFUNDABLE FEE OF PER SET IS REQUIRED	$ 172 **Checks** should be made payable to "**TREASURER, STATE OF CONNECTICUT**" and should include the prospective bidder's correct mailing address, telephone and fax numbers of where **addendum**(a) should be submitted. **USE A SEPARATE CHECK FOR EACH PROJECT.**
Examination or Purchase of Plans & Specs	at the State Of Connecticut, **Department Of Public Works, Plans And Specifications Section, Room No. G-36, 165 Capitol Avenue, Hartford, CT 06106**, during the hours of 7:30 A.M. to 3:00 P.M. (Monday-Friday) or by addressing a request to the above address.
Pre-Bid Conference:	All prospective bidders are encouraged to attend a pre-bid conference.
Pre-Bid Conference **Time**	to be held AT 10:00 AM.
Pre-Bid Conference **Date**	ON May 13, 2009
Pre-Bid Conference **Location**	At New Haven Fire Training Academy 230 Ella Grasso Blvd. New Haven, CT 06515
Pre-Bid Conference **Contact**	**Michael Grant**
BID OPENING DATE:	**May 27, 2009**
Receipt of Bid Package	Bids will be received at the **State Office Building, 165 Capitol Avenue, Hartford, CT, 06106** in **Room No. G-36** UNTIL **1:00** P.M. on the date shown **above** and thereafter publicly opened and read aloud in **Room No. G-32.**
Bid Results:	Bid results are posted on the **DPW Website** in approximately two (2) days after the bid opening date.
Set-Aside Participation	25%
Including MBE/WBE	6.25%

Gift And Campaign Contribution Certification	If awarded the subject contract and the contract has a value of **$50,000** or more the contractor will be required to sign and submit, at the time of contract execution, a **Gift And Campaign Contribution Certification**. See the DPW home page, http://www.ct.gov/dpw, click on **Affidavits**. For the purposes of signing the Certification, the "date DPW began planning" the subject project or services is such date noted below.
Date DPW Began Planning the Subject Project:	May 12, 2006
Summary and Affidavit Regarding State Ethics	Any one seeking a contract with a value of more than $500,000 shall provide with their bid an **Ethics Affidavit** *located* at CT **DPW Website** (www.ct.gov/dpw). Failure to provide this affidavit with the bid proposal shall result in rejection of the bid.
Bid Security	As *security*, each bid must be accompanied by a CERTIFIED CHECK made payable to "**Treasurer, State of Connecticut**," or the bid must be accompanied by a BID BOND, in the form required by the awarding authority and having surety thereto such Surety Company or Companies as are authorized to do business in this State and/or accepted by the Commissioner of the Department of Public Works for an amount not less than **10%** of the bid.
Bidders are advised that ***both*** the DEPARTMENT OF ADMINISTRATIVE SERVICES PREQUALIFICATION **CERTIFICATE** and **UPDATE STATEMENT must** accompany the ***bid*** proposal for projects *estimated* to *exceed* Five Hundred Thousand Dollars ($500,000.00) (C.G.S. 4b-91 as amended). ***Failure to supply them with the bid will result in rejection of the bid***	
Department of Administrative Services (DAS) **Contractor Prequalification Program: http://www.das.state.ct.us/busopp.asp**	
To access Executive Orders http://www.ct.gov/governorrell/cwp/browse.asp?a=1719&bc=0&c=18433	
To access the Department of Public Works Web Site: http://www.ct.gov/dpw	

Performance and **Labor and Material Bonds** to be furnished by the bidder awarded the contract shall be an amount not less than 100% of the contract price.

The awarding authority reserves the right to waive technical defects or to reject any and all bids.

Nonresident contractors: At the time of contract signing a certificate from the Commissioner of Revenue Services must be provided which evidences that C.G.S. 12-430 for non-resident contractors has been met. For details call the Department of Revenue Services at (860) 541-3280, ext. 7.

EXECUTIVE ORDERS:

The Contract is subject to the provisions of Executive Order No. Three of Governor Thomas J. Meskill, promulgated June 16, 1971, concerning labor employment practices, Executive Order No. Seventeen of Governor Thomas J. Meskill, promulgated February 15, 1973, concerning the listing of employment openings and Executive Order No. Sixteen of Governor John G. Rowland promulgated August 4, 1999, concerning violence in the workplace, all of which are incorporated into and are made a part of the Contract as

if they had been fully set forth in it. At the Contractor's request, the Client Agency shall provide a copy of these orders to the Contractor. The Contract may also be subject to Executive Order No. 7C of Governor M. Jodi Rell, promulgated July 13, 2006, concerning contracting reforms and Executive Order No. 14 of Governor M. Jodi Rell, promulgated April 17, 2006, concerning procurement of cleaning products and services, in accordance with their respective terms and conditions.

This contract is subject to the provisions of the Department of Public Works **Sexual Harassment Policy** ("Policy") and, as such, the contract may be canceled, terminated, or suspended by DPW for violation of or noncompliance with said Policy. Said document is hereby incorporated herein by reference and made a part hereof as though fully set forth herein. This policy may be found at the Department of Public Works Website at http://www.ct.gov/dpw, click **Publications** and scroll to **Sexual Harassment Policy**.

All technical questions must be in writing (not phoned or emailed) and faxed to the Architect/Engineer with a copy to the DPW Project Manager listed below.

Architect/Engineer/ Consultant:	Dewberry-Goodkin, Inc. Francis Kobylenski, P.E.	Fax No:	203-776-6677
Construction Administrator	TBD	Fax No:	
DPW Project Manager:	Carlton Grodotzke	Fax No:	860-713-7270

All **bid questions** should be addressed to the Purchasing Officer listed below.

Associates Fiscal Administrative Officer:	Barbara Bergeron	Fax No:	(860) 713-7396

Contract Time Allowed: 280 Calendar Days

Liquidated Damages: $ 1355.00 Per Calendar Day

Prevailing Wage Rates:

Prevailing wages are required on this project, in accordance with the schedule provided in the bid documents, pursuant to Connecticut General Statutes Section 31-53 (a) through (h), as amended.

Each contractor who is awarded a contract on or after October 1, 2002 shall be subject to provisions of the Connecticut General Statutes, Section 31-55a concerning **annual adjustments** to prevailing wages.

Wage Rates will be posted each July 1st on the Department of Labor website: www.ctdol.state.ct.us . Such prevailing wage adjustment shall not be considered a matter for any contract amendment.

The wages paid on an hourly basis to any mechanic, laborer or workman employed upon the work herein contracted to be done and the amount of payment or contribution paid or payable on behalf of each such employee to any employee welfare fund, as defined in subsection (h) of section 31-53 of the Connecticut General Statutes, shall be at a rate equal to the rate customary or prevailing for the same work in the same trade or occupation in the town in which such public works project is being constructed. Any contractor who is not obligated by agreement to make payment or contribution on behalf of such employees to any such employee welfare fund shall pay to each employee as part of his wages the amount of payment or contribution for his classification on each pay day.

Procurement
Department of Public Works