

Date April 16, 2007

-FINAL-

**34 Freeman's Bridge Road Site
Site Number 4-47-028**

**Direct Heated TDU
Proof of Performance Test Report**

Prepared For:



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Conservation
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CERTIFICATION:

I hereby certify that the enclosed Proof of Performance Plan, shown and marked in this submittal, is that proposed to be incorporated with the Contract for the Freeman's Bridge Road Site. This plan has been prepared in accordance with NYSDEC specifications and is hereby submitted for approval.

Reviewed by:

DA Collins Project Manager

Date

ESMI Thermal Operations Manager

Date

TD*X Thermal Process Group Director

Date

Approved By:

NYSDEC Project Manager

Date

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LIST OF ACRONYMS AND ABBREVIATIONS

°F	degrees Fahrenheit
µg/m³	micrograms per cubic meter
AWFSO	Automatic Waste Feed Shut Off
c & d	construction & demolition
CEM	Continuous Emission Monitoring
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO₂	carbon dioxide
DAC	Derived Air Concentration
DRE	Destruction Removal Efficiency
ESMI	Environmental Soil Management Incorporated
FBR	Freeman's Bridge Road Site
GC/MS	Gas Chromatography / Mass Spectrometry
H₂O	water
HCL	hydrochloric acid
Hg	mercury
HPLC/MS	High Performance Liquid Chromatography/Mass Spectroscopy
KG	Kilogram
mmBTU	million British Thermal Units
NAAQS	National Ambient Air Quality Standard
NYSDEC	New York Department of Environmental Conservation
PCBs	Polychlorinated Biphenyls
PoP	Proof of Performance
ppm	parts per million
ppmV	parts per million (volumetric)
PTE	Potential to Emit
PTU	Primary Treatment Unit
SOPs	Standard Operating Procedures
STU	Secondary Treatment Unit
SVOC	semi-volatile organic compound
TDU	Thermal Desorption Unit
TPH	Tons Per Hour
TSCA	Toxic Substances Control Act
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

1.0 INTRODUCTION

This Thermal Desorption Unit (TDU) Proof of Performance (PoP) Test Report was prepared by ESMI and TD*X Associates for the New York Department of Environmental Conservation (NYSDEC) under the contract for the “34 Freeman’s Bridge Road Site.” Work conducted under this contract will be performed in accordance with all applicable Federal, State, and local laws and regulations.

DA Collins has been contracted to use thermal desorption to clean soils that are contaminated with organic compounds at 34 Freeman’s Bridge Road Site. DA Collins has subcontracted Environmental Soil Management Inc. (ESMI) to perform thermal treatment of Non Toxic Substances Control Act (TSCA) and TSCA contaminated soil. ESMI is using their mobile direct heated Thermal Desorption Unit (TDU) to perform the soil treatment of the Non-TSCA regulated soils. ESMI has subcontracted TD*X Associates to perform thermal treatment of TSCA regulated soil. This PoP Test report only addresses the performance of ESMI’s mobile Direct Heated TDU.

The Direct Fired PoP test was performed on February 7-9, 2007. The Method 9, Visible Emissions testing was completed later, on March 14.

1.1 Purpose

The purpose of the PoP Test was to demonstrate compliance with project requirements for soil treatment and emissions control. Sampling was performed of the soil feed, treated soil and air emissions during the PoP test.

1.2 Contaminants Overview

The 34 Freeman’s Bridge Road Site is located in a commercial and light industrial area in the southeast part of the Town of Glenville, northeast of the Village of Scotia. The site is on the northeast side of Freeman’s Bridge Road approximately 1,000 feet northwest of the reconstructed Freeman’s Bridge over the Mohawk River.

The property was owned and had been used by the Kichton Cooperage Company as a drum recycling facility since the late 1950’s. Site operations allegedly included taking in used 55-gallon drums, emptying residuals on the ground into pits, cleaning the drums and painting and recycling them for reuse. A 12-acre parcel was purchased in 1978 by Lyon’s Ventures, Inc. In addition to operating a commercial used furniture business, Lyon’s Ventures operations also included storing drummed waste on the site and receiving large quantities of fill and construction and demolition (C&D) debris that were spread across an 11-acre area south of Warner Creek.

Drum recycling operations (late 1950s to 1972) by the Kichton Cooperage Company, and more recent drum storage and unregulated fill operations conducted by Lyon’s Ventures, Inc., have contaminated fill soils and shallow groundwater to various degrees on the site, in particular the southwestern quadrant of the site.

These soils are contaminated by hazardous chemicals that require remediation under New York State regulations. Contaminants of concern previously detected at FBR include semi-volatile organic compounds (SVOCs), volatile organic compounds (VOCs), Polychlorinated Biphenyls (PCBs), Lead, Chromium and Mercury.

2.0 PROCESS DESCRIPTION

ESMI is using their mobile direct heated Thermal Desorption Unit (TDU) to perform the soil treatment of the non-TSCA regulated soils. This unit employs a direct heated rotary dryer to heat the contaminated soil. The organic chemical contaminants are removed from the soil in the primary treatment unit (PTU), which discharges into a treated soil pile. The organic chemicals are transferred with the hot gas from the PTU to a gas treatment system where they are filtered by a cyclone and then oxidized in a secondary treatment unit (STU), quenched and cooled, then finally filtered with a baghouse prior to discharge to the atmosphere.

Figure 2.1 ESMI's Direct Heated Thermal Desorption Unit



2.1 ESMI Direct Heated TDU Process Description

The ESMI direct Thermal Desorption Unit (TDU) is a direct fired low temperature thermal desorption system. It consists of a dryer designed to separate organic contaminants from solid matrices at relatively low temperatures. The separated contaminants are then oxidized in a direct fired oxidation chamber. No TSCA regulated materials will be processed through the ESMI TDU. NYSDEC Permit Equivalency will be attained in order to operate the unit

The ESMI TDU consists of seven principal components: a feed system; a thermal desorption unit (dryer); soil cooling and discharge conveyors, dual cyclone, oxidizer, evaporative cooling chamber, and a baghouse. Contaminated solids are heated at relatively low temperatures in the thermal

desorption unit, which is a rotary dryer. The dryer is directly heated using propane, natural gas or fuel oil. The dryer consists of a long steel cylinder that rotates with a 42 mmbtu (million British Thermal Units) burner located at the feed end of the dryer. Waste is fed into the cylinder, where it is exposed to the heat generated by the burner. Feed preparation is performed on all waste prior to delivery to the treatment pad. This feed preparation consists of screening to remove oversize material. Also, lime kiln dust is added when excessive free moisture is present to dry the feed into a friable condition to allow its effective screening and feeding.

The products of combustion combined with the contaminants released from the soil during heating are introduced to the air stream. The induced draft fan continuously moves the air stream through the unit. In the gas treatment system, larger particles that become entrained are removed in the dual cyclones. Volatilized contaminants continue to the oxidizer and are reduced to carbon dioxide (CO₂), water (H₂O) and trace amounts of hydrochloric acid (HCl). The air stream is then cooled in the evaporative cooling chamber and final particulate removal occurs in the baghouse. The induced draft fan then exhausts the controlled air stream to the atmosphere.

The dryer produces solids containing very low levels of residual contaminants. These solids contain little or no detectable organic chemicals. These solids are sampled, analyzed and tested to ensure they have met the cleanup goals and then returned to the FBR site for use as onsite backfill.

The ESMI direct TDU is capable of routinely producing treated solids at temperatures up to 950°F. However, efforts were made to determine a minimum treatment temperature because the treatment rate is higher as lower treatment temperatures are used. For the FBR site remediation, it is anticipated that the treatment temperature will range from 700 to 900°F.

During Shakedown Operations at the FBR project site the ESMI unit performed generally as expected. The STU was optimized to establish flow and temperature conditions to give reliable operation with CO levels in the exhaust gas below 100 ppm. Two operational problems were identified. The first was an excessive vibration of the STU chamber. This vibration was determined to be a harmonic oscillation of the gases in the chamber and ductwork. This vibration was reduced to an acceptable level by modifying the burner transition in the STU. The other problem was an excessive heat release from the processing of some of the soil at the FBR site. This problem was resolved by feed soil blending in an attempt to minimize operational impacts, primarily with respect to eliminating restrictions on the feed rate to the unit. Heating value data for the btu/lb content of the feed was used to guide this feed soil blending. The ESMI unit has an approximate heat release capacity of about 25 million btu/hr from the energy content of the processed soil. This was confirmed during the Shakedown Operations period.

3.0 PROOF OF PERFORMANCE TEST OVERVIEW

As part of ESMI's initial thermal treatment operations at FBR, a PoP test was performed. The primary objectives of the PoP test were to demonstrate that:

- ESMI's TDU system will meet the project specified treatment criteria for soil,
- The Destruction and Removal Efficiency (DRE) for the site's principal organic hazardous constituent (POHC) is greater than 99.99%,
- the air emissions will meet the criteria established by the Air Permit Package, and
- the equipment can be safely operated in a controlled manner.

The PoP test was conducted on February 7, 8 and 9, 2007. The VE testing was performed on a later date on March 14. This was after 212.75 hours of the shakedown operations on contaminated soil to the Direct Fired TDU. ESMI has submitted interim letter reports containing the results of performance tests to the NYSDEC as they became available. These letter reports are included as Appendix A.

3.1 Proof of Performance Feed Material Preparation

The testing during the proof of performance period was conducted using SVOC and VOC contaminated materials from portions of the site that contain the highest levels of these contaminants. This material also had PCB concentrations less than 50 (parts per million) ppm. Composite samples of the targeted feed material were collected and analyzed at a rate consistent with treated soil verification testing, to verify the levels of the contaminants of concern and to establish a baseline for emissions calculations. The analytical results of the feed material are included in Appendix B of this PoP Test Report.

In order to demonstrate the performance of the TDU system, the highest contaminant levels of contaminated soil were targeted for the PoP test. The PoP test feed material was sampled prior to the test to verify contaminant levels were adequate to meet the test requirements, and during the test to measure the system performance. The initial POHC was selected to be xylene based on prior site characterization data for the FBR site. However, upon excavation, cells with RI data having high xylene levels were found to have PCB levels greater than 50 ppm. Other cells were excavated having SVOC levels near the maximum values expected for the site. These were analyzed and pyrene was measured as the highest SVOC, with levels near 100 ppm. This level was expected to be sufficient to establish DRE greater than 99.99%, therefore, the POHC was designated to be pyrene. Pyrene is a SVOC that has DRE performance characteristics similar to the broad class of compounds present at the FBR site, making it chemically suitable for designation as a POHC.

The feed soil was pre-characterized for the POHC; with five samples having been taken from the Pre-Batch bins. These PREP results are provided in Appendix B, and are summarized in Table 5-1.

Feed material was prepared by screening to remove oversize debris, such as concrete and wood. A substantial portion of oversize was encountered at the FBR site. At the time of the PoP test, this oversize material was being size reduced in a crusher and blended back with the feed to the TDU.

Lime kiln dust (LKD) was added to the feed material to absorb free moisture and render the soil more friable for feeding to the TDU dryer. The feed soil moisture content ranged from 12 to 17% during the PoP test. These data are presented in Table 5-1. Significant efforts were made to excavate soils that were comparatively dry in order to maximize the soil processing rate, and hence the loading to the system. Higher moisture content materials were encountered during Shakedown Operations, with moisture levels up to 25%. The moisture content of the material was measured after LKD addition. The moisture content of the soil in the excavation has not been determined to date.

A series of grab samples of the feed were composited for each of the Organic (i.e. DRE) and Inorganic test runs. Duplicate feed composite samples were collected during Run 1A only, which was the organic DRE test run.

3.2 TDU Treated Soil Testing

In order to demonstrate the ability of the TDU system to treat the contaminated soil, DAC sampled the TDU system treated soil. Treatment criteria for the FBR contaminated soils are presented in Table 3-1 "FBR TDU Soil Treatment Standards for Contaminants of Concern".

TABLE 3-1. FBR TDU SOIL TREATMENT STANDARDS FOR CONTAMINANTS OF CONCERN

Contaminant of Concern	Treatment Standard
Total Carcinogenic SVOCs	10 mg/Kg
Total SVOCs	500 mg/Kg
Total VOCs	10 mg/Kg
Total PCBs	1 mg/Kg
Lead	1,200 mg/Kg
Chromium	50 mg/Kg
Mercury	2 mg/Kg

The treated soil discharged from the TDU was sampled in accordance with the project Sampling Plan, which was submitted under separate cover. The analytical results of the treated soil are included in Appendix B of this PoP Test Report.

Treated soil samples were collected from the discharge conveyor belt. A series of grab samples of treated product were mixed into a composite for each of the Organic (i.e. DRE) and Inorganic test runs. Duplicate product composite samples were collected during Run 1A only, which was the organic DRE test run. Soil sampling was paired with the feed samples by delaying the start of treated soil sampling by 13 minutes, the solids residence time of the feed system, dryer and discharge system. These grab samples were composited for each test run.

Feed and treated soil analysis was performed by Adirondack Environmental Services at their Albany, NY laboratory.

3.3 TDU Air Emissions Testing

Eric Aynsley Associates was the source test subcontractor that performed all stack sampling associated with the PoP Test. Stack samples were analyzed by Maxxam Analytics, Inc. at their Burlington, Ontario Canada laboratory facility.

Standard stack testing methods, as per 40 CFR 60 Appendix A, were used for the performance test. Stack test sampling included the following United States Environmental Protection Agency (EPA) approved methods:

- Methods 1 through 4 for stack gas composition and flow determination,
- Method 10 for carbon monoxide by CEM,
- Method 25a for Total Hydrocarbons by CEM,
- Method SW846-0010 with method 8270 for SVOCs,
- Method 23 with method 680 for PCBs,
- Method 0030 (VOST),
- Method 5 for particulate matter (PM),
- Method 29 with multiple metals analysis for inorganic metals,
- Method 26a for hydrogen chloride, and
- Method 9 Visible Emissions test.

The fuel for the TDU during the test was natural gas. Therefore, the proposed combustion efficiency test was not performed that is required for fuel combustors using Specification A waste oil.

The analytical results of the source testing and all associated calculations are included in Appendix C and D of this PoP Test Report, respectively.

The stack sampling activities were performed over a two-day period. Sampling for organic chemical compound parameters was performed the first day, with three runs of the SVOCs, PCBs VOST methods being performed; test methods SW846-0010, 23 and 0030, respectively. The balance of the testing was performed the second day, with three runs for the PM, metals and HCl methods being performed; test methods 5, 29 and 26A. The flow determinations and CEM methods were performed both days of the testing.

The emission testing CEM method parameters included both CO and THC. A PoP test objective of the Thermal Work Plan was established that during the PoP test, a critical evaluation of the THC results was to be performed. If low THC values were demonstrated simultaneous with carbon monoxide in the stack below 100 ppm, it was proposed that a CEM process monitor for THC not be required, but that continuous performance verification of the STU be based on the CO monitor. The reference standard for this evaluation is based on similar requirements for hazardous waste combustors (i.e. the MACT) that allow for elimination of a THC CEM if during performance testing it is verified that less than 10 ppm THC is measured concurrent with less than 100 ppm CO. Based on this demonstration, THC need not be included as either a CEM or an AWFCO [ref. 40 CFR 60.1203(a)(5)(i)].

On Wednesday, February 7, 2007 an initial attempt was made to begin the emissions testing. However, an operational problem was identified with the TDU equipment, and the testing was delayed. During Run 1 the source testing contractor notified plant personnel that particulate was collecting on a sample train filter. At this time Run 1 was aborted. The particulate removal system (baghouse) was inspected for leaks. Tiny cracks in a welded seam showed evidence of dust bypassing the design flow path of the baghouse. These cracks were repaired and the test was rescheduled for February 8th. Sample media from this initial run was discarded. The testing was then performed with “Day 1” being Thursday, February 8 and “Day 2” being Friday, February 9.

The stack testing quality control results were satisfactory, with all parameters being determined as acceptable within the test methods. A QC evaluation is included in Appendix L.

Table 3-2 provides a summary of the regulatory criteria for the air emissions from the Direct Heated TDU at FBR.

The PoP test was conducted in three separate test runs. Each of the test runs included all of the above listed test parameters. Table 3-3 presents a detailed matrix for the demonstration testing. The sampling of the feed and product for organic chemicals was performed when the organic emissions sampling was being performed. Similarly, metals sampling of the feed was performed when metals emissions testing was being performed.

Visible emissions (VE) monitoring per 40 CFR 60, Appendix A, Method 9 are a requirement of the PoP Test Plan. Harsh wind conditions during the direct LTDD unit PoP test prevented accurate readings during the testing performed on February 8 and 9. The DEC approved VE monitoring to be attempted at a later date. This VE test was performed on March 14, 2007. Results are summarized in Table 5-2 and the VE method data sheets are provided as Appendix J.

The Direct Heated PoP also included a project specific testing requirement for the Direct Heated TDU, that the site soil principle organic hazardous constituent (POHC) is controlled with better than 99.99% removal efficiency by the TDU's APC system. The POHC selected for the Direct Heated PoP test was pyrene. This selection was based on sample results for the feed soil pile. Results for the PREP samples that were used to support this selection are provided in Appendix B and summarized in Table 5-1. The PoP test was performed with a blend of soils from four excavation batches of approximately 1000 tons each, numbered Pre-Batches 1, 2, 8, 11 and 12. The blend ratio was 1:1:1:3:6 from Batches 1,2,8, 11 and 12, respectively. The POHC removal efficiency calculation was performed for all three runs. Destruction Removal Efficiency (DRE) calculations are provided for pyrene.

For the ESMI unit, the AWFCO for THC is not proposed based on the appropriate permit doctrine for hazardous waste combustors MACT regulations. THC was measured during this POP test, and demonstrated to be less than 10 ppm as propane, consistent with the MACT, simultaneous with CO being less than 100 ppm. Based on this demonstration, THC need not be included as either a CEM or an AWFCO [ref. 40 CFR 60.1203(a)(5)(i)].

TABLE 3-2. FBR ESMI DIRECT HEATED TDU AIR EMISSIONS REGULATORY CRITERIA

Parameter	Value	Reference	Compliance Method
Air Emission Limit in TDU Stack Gas			
Sulfur Dioxide	<80 $\mu\text{g}/\text{m}^3$ DAC <50 ton/yr PTE	NAAQS 201-4	Fuel analysis, material balance
Particulate Matter	<50 $\mu\text{g}/\text{m}^3$ DAC	NAAQS	Method 5 & dispersion calc
Oxides of Nitrogen	<100 $\mu\text{g}/\text{m}^3$ DAC <50 ton/yr PTE	NAAQS 201-4	Emission factors, material balance
Carbon Monoxide	<9 ppmV DAC or 10,000 $\mu\text{g}/\text{m}^3$ DAC <50 ton/yr PTE	NAAQS 201-4	Method 10 & dispersion calc
Combustion Efficiency	>99% while burning Spec A Waste Fuel Oil	225-2.3	Method 10 and Methods 1-4
Air Toxics: Toxic metals	<10 ton/yr PTE each <25 ton/yr PTE total	40 CFR 61	Method SW846-0010/8270 and Method 0030 (VOST) for organic chemical compounds, and Method 29 with multi-metals analysis for metals, and material balance
Hydrogen Chloride	< 10 ton/yr PTE	40 CFR 61	Method 26A
Visible Emissions	<20% opacity	227-1.3(a)	Method 9
Dust, Odor, etc.	Shall not permit emissions that cause a condition of air pollution	211.2	SOPs

DAC = derived air concentration in ambient air after dispersion modeling by Screen3,

NAAQS = National Ambient Air Quality Standards , PTE = potential-to-emit

All references to NYSDEC regulations are to the code 6NYCRR Chapter 3 – Air Resources.

3.4 Test Chronology and Events

The source testing contractor arrived on Tuesday February 6th and attended a pretest meeting that included representatives from NYSDEC, Earth Tech, DAC Environmental, ESMI of NY and TD*X Associates. The PoP Test Plan and procedures including analysis of soil and air were discussed. Feed prep of soils and the selected POHC was discussed.

A specific blend of soil was prepared for the test. Batches 1, 2, 8, 11 & 12 were blended together to form the test feed material. BTU content of the test soils was a concern based on finding solid tar chunks and apparent tar type paper in the prepped feed soils. The soil was blended to yield a suitable heat release in the TDU. The final blend ratio was 1:1:1:3:6 for feed bin soil batches 1, 2, 3, 11 and 12, respectively.

Run 1 (for organics) of the PoP test commenced on February 7th. During the test high CO readings were experienced and it was determined that high BTU content material was being fed to the dryer. Additional soils from Batch 12 were blended with the PoP soils to lower the apparent high BTU. High CO readings were assumed to be an indicator of high BTU soils. The final blend ratio was 1:1:1:3:6 for feed bin soil batches 1, 2, 3, 11 and 12, respectively.

During Run 1 the source testing contractor notified plant personnel that particulate was collecting on a sample train filter. At this time Run 1 was aborted.

The particulate removal system (baghouse) was inspected for leaks. Tiny cracks in a welded seam showed evidence of dust bypassing the design flow path of the baghouse. These cracks were repaired and the test was rescheduled for February 8th.

Run 1 (organics) was started again on February 8th with all new sample media. During the run the ESMI CEM analyzer was showing elevated CO readings inconsistent with the source testing contractor's analyzer. ESMI recalibrated the CEM analyzer and CO readings became consistent. During this recalibration, it was noted that the CO analyzer's sample condition system refrigeration unit was set too low, possibly causing a lower sample flow rate to the instrument. This condition was corrected.

Run 2 and 3 (organics) were also started on February 8. Run 3 finished on February 9th at 02:35 hrs. Runs 2 and 3 were runs without upset conditions.

Runs 1, 2 & 3 (inorganics) began and were completed on February 9. During Run 3 the soil discharge system's pugmill jammed and belts were worn out. The pugmill was cleared out of foreign objects, new belts were installed and approximately 2 hrs later the test was restarted. During this time period the stack sampling flow was interrupted, and then stack sampling was restarted when the problem was corrected.

TABLE 3-3. SAMPLING PLAN MATRIX – ESMI DIRECT UNIT

Location ID	Frequency	Container	Parameter	Methods	Pres.	Hold Time (days)	TAT
Pres. = Preservative CWM = Clear Wide Mouth							
DEMONSTRATION TEST, TEST RUN #N (N = 1 to 3)							
PREP	Composite taken from grabs from feed pile with sufficient time for results to be available prior to start of Demo Test Run #1	4 oz CWM	SVOC	8082 8270	4°C	14 extract/40 post extract	15 day 15 day
		4 oz CWM	VOC	8260	4°C	14 total	15 day
		8 oz CWM	PH TS Ash	9045 160.3 D-482	4°C	Immediate none none	15 day
FEED-N	Composite of 16 grabs, taken once every 15 min from feed hopper	8 oz CWM	PCBs SVOC	8082 8270	4°C	14 extract/40 post extract	15 day 15 day
		4 oz CWM	VOC	8260	4°C	14 total	15 day
		8 oz CWM	TS Ash Metals	160.3 D-482 6010/7471	4°C	none none 28 day	15 day
FEED-1-DUP	Split sample from composite of 16 grabs, taken once every 15 min from feed hopper	4 oz CWM	VOCs	8260	4°C	14 total	15 day
PROD-N	Composite of 16 grabs, taken once every 15 min from product conv. Discharge, paired with FEED sample	8 oz CWM	PCBs SVOC	8082 8270	4°C	14 extract/40 post extract	15 day 15 day
		4 oz CWM	VOC	8260	4°C	14 total	15 day
PROD-1-DUP	Split of composite of 16 grabs, taken once every 15 min from product conv. discharge paired with FEED-1 sample	4 oz CWM	VOCs	8260	4°C	14 total	15 day
PROD-1-EB	Field equipment blank for PROD-1 sampling equip rinsate	(3) 40 ml vial	VOCs	8260	4°C HCl	7 extract/40 post extract	15 day
STACK-N	240 minutes, Method 0010	Resin trap	PCBs SVOC	680 8270	4°C	14 extract/40 post extract	15 day
	1 set per run, Method 0030 (VOST)	resin trap	VOC	8260	4°C	14 total	15 day

Location ID	Frequency	Container	Parameter	Methods	Pres.	Hold Time (days)	TAT
	240 minutes, Method 26A	impingers	HCl	26A	n/a	n/a	15 day
	240 minutes, Method 5	filter, impingers	PM	5	n/a	n/a	15 day
	continuous, Method 10	CEM	CO	10	n/a	n/a	15 day
	60-min per run, Method 9	observer	Visible emissions	9	N/a	field	15 day
	240 minutes, Method 29	filter, impingers	Metals	6010/7471	pH<2	180 total	15 day
	240 minutes, Method 5	filter, impingers	PM	5	n/a	n/a	15 day

4.0 MISCELLANEOUS TESTING

During shakedown operations ESMI processed soil and conducted testing to ensure the process instrumentation and controls were functional and that the system can be safely operated. This testing included:

- Automatic Waste Feed Shut Off (AWFSO) Verification;
- Instrumentation Calibration; and
- Process Operating Parameters

4.1 Automatic Waste Feed Shut Offs

An AWFSO is a latching relay (soft) that is required to stop the introduction of waste into the system in the event of a process upset, out of compliance condition, or an emergency situation. All air pollution control, water treatment, and product discharge equipment continue to function as if under normal operation. The AWFSOs perform the following actions:

- Set feed rate to 0;
- Stop soil feed system;

4.2 Instrument Calibration

Prior to the performance test, scheduled calibrations of the belt scale and the continuous emissions monitoring system (CEMS) were performed.

4.3 TDU System Operating Parameter Monitoring

Data monitored by operating personnel is a major information source used in operating the TDU system. Data is essential to understand the process and the capabilities of the equipment, as well as documenting critical operating parameters. Monitoring is continuous throughout operations on a timely basis that is adequate to respond to changes in the operating parameters.

General operating parameters will be collected electronically every minute and the data for the performance test days will be included in the POP Test Report along with TDU daily shift reports and field notes.

Table 4-1 “FBR Direct Heated TDU Continuously Monitored Process Operating Parameters” identifies critical operating parameters and AWFSO conditions for the TDU. The parameters were established based on PoP operating data and approved by The Department after the PoP Destruction Removal Efficiency of 99.99% was determined.

TABLE 4-1. FBR DIRECT HEATED CONTINUOUSLY MONITORED PROCESS OPERATING PARAMETERS

Instrument Tag No.	Description	Expected Operating Range	Units
FI-9	Feed Rate to Dryer	0.0 to 50.0	Tph
TE-5B	Dryer Exhaust gas Temp	650 to 950	°F
TE-5A	Dryer Discharge Soil Temp	600 to 900	°F
PT-6	Dryer Draft Pressure	-1 to 0.0	In H ₂ O
TE-12	Oxidizer Exhaust Gas Temp	1500 to 1600	°F
TE-13	Evaporative Cooling Chamber Exit Gas Temp	300 to 450	°F
PI-15	Bag House Differential Pressure	1.0 to 8.0	In H ₂ O
AE-19	Stack Carbon Monoxide Concentration corrected for 7% oxygen	< 100	ppm
AE-20	Stack Oxygen Concentration	5 to 15	%
TE-14	Bag House Outlet Gas Temp	250 to 425	°F

4.4 Perimeter High Volume Air Monitoring

During performance of the PoP Test, DA Collins performed perimeter air monitoring in accordance with the contract requirements. Sampling was performed for PCBs, PAHs, VOCs and Particulates. Laboratory results for these samples were compared to background results for the site and are included as Appendix K. No exceedance of background levels occurred during the performance of the PoP test.

5.0 PROOF OF PERFORMANCE TEST RESULTS

Test results for feed and treated soil testing, emissions testing and the continuous process monitoring system are presented.

- Treatment of the site contaminants to less than the project specification's treatment standards for the treated soil,
- Destruction and Removal (DRE) efficiency of greater than 99.99% for the designated FBR site POHC, pyrene. Due to relatively low contaminant input rate, a 99.99% DRE was difficult to demonstrate.
- Emission of less than 4 lb/hr HCl from the stack,
- Emission of carbon monoxide at less than 50 ton/yr with maximum estimated ground level concentration of less than $10,000 \mu\text{g}/\text{m}^3$. (based on Screen3 air modeling calculations),
- Emission of particulate matter at less than 50 ton/yr with maximum estimated ground level concentration of less than $50 \mu\text{g}/\text{m}^3$, and the average in-stack concentration of particulate matter shall be less than 0.05 grain/dscf corrected to 7% oxygen concentration,
- Visible emissions of less than 20% opacity.

5.1 Feed and Treated Soil Sampling Data

The results of the feed and treated soil analysis are presented in Table 5-1. Only results that were above the laboratory's reporting limit are presented. The complete lab analytical reports are presented in Appendix B.

The treated soil met the site's treatment standards for all three test runs.

Table 5-1. DIRECT FIRED TDU FEED AND TREATED SOIL SAMPLING RESULTS

Analyte		SCG	PREP Batch 1	PREP Batch 2	PREP Batch 8	PREP Batch 11	PREP Batch 12	FEED 1A	FEED 1A Dup	FEED 1B	PROD 1A	PROD 1A Dup	PROD 1B	PROD- EB	FEED 2A	FEED 2B	PROD 2A	PROD 2B	FEED 3A	FEED 3B	PROD 3A	PROD 3B
	units							result	result	result	result	result	result		result	result	result	result	result	result	result	result
PCBs 8082/3550B																						
Aroclor-1016	ug/kg																					
Aroclor-1221	ug/kg																					
Aroclor-1232	ug/kg																					
Aroclor-1242	ug/kg				19,000																	
Aroclor-1248	ug/kg		7,900	17,000		4,400	2,500	12,000							11,000				12,000			
Aroclor-1254	ug/kg					4,900	1,500	10,000	14,000						14,000				7,000			
Aroclor-1260	ug/kg																					
Total PCBs (PROD by congener)	ug/kg	1,000	7,900	17,000	19,000	9,300	4,000	22,000	14,000		9.5	12.3			25,000		5.5		19,000		10.8	
VOCs 8260B/5030B																						
Total VOCs		10,000	6	-	137	90	9	74	87	-	44	45	-		62	-	28	-	78	-	20	-
2-Butanone	ug/kg					6																
Acetone	ug/kg				38	42	9	33	37		44	45			33		28		24		20	
Ethylbenzene	ug/kg				17	5		6	6													
m-,p-Xylene	ug/kg				63	29		27	34						22				34			
Methylene chloride	ug/kg		6																			
o-Xylene	ug/kg				19	8		8	10						7				11			
SVOCs 8270C/3550B																						
Total SVOCs	ug/kg	500,000	1,034,000	490,000	32,200	16,730	6,370	130,600	220,700	-	370	-	-	-	72,360	-	-	-	28,240	-	-	-
Carcinogenic PAH																						
Phenol	ug/kg	10,000	353,000	167,000	13,000	3,960	2,140	40,020	68,700	-	-	-	-	-	18,250	-	-	-	7,800	-	-	-
1,2,4-Trichlorobenzene	ug/kg				100			750			370				810							
1,2-Dichlorobenzene	ug/kg					100																
1,4-Dichlorobenzene	ug/kg				200	100																
2,4-Dimethylphenol	ug/kg				760										820							
2-Methylnaphthalene	ug/kg		10,000	4,000		510	100		2,500						700				510			
2-Methylphenol	ug/kg				200			820														
4-Methylphenol	ug/kg							2,100							580							
Acenaphthene	ug/kg		26,000	10,000	450	640	100		5,900						1,700				360			
Dibenzofuran	ug/kg		18,000	7,000	200	680	100	2,400	4,800						1,500				1,000			
Fluorene	ug/kg		30,000	10,000	490	1,000	200	4,100	7,700						2,600				1,400			
Phenanthrene	ug/kg		140,000	75,000	3,300	2,300	760	20,000	36,000						12,000				5,100			
Anthracene	ug/kg		79,000	23,000	1,400	1,200	400	12,000	19,000						6,900				2,300			
Carbazole	ug/kg		21,000	10,000	200	200	100	3,000	5,200						1,600				450			
Fluoranthene	ug/kg		140,000	80,000	3,700	1,800	870	19,000	28,000						10,000				4,500			
Pyrene	ug/kg		150,000	74,000	4,000	2,300	1,000	17,000	29,000						10,000				3,900			
Benzo(a)anthracene	ug/kg		81,000	41,000	3,800	900	540	9,200	17,000						4,700				1,900			
Chrysene	ug/kg		69,000	38,000	3,100	840	480	8,100	14,000						4,300				1,800			
bis(2-Ethylhexyl)phthalate	ug/kg				1,700	200	200	810	1,100						400				420			
Benzo(b)fluoranthene	ug/kg		65,000	25,000	2,600	700	700	13,000	19,000						4,600				2,400			
Benzo(k)fluoranthene	ug/kg		66,000	27,000	1,500	800			2,500													
Benzo(a)pyrene	ug/kg		65,000	31,000	2,000	620	420	9,300	14,000						4,200				1,700			
Indeno(1,2,3-cd)pyrene	ug/kg		26,000	10,000	960	400	200	2,800	3,700						1,200							
Dibenzo(a,h)Anthracene	ug/kg		7,000	5,000		100		420	2,200						450							
Benzo(g,h,i)Perylene	ug/kg		16,000	10,000	830	450		2,600	3,700						1,200				500			
Di-N-Butylphthalate	ug/kg					80																
Isophorone	ug/kg					300																
Naphthalene	ug/kg		25,000	10,000	610	510	200		5,400						2,100							
METALS 6010B/3050B																						
Aluminum, Total	mg/kg		5100							7,910			8,490			9,230		7,840		6,680		10,000
Barium, Total	mg/kg		98.7										117			117		119		119		159
Beryllium, Total	mg/kg		0.3							94												
Cadmium, Total	mg/kg		0.01																			
Calcium, Total	mg/kg		37600							33,800			39,800			36,600		40,300		30,900		37,500
Chromium, Total	mg/kg	50	16.8	23.1	22.1	20.3	9			32			34			37		38		38		71

Table 5-1. DIRECT FIRED TDU FEED AND TREATED SOIL SAMPLING RESULTS

Analyte		SCG	PREP Batch 1	PREP Batch 2	PREP Batch 8	PREP Batch 11	PREP Batch 12	FEED 1A	FEED 1A Dup	FEED 1B	PROD 1A	PROD 1A Dup	PROD 1B	PROD- EB	FEED 2A	FEED 2B	PROD 2A	PROD 2B	FEED 3A	FEED 3B	PROD 3A	PROD 3B
	units							result	result	result	result	result	result		result	result	result	result	result	result	result	result
Cobalt, Total	mg/kg		15.1							16			19			19		19		19		25
Copper, Total	mg/kg		35.7							37			46			45		47		39		43
Iron, Total	mg/kg		13000							16,100			17,200			23,700		15,300		17,400		19,700
Magnesium, Total	mg/kg		10300							4,500			5,640			5,920		5,770		4,220		6,870
Manganese, Total	mg/kg		337							283			291			324		354		385		408
Nickel, Total	mg/kg		7.8																			
Potassium, Total	mg/kg		699							1,090			1,580			1,750		1,070		834		1,580
Sodium, Total	mg/kg		673							519			656			831		914		776		1,030
Vanadium, Total	mg/kg		15.1										14					12		12		13
Zinc, Total	mg/kg		115							122			136			154		172		159		336
Mercury, Total 7471A	mg/kg	2	0.371	0.11	0.33	0.063	1			0.374			u (0.223)			u (0.226)		0.481		0.510		u (0.227)
Arsenic, Total	mg/kg		4.86															2.95		1.75		2.18
Thallium, Total	mg/kg		0.14																			
Lead, Total 6020A\3051	mg/kg	1,200	83.4	131	111	65.3	60			141			189			193		186		199		418
pH 9045B			8.2	11.7	9.1	11.8	10.9	12.3	12.3	12.3	12.1	12.1	12.2		12.2	12.1	11.9	12.4	12.2	12.3	12.0	11.9
Percent Moisture D2216-98	% wt.		15.0	16.0	9.0	13.0	11.3	12.2	16.9	13.0	9.6	10.5	10.2		12.0	11.6	10.4	13.7	13.7	12.7	11.1	11.1
Ash Content ASTM D482	% wt.									89.7			91.2			90.3		90.4		87.2		88.2

Notes:

Values are generally reported only for those analytes with results that exceed the reporting limits

Values reported as "u(a)" represent an undetectable result with "a" being the value of the Reporting Limit (RL)

FEED-n

PROD-n

5.2 PoP Test Summary

Key measurements for the PoP testing are summarized in Table 5-2, and when there was a specified criteria, that is also given. These data are presented in detail in the report appendices. An example calculation for the DRE is provided in Appendix I.

Performance criteria listed in Table 5-2 were derived from the project specification. Some of the criteria were specifically developed during work plan preparation, in consideration of specified functional requirements. When appropriate, the ITRC guidance document and NYSDEC air quality regulations were used to support development of appropriate numerical criteria.

TABLE 5-2. DIRECT FIRED TDU PROOF OF PERFORMANCE DATA SUMMARY

	RUN 1	RUN 2	RUN 3	Criteria
Start	9:00	16:30	22:05	
End	14:50	20:55	2:35	
Duration	5:50	4:25	4:30	
Duration (hr)	5.83	4.42	4.50	
Scale Totalizer Start (tons)	6,465.1	6,757	6,985	
Scale Totalizer End (tons)	6,694	6,934	7,156	
Mass Fed (tons)	228.7	176.9	171.0	
Average Feed Rate (ton/hr)	39.2	40.0	38.0	
pyrene (POHC) in feed, ppm	17	10	3.9	
pyrene (POHC) feed rate, lb/hr	1.33	0.80	0.30	
pyrene (POHC) emission rate, lb/hr	6.43E-05	6.06E-04	2.50E-05	
DRE	99.995%	99.92%	99.992%	>99.99%
PCBs emission rate, lb/hr	1.58E-04	5.37E-05	5.90E-05	
HCl emission rate, lb/hr	0.12	0.17	0.30	<4.0
PM (grain/dscf) @7% O ₂	0.0008	0.0006	0.0006	<0.05
CO In-Stack concentration, ppm-V @7%O ₂	15.3	18.0	38.2	100
CO max ground conc (µg/m ³) Screen 3	1.851	2.228	4.551	<10,000
PM max ground conc (µg/m ³) Screen 3	0.1484	0.1147	0.1496	<50
Visible Emissions (% opacity)	0	0	0	20%
METALS, lb/hr				
chromium	0.0010	0.00021	0.00058	
lead	0.00072	0.00023	0.00034	
mercury	0.014	0.013	0.015	

Two of the three runs had DRE greater than the four-nines criteria. The stack had barely detectible concentrations of the POHC, therefore these DRE values are not qualified with the “greater than >” symbol, as would be the case if the stack concentration was below the test method reporting limit. The POHC stack emission rate for all three runs was extremely low, and evidence of excellent control of organic air pollutants by the ESMI unit.

Modeling was performed using the USEPA reference air emissions model, SCREEN 3. These calculations were performed using stack parameters and measured stack flow and concentration data for each test run. The model calculations are presented in Appendix F. These results confirm that the maximum ground level concentrations of CO and particulate matter are well below the national ambient air quality standards, which are the listed criteria in Table 5-2, and are 10,000 $\mu\text{g}/\text{m}^3$ for CO and 50 $\mu\text{g}/\text{m}^3$ for PM. This confirms that the ESMI unit does not have an ambient air quality impact resulting from the operations at the FBR site.

The measured HCl emission rates were 0.12 to 0.30 lb-HCl/hr, which is substantially below the 4 lb/hr criterion. Similarly, the PM in stack concentration was less than 0.0008 grain/dscf, which is substantially below the criterion of 0.05 grain/dscf. Both HCl and PM emissions met their relevant criteria.

5.3 CPMS Data

Operating data from the continuous process monitoring system (CPMS) is presented in Table 5-3. These parameters are those that are interlocked with the TDU automatic waste feed shutoff (AWFSO) system. The average value for each parameter is presented for the duration of each run, along with the minimum and maximum values. The standard deviation of the data is also presented as a statistical measure of variability for each parameter.

During Run #1A (organics DRE run) there was a period of time when the CO values were higher than the emissions test firm CEMS for CO. The ESMI CO analyzer was recalibrated in the middle of the run, and the indicated CO values were lower after the recalibration. It was determined during the recalibration that the refrigeration unit in the ESMI CEMS was set too low, causing a restriction in the sample flow. This problem was corrected, and the instrument functioned properly for the balance of the testing.

Each hour the ESMI operators make manual entries on log sheets. These log sheet entries have been presented in Appendix H for the two days of the PoP test activities. These entries are primarily for evaluating operating status over the shift, as well as to communicate to between operating shifts and management personnel. Valve settings, flows and internal temperatures are logged.

TABLE 5-3. DIRECT FIRED TDU CPMS DATA SUMMARY

	FI-9	TE-5A	PT-6	TE-12	PI-15	AE-19
	Feed Rate to Dryer (Ton/hr)	Dryer Discharge Soil Temp (F)	Dryer Draft Pressure (in. W.C)	Oxidizer Exhaust Gas Temp (F)	Bag House Diff. Pres. (in. W.C.) Operator's Log	Stack Carbon Monoxide (% vol at 7% O2)
Run 1						
Average	38.40	785.30	(0.63)	1,638.53	4.04	45.40 Note 1
Min	28.48	737.00	(2.50)	1,590.00	4.00	18.60
Max	47.79	839.00	-	1,685.00	4.20	65.67
Std Dev	3.5	22	0.6	21	0.1	13
Run 2						
Average	39.11	838.56	(0.67)	1,591.77	4.33	12.16
Min	27.95	776.00	(2.63)	1,565.00	4.00	4.47
Max	53.04	930.00	-	1,624.00	4.80	19.81
Standard Deviation	4.3	29	0.6	15	0.3	4
Run 3						
Average	37.99	790.49	(0.82)	1,608.53	4.00	18.21
Min	20.62	717.00	(2.86)	1,558.00	4.00	0.48
Max	51.13	896.00	-	1,643.00	4.00	123.24
Standard Deviation	4.5	34	0.7	23	-	13

Note 1: CO instrument recalibrated in middle of Run 1, CO values high and did not match stack test unit CEMS. Probably due to problem with setting of refrigeration unit in sample conditioning system.

5.4 CEMS Data for THC

The PoP test emission test contractor CEM data demonstrate that the unit operates with CO consistently below 100 ppm. Simultaneous with this demonstration, the THC concentration in the stack was demonstrated to average 1.98, 2.13 and 1.71 ppm for CEMS runs #1, #2 and #3, respectively. These CEMS data are presented in Appendix E. This demonstration meets the objectives of the PoP test plan and the Thermal Work Plan. It is recommended that a THC monitor not be required for the CEMS for the balance of the project, and that continuous performance verification be based on the CO monitor in the CEMS. This is consistent with the hazardous waste combustor MACT [ref. 40 CFR 60.1203(a)(5)(i)].

5.5 Emissions Testing QC Evaluation

The emission test data met applicable QC requirements for the test methods. An evaluation of the data is provided in the emissions test report that is included as Appendix L.

In summary, Section 2.5 of the Emissions Test Report addresses measurement of the particulate matter filters with “negative” recovery weights. This is a common occurrence in very low particulate loading situations, especially in high-efficiency dust collectors that have recently been optimized. The negative gain does not pose a quality issues because of the appearance of the filters was noted to be intact and completely recovered in the test.

The VOST method 0030 samples are discussed in section 2.12 of the emissions test report. It appears that the tubes "filled up" meaning they reached their maximum capacity for the calibration ranges outlined within SW0846 Method 0030. This is also not uncommon when sampling for VOST compounds. Maxxam has a SOP for dealing with this condition, and it is noted in the report. Furthermore, a sampling anomaly occurred during the third run when almost twice the sample volume was metered for all three VOST tube sets. The vacuum on the system was also very high, indicating there was some obstruction in the sampling train. The sample flow rate was increased to compensate, resulting in a larger than normal sample volume. This is the conservative corrective measure for almost all non-isokinetic tests. This situation occurred at the time of Run 3 sampling (2230-0130 approx).

Both the PM and VOST results were determined to be acceptable according to the test methods and standard lab procedures, and yield valid data for the emissions testing program.

5.6 Proposed Operating Parameters

The following operating envelope was developed jointly between ESML, Earth Tech and NYSDEC after a review of the operational and performance data for the direct fired TDU.

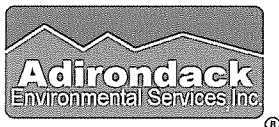
- Feed Rate – 40 ton/hr maximum, computed with 5-min. Rolling Average, with 10-min time delay.
- Dryer Discharge Soil – 775° F minimum, computed with 60-min rolling average, with 10-min. time delay
- Dryer Draft – 0.1 in w.c. draft minimum, computed with a 1 minute rolling average, with a 1 min time delay.
- STU Exhaust Gas Temperature - 1625° F minimum, with a 2 minute time delay.
- Baghouse DP – 2.5 in w.c. minimum, computed with 5 min rolling average
- CO in stack, adjusted to 7% O₂ – 30 ppm computed with 5 min rolling average, with 30 min time delay.

Appendix A

Preliminary Letter Reports

Appendix B

Feed and Treated Soil Analytical Data



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 09, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070105040

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
Pretreatment Soil Analysis

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 1 sample on 1/5/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

J. Bradshaw 377-4270 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 09-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH-010507
Work Order: 070105040 **Collection Date:** 1/5/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070105040-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A						Analyst: KF
(Prep: SW3545 - 1/5/2007)						
4,4'-DDD	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
4,4'-DDE	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
4,4'-DDT	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aldrin	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
alpha-BHC	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
alpha-Chlordane	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
beta-BHC	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Chlordane	< 10000	10000		µg/Kg-dry	50	1/5/2007 10:16:25 PM
delta-BHC	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Dieldrin	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Endosulfan I	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Endosulfan II	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Endosulfan sulfate	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Endrin	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Endrin aldehyde	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Endrin ketone	< 190	190		µg/Kg-dry	50	1/5/2007 10:16:25 PM
gamma-BHC	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
gamma-Chlordane	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Heptachlor	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Heptachlor epoxide	< 100	100		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Methoxychlor	< 1000	1000		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Toxaphene	< 10000	10000		µg/Kg-dry	50	1/5/2007 10:16:25 PM
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 1/5/2007)						
Aroclor 1016	< 1900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aroclor 1221	< 1900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aroclor 1232	< 1900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aroclor 1242	< 1900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aroclor 1248	7900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aroclor 1254	< 1900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
Aroclor 1260	< 1900	1900		µg/Kg-dry	50	1/5/2007 10:16:25 PM
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 1/8/2007)						
Aluminum	5100	23.5		µg/g-dry	1	1/8/2007 1:14:00 PM
Antimony	< 14.1	14.1		µg/g-dry	1	1/8/2007 1:14:00 PM
Arsenic	4.86	1.18		µg/g-dry	1	1/8/2007 1:14:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 09-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH-010507
Work Order: 070105040 **Collection Date:** 1/5/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070105040-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						
(Prep: SW3050A - 1/8/2007)						Analyst: SM
Barium	98.7	2.35		µg/g-dry	1	1/8/2007 1:14:00 PM
Beryllium	0.30	1.18	J	µg/g-dry	1	1/8/2007 1:14:00 PM
Cadmium	0.01	1.18	J	µg/g-dry	1	1/8/2007 1:14:00 PM
Calcium	37600	118		µg/g-dry	1	1/8/2007 1:14:00 PM
Chromium	16.8	1.18		µg/g-dry	1	1/8/2007 1:14:00 PM
Cobalt	15.1	11.8		µg/g-dry	1	1/8/2007 1:14:00 PM
Copper	35.7	1.18		µg/g-dry	1	1/8/2007 1:14:00 PM
Iron	13000	11.8		µg/g-dry	1	1/8/2007 1:14:00 PM
Lead	83.4	1.18		µg/g-dry	1	1/8/2007 1:14:00 PM
Magnesium	10300	118		µg/g-dry	1	1/8/2007 1:14:00 PM
Manganese	337	2.35		µg/g-dry	1	1/8/2007 1:14:00 PM
Nickel	7.8	11.8	J	µg/g-dry	1	1/8/2007 1:14:00 PM
Potassium	699	118		µg/g-dry	1	1/8/2007 1:14:00 PM
Selenium	< 1.18	1.18		µg/g-dry	1	1/8/2007 1:14:00 PM
Silver	< 4.71	4.71		µg/g-dry	1	1/8/2007 1:14:00 PM
Sodium	673	118		µg/g-dry	1	1/8/2007 1:14:00 PM
Thallium	0.14	2.35	J	µg/g-dry	1	1/8/2007 1:14:00 PM
Vanadium	15.1	11.8		µg/g-dry	1	1/8/2007 1:14:00 PM
Zinc	115	2.35		µg/g-dry	1	1/8/2007 1:14:00 PM
MERCURY SW7471A						
(Prep: SW7471A - 1/8/2007)						Analyst: KH
Mercury	0.371	0.235	S	µg/g-dry	1	1/9/2007
SEMI VOLATILE ORGANICS SW8270C						
(Prep: SW3545 - 1/5/2007)						Analyst: MT
Phenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Bis(2-chloroethyl)ether	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2-Chlorophenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
1,3-Dichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
1,4-Dichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
1,2-Dichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2-Methylphenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Bis(2-chloroisopropyl)ether	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Methylphenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
N-Nitrosodi-n-propylamine	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Hexachloroethane	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Nitrobenzene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 09-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH-010507
Work Order: 070105040 **Collection Date:** 1/5/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070105040-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/5/2007)						
Isophorone	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2-Nitrophenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,4-Dimethylphenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Bis(2-chloroethoxy)methane	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,4-Dichlorophenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
1,2,4-Trichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Naphthalene	25000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Chloroaniline	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Hexachlorobutadiene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Chloro-3-methylphenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2-Methylnaphthalene	10000	16000	J	µg/Kg-dry	40	1/8/2007 3:58:00 PM
Hexachlorocyclopentadiene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,4,6-Trichlorophenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,4,5-Trichlorophenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2-Chloronaphthalene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2-Nitroaniline	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Dimethyl phthalate	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Acenaphthylene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,6-Dinitrotoluene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
3-Nitroaniline	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Acenaphthene	26000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,4-Dinitrophenol	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Nitrophenol	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Dibenzofuran	18000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
2,4-Dinitrotoluene	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Diethyl phthalate	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Chlorophenyl phenyl ether	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Fluorene	30000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Nitroaniline	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4,6-Dinitro-2-methylphenol	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
N-Nitrosodiphenylamine	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
4-Bromophenyl phenyl ether	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Hexachlorobenzene	< 79000	79000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Pentachlorophenol	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Phenanthrene	140000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Anthracene	79000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Carbazole	21000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Di-n-butyl phthalate	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM

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 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 09-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTDD PRE NT BATCH-010507
Work Order: 070105040 **Collection Date:** 1/5/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070105040-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/5/2007)						
Fluoranthene	140000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Pyrene	150000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Butyl benzyl phthalate	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
3,3'-Dichlorobenzidine	< 31000	31000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Benzo(a)anthracene	81000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Chrysene	69000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Bis(2-ethylhexyl)phthalate	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Di-n-octyl phthalate	< 16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Benzo(b)fluoranthene	65000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Benzo(k)fluoranthene	66000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Benzo(a)pyrene	65000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Indeno(1,2,3-cd)pyrene	26000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
Dibenz(a,h)anthracene	7000	16000	J	µg/Kg-dry	40	1/8/2007 3:58:00 PM
Benzo(g,h,i)perylene	16000	16000		µg/Kg-dry	40	1/8/2007 3:58:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Bromomethane	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Vinyl chloride	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Chloroethane	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Methylene chloride	6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Acetone	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
2-Butanone	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

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 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 09-Jan-07

CLIENT: D.A.Collins Environment Client Sample ID: LTTD PRE NT BATCH-010507
 Work Order: 070105040 Collection Date: 1/5/2007
 Reference: Freeman's Bridge Road / Pretreatment Soil Analy Lab Sample ID: 070105040-001
 PO#: Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Benzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
4-Methyl-2-pentanone	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
2-Hexanone	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Toluene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Styrene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Cyclohexane	< 12	12		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 12:07:00 PM

PH SW9045B

Analyst: LS

pH	8.2	1.0		pH Units	1	1/8/2007
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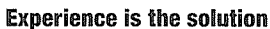
MOISURE CONTENT D2216

Analyst: KF

Percent Moisture	15.0	1.0		wt%	1	1/5/2007
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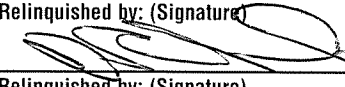
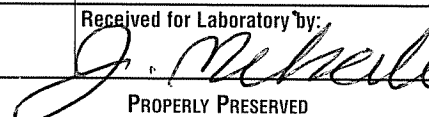
Qualifiers:
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S - Spike Recovery outside accepted recovery limits
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 E - Value above quantitation range



CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

AES Work Order #: 070105040		CC Report To / Special Instructions/Remarks: PCB's - <u>RUSH</u> ASAP ALL THE REST 48 HOURS client	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) 		Received by: (Signature) _____ Date/Time _____	
Relinquished by: (Signature) _____		Received by: (Signature) _____ Date/Time _____	
Relinquished by: (Signature) _____		Received for Laboratory by:  Date/Time 11/5/07 4:00	
TEMPERATURE Ambient or <u>Chilled</u> Notes: <u>16</u>		PROPERLY PRESERVED <u>Y</u> N Notes: _____	
		RECEIVED WITHIN HOLDING TIMES <u>Y</u> N Notes: _____	

PINK - Generator Copy

Adirondack Environmental Services, Inc.



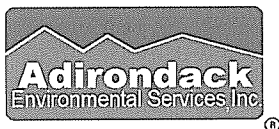
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 17, 2007

Jay Bradshaw
D.A. Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070108031

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
Pretreatment Soil Analysis

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 1/8/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

J. Bradshaw 377-4270 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 17-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 2-0108
Work Order: 070108031 **Collection Date:** 1/8/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070108031-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A						Analyst: KF
(Prep: SW3545 - 1/8/2007)						
4,4'-DDD	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
4,4'-DDE	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
4,4'-DDT	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aldrin	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
alpha-BHC	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
alpha-Chlordane	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
beta-BHC	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Chlordane	< 20000	20000		µg/Kg-dry	100	1/8/2007 6:15:01 PM
delta-BHC	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Dieldrin	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Endosulfan I	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Endosulfan II	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Endosulfan sulfate	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Endrin	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Endrin aldehyde	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Endrin ketone	< 390	390		µg/Kg-dry	100	1/8/2007 6:15:01 PM
gamma-BHC	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
gamma-Chlordane	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Heptachlor	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Heptachlor epoxide	< 200	200		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Methoxychlor	< 2000	2000		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Toxaphene	< 20000	20000		µg/Kg-dry	100	1/8/2007 6:15:01 PM
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 1/8/2007)						
Aroclor 1016	< 3900	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aroclor 1221	< 3900	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aroclor 1232	< 3900	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aroclor 1242	< 3900	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aroclor 1248	17000	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aroclor 1254	< 3900	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
Aroclor 1260	< 3900	3900		µg/Kg-dry	100	1/8/2007 6:15:01 PM
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 1/9/2007)						
Aluminum	6470	23.8		µg/g-dry	1	1/9/2007 2:07:00 PM
Antimony	< 14.3	14.3		µg/g-dry	1	1/9/2007 2:07:00 PM
Arsenic	5.30	1.19		µg/g-dry	1	1/9/2007 2:07:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 17-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 2-0108
Work Order: 070108031 **Collection Date:** 1/8/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070108031-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 1/9/2007)						
Barium	122	2.38		µg/g-dry	1	1/9/2007 2:07:00 PM
Beryllium	0.40	1.19	J	µg/g-dry	1	1/9/2007 2:07:00 PM
Cadmium	0.66	1.19	J	µg/g-dry	1	1/9/2007 2:07:00 PM
Calcium	68100	1190		µg/g-dry	10	1/9/2007 2:45:00 PM
Chromium	23.1	1.19		µg/g-dry	1	1/9/2007 2:07:00 PM
Cobalt	18.0	11.9		µg/g-dry	1	1/9/2007 2:07:00 PM
Copper	37.8	1.19		µg/g-dry	1	1/9/2007 2:07:00 PM
Iron	13500	11.9		µg/g-dry	1	1/9/2007 2:07:00 PM
Lead	131	1.19		µg/g-dry	1	1/9/2007 2:07:00 PM
Magnesium	15500	119		µg/g-dry	1	1/9/2007 2:07:00 PM
Manganese	308	2.38		µg/g-dry	1	1/9/2007 2:07:00 PM
Nickel	4.1	11.9	J	µg/g-dry	1	1/9/2007 2:07:00 PM
Potassium	1010	119		µg/g-dry	1	1/9/2007 2:07:00 PM
Selenium	< 1.19	1.19		µg/g-dry	1	1/9/2007 2:07:00 PM
Silver	< 4.76	4.76		µg/g-dry	1	1/9/2007 2:07:00 PM
Sodium	913	119		µg/g-dry	1	1/9/2007 2:07:00 PM
Thallium	0.50	2.38	J	µg/g-dry	1	1/9/2007 2:07:00 PM
Vanadium	16.8	11.9		µg/g-dry	1	1/9/2007 2:07:00 PM
Zinc	219	2.38		µg/g-dry	1	1/9/2007 2:07:00 PM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 1/9/2007)						
Mercury	0.11	0.238	JS	µg/g-dry	1	1/9/2007
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/8/2007)						
Phenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Bis(2-chloroethyl)ether	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2-Chlorophenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
1,3-Dichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
1,4-Dichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
1,2-Dichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2-Methylphenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Bis(2-chloroisopropyl)ether	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Methylphenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
N-Nitrosodi-n-propylamine	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Hexachloroethane	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Nitrobenzene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM

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Adirondack Environmental Services, Inc

Date: 17-Jan-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 2-0108
Work Order: 070108031 **Collection Date:** 1/8/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Analy **Lab Sample ID:** 070108031-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/8/2007)						
Isophorone	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2-Nitrophenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,4-Dimethylphenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Bis(2-chloroethoxy)methane	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,4-Dichlorophenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
1,2,4-Trichlorobenzene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Naphthalene	10000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Chloroaniline	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Hexachlorobutadiene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Chloro-3-methylphenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2-Methylnaphthalene	4000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
Hexachlorocyclopentadiene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,4,6-Trichlorophenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,4,5-Trichlorophenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2-Chloronaphthalene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2-Nitroaniline	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Dimethyl phthalate	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Acenaphthylene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,6-Dinitrotoluene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
3-Nitroaniline	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Acenaphthene	10000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,4-Dinitrophenol	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Nitrophenol	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Dibenzofuran	7000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
2,4-Dinitrotoluene	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Diethyl phthalate	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Chlorophenyl phenyl ether	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Fluorene	10000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Nitroaniline	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
4,6-Dinitro-2-methylphenol	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
N-Nitrosodiphenylamine	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
4-Bromophenyl phenyl ether	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Hexachlorobenzene	< 80000	80000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Pentachlorophenol	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Phenanthrene	75000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Anthracene	23000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Carbazole	10000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
Di-n-butyl phthalate	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM

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 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 17-Jan-07

CLIENT: D.A.Collins Environment Client Sample ID: LTTD PRE NT BATCH 2-0108
 Work Order: 070108031 Collection Date: 1/8/2007
 Reference: Freeman's Bridge Road / Pretreatment Soil Analy Lab Sample ID: 070108031-001
 PO#: Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/8/2007)						
Fluoranthene	80000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Pyrene	74000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Butyl benzyl phthalate	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
3,3'-Dichlorobenzidine	< 31000	31000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Benz(a)anthracene	41000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Chrysene	38000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Bis(2-ethylhexyl)phthalate	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Di-n-octyl phthalate	< 16000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Benzo(b)fluoranthene	25000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Benzo(k)fluoranthene	27000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Benzo(a)pyrene	31000	16000		µg/Kg-dry	40	1/10/2007 10:36:00 AM
Indeno(1,2,3-cd)pyrene	10000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
Dibenz(a,h)anthracene	5000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM
Benzo(g,h,i)perylene	10000	16000	J	µg/Kg-dry	40	1/10/2007 10:36:00 AM

VOLATILE ORGANICS SW8260B Analyst: ML

Chloromethane	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Bromomethane	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Vinyl chloride	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Chloroethane	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Acetone	16	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
2-Butanone	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM

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 X - Value exceeds Maximum Contaminant Level

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 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 17-Jan-07

CLIENT: D.A.Collins Environment**Client Sample ID:** LTDD PRE NT BATCH 2-0108**Work Order:** 070108031**Collection Date:** 1/8/2007**Reference:** Freeman's Bridge Road / Pretreatment Soil Analy**Lab Sample ID:** 070108031-001**PO#:****Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Benzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
4-Methyl-2-pentanone	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
2-Hexanone	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Toluene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Styrene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Methyl Acetate	15	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Cyclohexane	< 12	12		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	1/8/2007 4:47:00 PM

HEAT VALUE ASTM D240-76Analyst: **TMD**

Heat Value	< 1000	1000	btu/lb	1	1/17/2007
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PH SW9045BAnalyst: **LS**

pH	11.7	1.0	pH Units	1	1/9/2007
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Qualifiers: ND - Not Detected at the Reporting Limit
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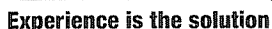
S - Spike Recovery outside accepted recovery limits
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T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc**Date:** 17-Jan-07**CLIENT:** D.A.Collins Environment**Client Sample ID:** LT TD PRE NT BATCH 2-0108**Work Order:** 070108031**Collection Date:** 1/8/2007**Reference:** Freeman's Bridge Road / Pretreatment Soil Analy**Lab Sample ID:** 070108031-001**PO#:****Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
MOISURE CONTENT D2216						Analyst: KF
Percent Moisture	16.0	1.0		wt%	1	1/8/2007

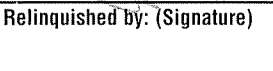
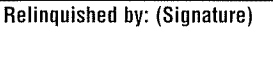
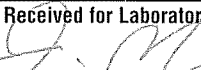
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CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

AES Work Order #: 070108031		CC Report to / Special Instructions/Remarks: WATER - RUSH, ASAP SOIL - PCB RUSH, ALLWKE 48 HRS CALL JAY - 361-1247 Rapid	
Turnaround Time Request: ☒ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day		Relinquished by: (Signature) 	
Relinquished by: (Signature) 		Received by: (Signature) 	
Relinquished by: (Signature) 		Received for Laboratory by: 	
Temperature Ambient or Chilled 		Properly Preserved Y N 	
Notes: _____		Notes: _____	
Received Within Holding Times Y N 		Notes: _____	

PINK - Generator Copy

Adirondack Environmental Services, Inc.



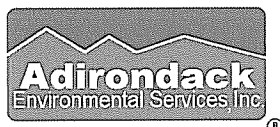
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

January 24, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070123021

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road

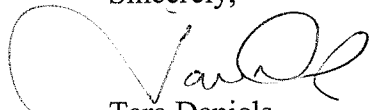
Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 1/23/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment

Client Sample ID: LTTD PRE NT BATCH 7-0123

Work Order: 070123021

Collection Date: 1/23/2007

Reference: Freeman's Bridge Road /

Lab Sample ID: 070123021-001

PO#:

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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ORGANOCHLORINE PESTICIDES SW8081A

Analyst: KF

(Prep: SW3545 - 1/23/2007)

4,4'-DDD	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
4,4'-DDE	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
4,4'-DDT	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aldrin	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
alpha-BHC	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
alpha-Chlordane	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
beta-BHC	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Chlordane	< 200000	200000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
delta-BHC	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Dieldrin	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Endosulfan I	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Endosulfan II	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Endosulfan sulfate	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Endrin	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Endrin aldehyde	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Endrin ketone	< 3800	3800		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
gamma-BHC	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
gamma-Chlordane	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Heptachlor	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Heptachlor epoxide	< 2000	2000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Methoxychlor	< 20000	20000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Toxaphene	< 200000	200000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM

POLYCHLORINATED BIPHENYLS SW8082

Analyst: KF

(Prep: SW3545 - 1/23/2007)

Aroclor 1016	< 38000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aroclor 1221	< 38000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aroclor 1232	< 38000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aroclor 1242	110000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aroclor 1248	< 38000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aroclor 1254	< 38000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM
Aroclor 1260	< 38000	38000		µg/Kg-dry	1000	1/23/2007 5:42:56 PM

ICP METALS SW6010B

Analyst: SM

(Prep: SW3050A - 1/23/2007)

Aluminum	6350	23.0		µg/g-dry	1	1/23/2007 3:19:00 PM
Antimony	1.7	13.8	J	µg/g-dry	1	1/23/2007 3:19:00 PM
Arsenic	< 1.15	1.15		µg/g-dry	1	1/23/2007 3:19:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 7-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 1/23/2007)						
Barium	237	2.30		µg/g-dry	1	1/23/2007 3:19:00 PM
Beryllium	0.36	1.15	J	µg/g-dry	1	1/23/2007 3:19:00 PM
Cadmium	0.56	1.15	J	µg/g-dry	1	1/23/2007 3:19:00 PM
Calcium	37000	115		µg/g-dry	1	1/23/2007 3:19:00 PM
Chromium	43.2	1.15		µg/g-dry	1	1/23/2007 3:19:00 PM
Cobalt	30.9	11.5		µg/g-dry	1	1/23/2007 3:19:00 PM
Copper	81.9	1.15		µg/g-dry	1	1/23/2007 3:19:00 PM
Iron	17400	11.5		µg/g-dry	1	1/23/2007 3:19:00 PM
Lead	466	1.15		µg/g-dry	1	1/23/2007 3:19:00 PM
Magnesium	8080	115		µg/g-dry	1	1/23/2007 3:19:00 PM
Manganese	348	2.30		µg/g-dry	1	1/23/2007 3:19:00 PM
Nickel	1.5	11.5	J	µg/g-dry	1	1/23/2007 3:19:00 PM
Potassium	798	115		µg/g-dry	1	1/23/2007 3:19:00 PM
Selenium	< 1.15	1.15		µg/g-dry	1	1/23/2007 3:19:00 PM
Silver	2.1	4.60	J	µg/g-dry	1	1/23/2007 3:19:00 PM
Sodium	1200	115		µg/g-dry	1	1/23/2007 3:19:00 PM
Thallium	< 2.30	2.30		µg/g-dry	1	1/23/2007 3:19:00 PM
Vanadium	9.9	11.5	J	µg/g-dry	1	1/23/2007 3:19:00 PM
Zinc	364	2.30		µg/g-dry	1	1/23/2007 3:19:00 PM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 1/23/2007)						
Mercury	0.21	0.230	J	µg/g-dry	1	1/24/2007
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/23/2007)						
Phenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Bis(2-chloroethyl)ether	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2-Chlorophenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
1,3-Dichlorobenzene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
1,4-Dichlorobenzene	500	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
1,2-Dichlorobenzene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2-Methylphenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Bis(2-chloroisopropyl)ether	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Methylphenol	920	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
N-Nitrosodi-n-propylamine	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Hexachloroethane	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Nitrobenzene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM

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Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 7-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/23/2007)						
Isophorone	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2-Nitrophenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,4-Dimethylphenol	4100	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Bis(2-chloroethoxy)methane	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,4-Dichlorophenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
1,2,4-Trichlorobenzene	400	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
Naphthalene	2000	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Chloroaniline	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Hexachlorobutadiene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Chloro-3-methylphenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2-Methylnaphthalene	2600	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Hexachlorocyclopentadiene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,4,6-Trichlorophenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,4,5-Trichlorophenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2-Chloronaphthalene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
2-Nitroaniline	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Dimethyl phthalate	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Acenaphthylene	200	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,6-Dinitrotoluene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
3-Nitroaniline	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Acenaphthene	700	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,4-Dinitrophenol	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Nitrophenol	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Dibenzofuran	400	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
2,4-Dinitrotoluene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Diethyl phthalate	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Chlorophenyl phenyl ether	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Fluorene	700	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Nitroaniline	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4,6-Dinitro-2-methylphenol	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
N-Nitrosodiphenylamine	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
4-Bromophenyl phenyl ether	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Hexachlorobenzene	< 3800	3800		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Pentachlorophenol	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Phenanthrene	4100	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Anthracene	1500	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Carbazole	500	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
Di-n-butyl phthalate	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM

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Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 7-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/23/2007)						
Fluoranthene	2400	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Pyrene	1600	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Butyl benzyl phthalate	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
3,3'-Dichlorobenzidine	< 1500	1500		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Benz(a)anthracene	1300	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Chrysene	1000	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Bis(2-ethylhexyl)phthalate	5100	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Di-n-octyl phthalate	300	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
Benzo(b)fluoranthene	990	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Benzo(k)fluoranthene	870	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Benzo(a)pyrene	770	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Indeno(1,2,3-cd)pyrene	300	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
Dibenz(a,h)anthracene	< 760	760		µg/Kg-dry	2	1/24/2007 3:26:00 PM
Benzo(g,h,i)perylene	300	760	J	µg/Kg-dry	2	1/24/2007 3:26:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Bromomethane	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Vinyl chloride	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Chloroethane	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Methylene chloride	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Acetone	300	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Carbon disulfide	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,1-Dichloroethene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,1-Dichloroethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
trans-1,2-Dichloroethene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
cis-1,2-Dichloroethene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Chloroform	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,2-Dichloroethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
2-Butanone	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,1,1-Trichloroethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Carbon tetrachloride	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Bromodichloromethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,2-Dichloropropane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
cis-1,3-Dichloropropene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Trichloroethene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Dibromochloromethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM

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R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 7-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-001
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

1,1,2-Trichloroethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Benzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
trans-1,3-Dichloropropene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Bromoform	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
4-Methyl-2-pentanone	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
2-Hexanone	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Tetrachloroethene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,1,2,2-Tetrachloroethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Toluene	78	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Chlorobenzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Ethylbenzene	180	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Styrene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
m,p-Xylene	740	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
o-Xylene	230	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Methyl tert-butyl ether	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Dichlorodifluoromethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Methyl Acetate	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Trichlorofluoromethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Cyclohexane	< 110	110		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Methyl Cyclohexane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,2-Dibromoethane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,3-Dichlorobenzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
Isopropylbenzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,4-Dichlorobenzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,2-Dichlorobenzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,2-Dibromo-3-chloropropane	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM
1,2,4-Trichlorobenzene	< 57	57		µg/Kg-dry	10	1/23/2007 3:02:00 PM

PH SW9045B

Analyst: LS

pH	10.7	1.0		pH Units	1	1/24/2007
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MOISURE CONTENT D2216

Analyst: KF

Percent Moisture	13.0	1.0		wt%	1	1/23/2007
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R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 8-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A						Analyst: KF
(Prep: SW3545 - 1/23/2007)						
4,4'-DDD	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
4,4'-DDE	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
4,4'-DDT	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aldrin	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
alpha-BHC	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
alpha-Chlordane	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
beta-BHC	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Chlordane	< 37000	37000		µg/Kg-dry	200	1/23/2007 7:19:41 PM
delta-BHC	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Dieldrin	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Endosulfan I	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Endosulfan II	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Endosulfan sulfate	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Endrin	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Endrin aldehyde	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Endrin ketone	< 730	730		µg/Kg-dry	200	1/23/2007 7:19:41 PM
gamma-BHC	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
gamma-Chlordane	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Heptachlor	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Heptachlor epoxide	< 370	370		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Methoxychlor	< 3700	3700		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Toxaphene	< 37000	37000		µg/Kg-dry	200	1/23/2007 7:19:41 PM
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 1/23/2007)						
Aroclor 1016	< 7300	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aroclor 1221	< 7300	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aroclor 1232	< 7300	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aroclor 1242	19000	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aroclor 1248	< 7300	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aroclor 1254	< 7300	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
Aroclor 1260	< 7300	7300		µg/Kg-dry	200	1/23/2007 7:19:41 PM
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 1/23/2007)						
Aluminum	6050	22.0		µg/g-dry	1	1/23/2007 3:49:00 PM
Antimony	1.0	13.2	J	µg/g-dry	1	1/23/2007 3:49:00 PM
Arsenic	< 1.10	1.10		µg/g-dry	1	1/23/2007 3:49:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentatively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 8-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 1/23/2007)						
Barium	97.6	2.20		µg/g-dry	1	1/23/2007 3:49:00 PM
Beryllium	0.33	1.10	J	µg/g-dry	1	1/23/2007 3:49:00 PM
Cadmium	< 1.10	1.10		µg/g-dry	1	1/23/2007 3:49:00 PM
Calcium	24600	110		µg/g-dry	1	1/23/2007 3:49:00 PM
Chromium	22.1	1.10		µg/g-dry	1	1/23/2007 3:49:00 PM
Cobalt	16.5	11.0		µg/g-dry	1	1/23/2007 3:49:00 PM
Copper	29.4	1.10		µg/g-dry	1	1/23/2007 3:49:00 PM
Iron	15000	11.0		µg/g-dry	1	1/23/2007 3:49:00 PM
Lead	111	1.10		µg/g-dry	1	1/23/2007 3:49:00 PM
Magnesium	8870	110		µg/g-dry	1	1/23/2007 3:49:00 PM
Manganese	356	2.20		µg/g-dry	1	1/23/2007 3:49:00 PM
Nickel	3.5	11.0	J	µg/g-dry	1	1/23/2007 3:49:00 PM
Potassium	654	110		µg/g-dry	1	1/23/2007 3:49:00 PM
Selenium	< 1.10	1.10		µg/g-dry	1	1/23/2007 3:49:00 PM
Silver	< 4.40	4.40		µg/g-dry	1	1/23/2007 3:49:00 PM
Sodium	633	110		µg/g-dry	1	1/23/2007 3:49:00 PM
Thallium	< 2.20	2.20		µg/g-dry	1	1/23/2007 3:49:00 PM
Vanadium	11	11.0	J	µg/g-dry	1	1/23/2007 3:49:00 PM
Zinc	131	2.20		µg/g-dry	1	1/23/2007 3:49:00 PM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 1/23/2007)						
Mercury	0.330	0.220		µg/g-dry	1	1/24/2007
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/23/2007)						
Phenol	100	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
Bis(2-chloroethyl)ether	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2-Chlorophenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
1,3-Dichlorobenzene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
1,4-Dichlorobenzene	200	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
1,2-Dichlorobenzene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2-Methylphenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Bis(2-chloroisopropyl)ether	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Methylphenol	200	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
N-Nitrosodi-n-propylamine	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Hexachloroethane	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Nitrobenzene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM

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T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 8-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/23/2007)						
Isophorone	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2-Nitrophenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,4-Dimethylphenol	760	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Bis(2-chloroethoxy)methane	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,4-Dichlorophenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
1,2,4-Trichlorobenzene	100	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
Naphthalene	610	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Chloroaniline	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Hexachlorobutadiene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Chloro-3-methylphenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2-Methylnaphthalene	820	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Hexachlorocyclopentadiene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,4,6-Trichlorophenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,4,5-Trichlorophenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2-Chloronaphthalene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2-Nitroaniline	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Dimethyl phthalate	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Acenaphthylene	200	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,6-Dinitrotoluene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
3-Nitroaniline	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Acenaphthene	450	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,4-Dinitrophenol	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Nitrophenol	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Dibenzofuran	200	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
2,4-Dinitrotoluene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Diethyl phthalate	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Chlorophenyl phenyl ether	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Fluorene	490	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Nitroaniline	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4,6-Dinitro-2-methylphenol	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
N-Nitrosodiphenylamine	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
4-Bromophenyl phenyl ether	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Hexachlorobenzene	< 1800	1800		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Pentachlorophenol	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Phenanthrene	3300	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Anthracene	1400	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Carbazole	200	360	J	µg/Kg-dry	1	1/24/2007 2:51:00 PM
Di-n-butyl phthalate	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM

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E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 8-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 1/23/2007)						
Fluoranthene	3700	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Pyrene	4000	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Butyl benzyl phthalate	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
3,3'-Dichlorobenzidine	< 730	730		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Benz(a)anthracene	3800	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Chrysene	3100	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Bis(2-ethylhexyl)phthalate	1700	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Di-n-octyl phthalate	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Benzo(b)fluoranthene	2600	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Benzo(k)fluoranthene	1500	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Benzo(a)pyrene	2000	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Indeno(1,2,3-cd)pyrene	960	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Dibenz(a,h)anthracene	< 360	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
Benzo(g,h,i)perylene	830	360		µg/Kg-dry	1	1/24/2007 2:51:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Bromomethane	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Vinyl chloride	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Chloroethane	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Methylene chloride	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Acetone	38	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Carbon disulfide	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,1-Dichloroethene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,1-Dichloroethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
trans-1,2-Dichloroethene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
cis-1,2-Dichloroethene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Chloroform	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,2-Dichloroethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
2-Butanone	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,1,1-Trichloroethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Carbon tetrachloride	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Bromodichloromethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,2-Dichloropropane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
cis-1,3-Dichloropropene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Trichloroethene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Dibromochloromethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 24-Jan-07

CLIENT: D.A.Collins Environment
Work Order: 070123021
Reference: Freeman's Bridge Road /
PO#:

Client Sample ID: LTTD PRE NT BATCH 8-0123
Collection Date: 1/23/2007
Lab Sample ID: 070123021-002
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

1,1,2-Trichloroethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Benzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
trans-1,3-Dichloropropene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Bromoform	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
4-Methyl-2-pentanone	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
2-Hexanone	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Tetrachloroethene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,1,2,2-Tetrachloroethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Toluene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Chlorobenzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Ethylbenzene	17	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Styrene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
m,p-Xylene	63	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
o-Xylene	19	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Methyl tert-butyl ether	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Dichlorodifluoromethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Methyl Acetate	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Trichlorofluoromethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Cyclohexane	< 22	22		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Methyl Cyclohexane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,2-Dibromoethane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,3-Dichlorobenzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
Isopropylbenzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,4-Dichlorobenzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,2-Dichlorobenzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,2-Dibromo-3-chloropropane	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM
1,2,4-Trichlorobenzene	< 11	11		µg/Kg-dry	2	1/23/2007 4:25:00 PM

PH SW9045B

Analyst: LS

pH	9.1	1.0		pH Units	1	1/24/2007
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MOISURE CONTENT D2216

Analyst: KF

Percent Moisture	9.0	1.0		wt%	1	1/23/2007
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314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: DA COLLINS		Address:						
Send Report To: J BRADSHAW		Project Name (Location): FBR			Samplers (Names): J BRADSHAW			
Client Phone No: 361-1247		Client Fax No: 377-4147		PO Number: 2556518		Samplers (Signature): 		
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
001	LTD PRE NT BATCH 7 - 012307	11/23/07	1105	A	SOIL	X	2	FULL SUITE SOIL
002	LTD PRE NT BATCH 8 - 012307	11/23/07	1110	A	SOIL	X	2	FULL SUITE SOIL
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				

AES Work Order #: 070123021		CC Report To / Special Instructions/Remarks: POB's - RUSH - TODAY REST OF ANALYSIS - 24 HR TAT	
Turnaround Time Request: ☒ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) 		Received by: (Signature) 	Date/Time 1/23/07 12:20
Relinquished by: (Signature)		Received by: (Signature)	Date/Time
Relinquished by: (Signature)		Received for Laboratory by: 	Date/Time 1/23/07 12:52
TEMPERATURE Ambient or <u>Chilled</u> Notes: 5.0		PROPERLY PRESERVED <u>Y</u> N Notes:	
		RECEIVED WITHIN HOLDING TIMES <u>Y</u> N Notes:	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



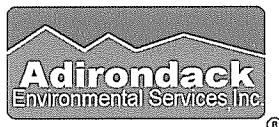
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 05, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070202043

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
Pretreatment Soil Batch 11

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 1 sample on 2/2/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

AIHA#: 100307

Tara Daniels
Laboratory Manager

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 11-020
Work Order: 070202043 **Collection Date:** 2/2/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Batch **Lab Sample ID:** 070202043-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A						Analyst: KF
(Prep: SW3545 - 2/2/2007)						
4,4'-DDD	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
4,4'-DDE	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
4,4'-DDT	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aldrin	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
alpha-BHC	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
alpha-Chlordane	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
beta-BHC	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Chlordane	< 9800	9800		µg/Kg-dry	50	2/2/2007 10:13:40 PM
delta-BHC	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Dieldrin	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Endosulfan I	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Endosulfan II	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Endosulfan sulfate	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Endrin	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Endrin aldehyde	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Endrin ketone	< 190	190		µg/Kg-dry	50	2/2/2007 10:13:40 PM
gamma-BHC	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
gamma-Chlordane	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Heptachlor	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Heptachlor epoxide	< 98	98		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Methoxychlor	< 980	980		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Toxaphene	< 9800	9800		µg/Kg-dry	50	2/2/2007 10:13:40 PM
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 2/2/2007)						
Aroclor 1016	< 1900	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aroclor 1221	< 1900	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aroclor 1232	< 1900	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aroclor 1242	< 1900	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aroclor 1248	4400	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aroclor 1254	4900	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
Aroclor 1260	< 1900	1900		µg/Kg-dry	50	2/2/2007 10:13:40 PM
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/5/2007)						
Aluminum	6850	23.0		µg/g-dry	1	2/5/2007 11:56:00 AM
Antimony	1.1	13.8	J	µg/g-dry	1	2/5/2007 11:56:00 AM
Arsenic	< 1.15	1.15		µg/g-dry	1	2/5/2007 11:56:00 AM

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 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 05-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 11-020
Work Order: 070202043 **Collection Date:** 2/2/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Batch **Lab Sample ID:** 070202043-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/5/2007)						
Barium	104	2.30		µg/g-dry	1	2/5/2007 11:56:00 AM
Beryllium	0.45	1.15	J	µg/g-dry	1	2/5/2007 11:56:00 AM
Cadmium	< 1.15	1.15		µg/g-dry	1	2/5/2007 11:56:00 AM
Calcium	34500	115		µg/g-dry	1	2/5/2007 11:56:00 AM
Chromium	20.3	1.15		µg/g-dry	1	2/5/2007 11:56:00 AM
Cobalt	17.9	11.5		µg/g-dry	1	2/5/2007 11:56:00 AM
Copper	38.9	1.15		µg/g-dry	1	2/5/2007 11:56:00 AM
Iron	17600	115		µg/g-dry	10	2/5/2007 3:01:00 PM
Lead	65.3	1.15		µg/g-dry	1	2/5/2007 11:56:00 AM
Magnesium	3380	115		µg/g-dry	1	2/5/2007 11:56:00 AM
Manganese	458	2.30		µg/g-dry	1	2/5/2007 11:56:00 AM
Nickel	< 11.5	11.5		µg/g-dry	1	2/5/2007 11:56:00 AM
Potassium	669	115		µg/g-dry	1	2/5/2007 11:56:00 AM
Selenium	< 1.15	1.15		µg/g-dry	1	2/5/2007 11:56:00 AM
Silver	< 4.60	4.60		µg/g-dry	1	2/5/2007 11:56:00 AM
Sodium	579	115		µg/g-dry	1	2/5/2007 11:56:00 AM
Thallium	0.85	2.30	J	µg/g-dry	1	2/5/2007 11:56:00 AM
Vanadium	15.1	11.5		µg/g-dry	1	2/5/2007 11:56:00 AM
Zinc	106	2.30		µg/g-dry	1	2/5/2007 11:56:00 AM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/5/2007)						
Mercury	0.063	0.230	JS	µg/g-dry	1	2/5/2007
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/2/2007)						
Phenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Bis(2-chloroethyl)ether	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2-Chlorophenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
1,3-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
1,4-Dichlorobenzene	100	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM
1,2-Dichlorobenzene	100	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM
2-Methylphenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Bis(2-chloroisopropyl)ether	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Methylphenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
N-Nitrosodi-n-propylamine	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Hexachloroethane	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Nitrobenzene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM

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Adirondack Environmental Services, Inc

Date: 05-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: LTTD PRE NT BATCH 11-020

Work Order: 070202043

Collection Date: 2/2/2007

Reference: Freeman's Bridge Road / Pretreatment Soil Batch

Lab Sample ID: 070202043-001

PO#:

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/2/2007)						
Isophorone	300	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM
2-Nitrophenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,4-Dimethylphenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Bis(2-chloroethoxy)methane	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,4-Dichlorophenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
1,2,4-Trichlorobenzene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Naphthalene	510	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Chloroaniline	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Hexachlorobutadiene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Chloro-3-methylphenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2-Methylnaphthalene	510	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Hexachlorocyclopentadiene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,4,6-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,4,5-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2-Chloronaphthalene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Dimethyl phthalate	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Acenaphthylene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,6-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Acenaphthene	640	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Dibenzofuran	680	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
2,4-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Diethyl phthalate	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Chlorophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Fluorene	1000	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
N-Nitrosodiphenylamine	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
4-Bromophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Pentachlorophenol	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Phenanthrene	2300	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Anthracene	1200	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Carbazole	200	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM
Di-n-butyl phthalate	80	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM

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Adirondack Environmental Services, Inc

Date: 05-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: LTTD PRE NT BATCH 11-020

Work Order: 070202043

Collection Date: 2/2/2007

Reference: Freeman's Bridge Road / Pretreatment Soil Batch

Lab Sample ID: 070202043-001

PO#:

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/2/2007)						
Fluoranthene	1800	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Pyrene	2300	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Butyl benzyl phthalate	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
3,3'-Dichlorobenzidine	< 760	760		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Benzo(a)anthracene	900	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Chrysene	840	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Bis(2-ethylhexyl)phthalate	200	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM
Di-n-octyl phthalate	< 380	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Benzo(b)fluoranthene	700	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Benzo(k)fluoranthene	800	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Benzo(a)pyrene	620	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Indeno(1,2,3-cd)pyrene	400	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
Dibenz(a,h)anthracene	100	380	J	µg/Kg-dry	1	2/5/2007 12:31:00 PM
Benzo(g,h,i)perylene	450	380		µg/Kg-dry	1	2/5/2007 12:31:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Bromomethane	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Chloroethane	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Acetone	42	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Chloroform	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
2-Butanone	6	11	J	µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Trichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM

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Adirondack Environmental Services, Inc

Date: 05-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 11-020
Work Order: 070202043 **Collection Date:** 2/2/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Batch **Lab Sample ID:** 070202043-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Benzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Bromoform	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Toluene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Ethylbenzene	5	6	J	µg/Kg-dry	1	2/5/2007 10:22:00 AM
Styrene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
m,p-Xylene	29	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
o-Xylene	8	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Methyl Cyclohexane	14	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 10:22:00 AM

PH SW9045B

Analyst: RC

pH	11.8	1.0		pH Units	1	2/3/2007
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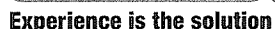
MOISURE CONTENT D2216

Analyst: KF

Percent Moisture	13.0	1.0		wt%	1	2/2/2007
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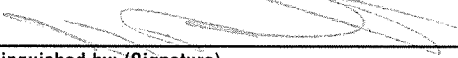
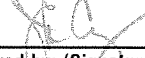
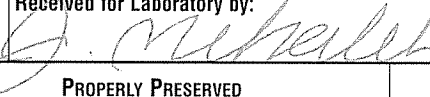
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CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

AES Work Order #: 070202043		CC Report To / Special Instructions/Remarks: 24 HR TAT	
Turnaround Time Request: ☒ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day		PLB'S BY MONDAY MORNING	
Relinquished by: (Signature) 		Received by: (Signature) 	
		Date/Time 2/2/07 4:10	
Relinquished by: (Signature)		Received by: (Signature)	
		Date/Time	
Relinquished by: (Signature)		Received for Laboratory by: 	
		Date/Time 2/2/07 4:41p	
TEMPERATURE Ambient or Chilled		PROPERLY PRESERVED Y N	
Notes: 9		Notes:	
		RECEIVED WITHIN HOLDING TIMES Y N	
Notes:		Notes:	

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



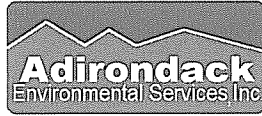
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 06, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070205016

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
Pretreatment Soil Batch 12

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 1 sample on 2/5/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709
AIHA#: 100307

Tara Daniels
Laboratory Manager

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 06-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: LTDD PRE NT BATCH 12-020
 Work Order: 070205016 Collection Date: 2/5/2007
 Reference: Freeman's Bridge Road / Pretreatment Soil Batch Lab Sample ID: 070205016-001
 PO#: Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ORGANOCHLORINE PESTICIDES SW8081A						Analyst: MG
(Prep: SW3545 - 2/5/2007)						
4,4'-DDD	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
4,4'-DDE	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
4,4'-DDT	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aldrin	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
alpha-BHC	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
alpha-Chlordane	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
beta-BHC	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Chlordane	< 3800	3800		µg/Kg-dry	20	2/5/2007 11:09:51 PM
delta-BHC	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Dieldrin	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Endosulfan I	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Endosulfan II	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Endosulfan sulfate	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Endrin	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Endrin aldehyde	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Endrin ketone	< 74	74		µg/Kg-dry	20	2/5/2007 11:09:51 PM
gamma-BHC	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
gamma-Chlordane	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Heptachlor	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Heptachlor epoxide	< 38	38		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Methoxychlor	< 380	380		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Toxaphene	< 3800	3800		µg/Kg-dry	20	2/5/2007 11:09:51 PM
POLYCHLORINATED BIPHENYLS SW8082						Analyst: MG
(Prep: SW3545 - 2/5/2007)						
Aroclor 1016	< 740	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aroclor 1221	< 740	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aroclor 1232	< 740	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aroclor 1242	< 740	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aroclor 1248	2500	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aroclor 1254	1500	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
Aroclor 1260	< 740	740		µg/Kg-dry	20	2/5/2007 11:09:51 PM
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/5/2007)						
Aluminum	4550	22.5		µg/g-dry	1	2/5/2007 3:10:00 PM
Antimony	0.42	13.5	J	µg/g-dry	1	2/5/2007 3:10:00 PM
Arsenic	0.78	1.13	J	µg/g-dry	1	2/5/2007 3:10:00 PM

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 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 06-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 12-020
Work Order: 070205016 **Collection Date:** 2/5/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Batch **Lab Sample ID:** 070205016-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/5/2007)						
Barium	45.9	2.25		µg/g-dry	1	2/5/2007 3:10:00 PM
Beryllium	0.36	1.13	J	µg/g-dry	1	2/5/2007 3:10:00 PM
Cadmium	< 1.13	1.13		µg/g-dry	1	2/5/2007 3:10:00 PM
Calcium	11600	113		µg/g-dry	1	2/5/2007 3:10:00 PM
Chromium	9.04	1.13		µg/g-dry	1	2/5/2007 3:10:00 PM
Cobalt	8.4	11.3	J	µg/g-dry	1	2/5/2007 3:10:00 PM
Copper	18.6	1.13		µg/g-dry	1	2/5/2007 3:10:00 PM
Iron	9380	11.3		µg/g-dry	1	2/5/2007 3:10:00 PM
Lead	60.3	1.13		µg/g-dry	1	2/5/2007 3:10:00 PM
Magnesium	3340	113		µg/g-dry	1	2/5/2007 3:10:00 PM
Manganese	206	2.25		µg/g-dry	1	2/5/2007 3:10:00 PM
Nickel	0.40	11.3	J	µg/g-dry	1	2/5/2007 3:10:00 PM
Potassium	429	113		µg/g-dry	1	2/5/2007 3:10:00 PM
Selenium	< 1.13	1.13		µg/g-dry	1	2/5/2007 3:10:00 PM
Silver	< 4.51	4.51		µg/g-dry	1	2/5/2007 3:10:00 PM
Sodium	526	113		µg/g-dry	1	2/5/2007 3:10:00 PM
Thallium	< 2.25	2.25		µg/g-dry	1	2/5/2007 3:10:00 PM
Vanadium	7.8	11.3	J	µg/g-dry	1	2/5/2007 3:10:00 PM
Zinc	86.1	2.25		µg/g-dry	1	2/5/2007 3:10:00 PM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/5/2007)						
Mercury	0.598	0.225	S	µg/g-dry	1	2/6/2007
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/5/2007)						
Phenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Bis(2-chloroethyl)ether	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2-Chlorophenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
1,3-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
1,4-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
1,2-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2-Methylphenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Bis(2-chloroisopropyl)ether	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Methylphenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
N-Nitrosodi-n-propylamine	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Hexachloroethane	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Nitrobenzene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM

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Adirondack Environmental Services, Inc

Date: 06-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: LTTD PRE NT BATCH 12-020

Work Order: 070205016

Collection Date: 2/5/2007

Reference: Freeman's Bridge Road / Pretreatment Soil Batch

Lab Sample ID: 070205016-001

PO#:

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/5/2007)						
Isophorone	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2-Nitrophenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,4-Dimethylphenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Bis(2-chloroethoxy)methane	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,4-Dichlorophenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
1,2,4-Trichlorobenzene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Naphthalene	200	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Chloroaniline	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Hexachlorobutadiene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Chloro-3-methylphenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2-Methylnaphthalene	100	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
Hexachlorocyclopentadiene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,4,6-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,4,5-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2-Chloronaphthalene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Dimethyl phthalate	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Acenaphthylene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,6-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Acenaphthene	100	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Dibenzofuran	100	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
2,4-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Diethyl phthalate	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Chlorophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Fluorene	200	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
N-Nitrosodiphenylamine	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
4-Bromophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Pentachlorophenol	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Phenanthrene	760	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Anthracene	400	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Carbazole	100	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
Di-n-butyl phthalate	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM

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Adirondack Environmental Services, Inc

Date: 06-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: LTTD PRE NT BATCH 12-020
 Work Order: 070205016 Collection Date: 2/5/2007
 Reference: Freeman's Bridge Road / Pretreatment Soil Batch Lab Sample ID: 070205016-001
 PO#: Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/5/2007)						
Fluoranthene	870	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Pyrene	1000	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Butyl benzyl phthalate	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
3,3'-Dichlorobenzidine	< 740	740		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Benz(a)anthracene	540	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Chrysene	480	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Bis(2-ethylhexyl)phthalate	200	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
Di-n-octyl phthalate	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Benzo(b)fluoranthene	700	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Benzo(k)fluoranthene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Benzo(a)pyrene	420	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Indeno(1,2,3-cd)pyrene	200	370	J	µg/Kg-dry	1	2/6/2007 12:46:00 PM
Dibenz(a,h)anthracene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
Benzo(g,h,i)perylene	< 370	370		µg/Kg-dry	1	2/6/2007 12:46:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Acetone	9	11	J	µg/Kg-dry	1	2/5/2007 2:36:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM

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Adirondack Environmental Services, Inc

Date: 06-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** LTTD PRE NT BATCH 12-020
Work Order: 070205016 **Collection Date:** 2/5/2007
Reference: Freeman's Bridge Road / Pretreatment Soil Batch **Lab Sample ID:** 070205016-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/5/2007 2:36:00 PM

PH SW9045B

Analyst: LS

pH	10.9	1.0		pH Units	1	2/6/2007
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MOISURE CONTENT D2216

Analyst: RC

Percent Moisture	11.3	1.0		wt%	1	2/5/2007
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range



314 North Pearl Street
Albany, New York 12207
518-434-4546/434-0891 FAX

CHAIN OF CUSTODY RECORD

Experience is the solution

A full service analytical research laboratory offering solutions to environmental concerns

Client Name: DA COLLINS		Address:						
Send Report To: J BONSIAW		Project Name (Location): FBR		Samplers: (Names) J BONSIAW				
Client Phone No:		Client Fax No:		PO Number: 2002516		Samplers: (Signature) [Signature]		
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=a.m. P=p.m.	Sample Type			Number of Cont's	Analysis Required
				Matrix	Comp	Grab		
001	PRE NT BATCH 12-02507	2/5/07	1300	A				Env SUITE
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				

AES Work Order #: 070205016		CC Report To / Special Instructions/Remarks: 24 HR TAT	
Turnaround Time Request: ☒ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day			
Relinquished by: (Signature) [Signature]		Received by: (Signature) P. Mihalich	Date/Time 2/5/07 1:06pm
Relinquished by: (Signature)		Received by: (Signature)	Date/Time
Relinquished by: (Signature)		Received for Laboratory by: J. Mihalich	Date/Time 2/5/07 1:42pm
TEMPERATURE Ambient or Chilled Notes: 3		PROPERLY PRESERVED Y N Notes:	RECEIVED WITHIN HOLDING TIMES Y N Notes:

WHITE - Lab Copy

YELLOW - Sampler Copy

PINK - Generator Copy

Adirondack Environmental Services, Inc.



Experience is the solution

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TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 13, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070209004

TEL: (518) 664-9855

PO#: 2006516

FAX: (518) 664-0925

RE: Freeman's Bridge Road
ESMI PoP Feed & Prod 1A

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 4 samples on 2/9/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

AIHA#: 100307

Tara Daniels
Laboratory Manager

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

T - Tentatively Identified Compound-Estimated Conc.

X - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 2/9/2007)						
Aroclor 1016	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
Aroclor 1221	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
Aroclor 1232	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
Aroclor 1242	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
Aroclor 1248	12000	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
Aroclor 1254	10000	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
Aroclor 1260	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
PCB, Total	22000	9300		µg/Kg-dry	250	2/9/2007 9:45:58 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	750	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Bis(2-chloroethyl)ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2-Chlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
1,3-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
1,4-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
1,2-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2-Methylphenol	820	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Bis(2-chloroisopropyl)ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Methylphenol	2100	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
N-Nitrosodi-n-propylamine	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Hexachloroethane	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Nitrobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Isophorone	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2-Nitrophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,4-Dimethylphenol	2200	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Bis(2-chloroethoxy)methane	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,4-Dichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
1,2,4-Trichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Naphthalene	2900	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Chloroaniline	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Hexachlorobutadiene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Chloro-3-methylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2-Methylnaphthalene	1300	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Hexachlorocyclopentadiene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,4,6-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,4,5-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2-Chloronaphthalene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

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 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Dimethyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Acenaphthylene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,6-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Acenaphthene	3200	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Dibenzofuran	2400	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
2,4-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Diethyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Chlorophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Fluorene	4100	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
N-Nitrosodiphenylamine	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
4-Bromophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Pentachlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Phenanthrene	20000	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Anthracene	12000	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Carbazole	3000	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Di-n-butyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Fluoranthene	19000	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Pyrene	17000	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Butyl benzyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
3,3'-Dichlorobenzidine	< 750	750		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Benz(a)anthracene	9200	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Chrysene	8100	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Bis(2-ethylhexyl)phthalate	810	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Di-n-octyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Benzo(b)fluoranthene	13000	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Benzo(k)fluoranthene	< 380	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Benzo(a)pyrene	9300	380	E	µg/Kg-dry	1	2/12/2007 5:47:00 PM
Indeno(1,2,3-cd)pyrene	2800	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Dibenz(a,h)anthracene	420	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM
Benzo(g,h,i)perylene	2600	380		µg/Kg-dry	1	2/12/2007 5:47:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 T - Tentatively Identified Compound-Estimated Conc.
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Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Acetone	33	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Ethylbenzene	6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
m,p-Xylene	27	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
o-Xylene	8	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:26:00 PM
PH SW9045B						Analyst: LS
pH	12.3	1.0		pH Units	1	2/9/2007
MOISURE CONTENT D2216						Analyst: RC
Percent Moisture	12.2	1.0		wt%	1	2/9/2007

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A Dup
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 2/9/2007)						
Aroclor 1016	< 7900	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
Aroclor 1221	< 7900	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
Aroclor 1232	< 7900	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
Aroclor 1242	< 7900	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
Aroclor 1248	14000	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
Aroclor 1254	< 7900	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
Aroclor 1260	< 7900	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
PCB, Total	14000	7900		µg/Kg-dry	200	2/9/2007 10:15:12 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Bis(2-chloroethyl)ether	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2-Chlorophenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
1,3-Dichlorobenzene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
1,4-Dichlorobenzene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
1,2-Dichlorobenzene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2-Methylphenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Bis(2-chloroisopropyl)ether	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Methylphenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
N-Nitrosodi-n-propylamine	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Hexachloroethane	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Nitrobenzene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Isophorone	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2-Nitrophenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,4-Dimethylphenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Bis(2-chloroethoxy)methane	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,4-Dichlorophenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
1,2,4-Trichlorobenzene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Naphthalene	5400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Chloroaniline	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Hexachlorobutadiene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Chloro-3-methylphenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2-Methylnaphthalene	2500	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Hexachlorocyclopentadiene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,4,6-Trichlorophenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,4,5-Trichlorophenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2-Chloronaphthalene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A Dup
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
2-Nitroaniline	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Dimethyl phthalate	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Acenaphthylene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,6-Dinitrotoluene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
3-Nitroaniline	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Acenaphthene	5900	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,4-Dinitrophenol	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Nitrophenol	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Dibenzofuran	4800	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
2,4-Dinitrotoluene	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Diethyl phthalate	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Chlorophenyl phenyl ether	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Fluorene	7700	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Nitroaniline	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4,6-Dinitro-2-methylphenol	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
N-Nitrosodiphenylamine	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
4-Bromophenyl phenyl ether	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Hexachlorobenzene	< 2000	2000		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Pentachlorophenol	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Phenanthrene	36000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Anthracene	19000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Carbazole	6200	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Di-n-butyl phthalate	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Fluoranthene	28000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Pyrene	29000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Butyl benzyl phthalate	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
3,3'-Dichlorobenzidine	< 790	790		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Benzo(a)anthracene	17000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Chrysene	14000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Bis(2-ethylhexyl)phthalate	1100	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Di-n-octyl phthalate	< 400	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Benzo(b)fluoranthene	19000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Benzo(k)fluoranthene	2500	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Benzo(a)pyrene	14000	400	E	µg/Kg-dry	1	2/12/2007 6:15:00 PM
Indeno(1,2,3-cd)pyrene	3700	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Dibenz(a,h)anthracene	2200	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM
Benzo(g,h,i)perylene	3700	400		µg/Kg-dry	1	2/12/2007 6:15:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 1A Dup
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Bromomethane	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Vinyl chloride	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Chloroethane	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Acetone	37	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
2-Butanone	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
4-Methyl-2-pentanone	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
2-Hexanone	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Ethylbenzene	8	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
m,p-Xylene	34	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
o-Xylene	10	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment**Client Sample ID:** ESMI PoP-Feed 1A Dup**Work Order:** 070209004**Collection Date:** 2/8/2007**Reference:** Freeman's Bridge Road / ESMI PoP Feed & Prod**Lab Sample ID:** 070209004-002**PO#:** 2006516**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Cyclohexane	< 12	12		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 2:54:00 PM
PH SW9045B						Analyst: LS
pH	12.3	1.0		pH Units	1	2/9/2007
MOISURE CONTENT D2216						Analyst: RC
Percent Moisture	16.9	1.0		wt%	1	2/9/2007

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Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: ESMI PoP-Prod 1A
 Work Order: 070209004 Collection Date: 2/8/2007
 Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod Lab Sample ID: 070209004-003
 PO#: 2006516 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8082 CONGENERS SW8082						Analyst: KF
(Prep: CLP4_PEST - 2/9/2007)						
#101-2,2',4,5,5'-Pentachlorobipheny	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#110-2,3,3',4',6-Pentachlorobipheny	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#1-2-Chlorobiphenyl	< 11.1	11.1		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#138-2,2',3,4,4',5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#141-2,2',3,4,5,5'-Hexachlorobiphen	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#151-2,2',3,5,5',6-Hexachlorobiphen	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#153-2,2',4,4',5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#170-2,2',3,3',4,4',5-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#180-2,2',3,4,4',5,5'-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#18-2,2',5-Trichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#183-2,2',3,4,4',5,6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#187-2,2',3,4,5,5',6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#206-2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#31-2,4',5-Trichlorobiphenyl	4.2	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#44-2,2',3,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#5-2,3-Dichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#52-2,2',5,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#66-2,3',4,4'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
#87-2,2',3,4,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:09:21 PM
PCB, Total	9.5	2.8	J	µg/Kg-dry	1	2/9/2007 5:09:21 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Bis(2-chloroethyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2-Chlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
1,3-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
1,4-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
1,2-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Bis(2-chloroisopropyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
N-Nitrosodi-n-propylamine	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-003
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Hexachloroethane	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Nitrobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Isophorone	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2-Nitrophenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,4-Dimethylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Bis(2-chloroethoxy)methane	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,4-Dichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
1,2,4-Trichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Naphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Chloroaniline	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Hexachlorobutadiene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Chloro-3-methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2-Methylnaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Hexachlorocyclopentadiene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,4,6-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,4,5-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2-Chloronaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2-Nitroaniline	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Dimethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Acenaphthylene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,6-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
3-Nitroaniline	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Acenaphthene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,4-Dinitrophenol	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Nitrophenol	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Dibenzofuran	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
2,4-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Diethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Chlorophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Fluorene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Nitroaniline	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4,6-Dinitro-2-methylphenol	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
N-Nitrosodiphenylamine	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
4-Bromophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Hexachlorobenzene	< 1800	1800		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Pentachlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Phenanthrene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-003
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Carbazole	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Di-n-butyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Butyl benzyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
3,3'-Dichlorobenzidine	< 730	730		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Benz(a)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Chrysene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Bis(2-ethylhexyl)phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Di-n-octyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Benzo(b)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Benzo(k)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Benzo(a)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Indeno(1,2,3-cd)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Dibenz(a,h)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
Benzo(g,h,i)perylene	< 370	370		µg/Kg-dry	1	2/12/2007 6:43:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Acetone	44	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 1A
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-003
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:22:00 PM

PH SW9045B

Analyst: LS

pH	12.1	1.0	pH Units	1	2/9/2007
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MOISURE CONTENT D2216

Analyst: RC

Percent Moisture	9.6	1.0	wt%	1	2/9/2007
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: ESMI PoP-Prod 1A Dup
 Work Order: 070209004 Collection Date: 2/8/2007
 Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod Lab Sample ID: 070209004-004
 PO#: 2006516 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8082 CONGENERS SW8082						Analyst: KF
(Prep: CLP4_PEST - 2/9/2007)						
#101-2,2',4,5,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#110-2,3,3',4',6-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#1-2-Chlorobiphenyl	< 11.2	11.2		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#138-2,2',3,4,4',5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#141-2,2',3,4,5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#151-2,2',3,5,5',6-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#153-2,2',4,4',5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#170-2,2',3,3',4,4',5-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#180-2,2',3,4,4',5,5'-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#18-2,2',5-Trichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#183-2,2',3,4,4',5,6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#187-2,2',3,4',5,5',6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#206-2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#31-2,4',5-Trichlorobiphenyl	4.4	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#44-2,2',3,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#5-2,3-Dichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#52-2,2',5,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#66-2,3',4,4'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
#87-2,2',3,4,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 5:38:28 PM
PCB, Total	12.3	2.8	J	µg/Kg-dry	1	2/9/2007 5:38:28 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Bis(2-chloroethyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2-Chlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
1,3-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
1,4-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
1,2-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Bis(2-chloroisopropyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
N-Nitrosodi-n-propylamine	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: ESMI PoP-Prod 1A Dup

Work Order: 070209004

Collection Date: 2/8/2007

Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod

Lab Sample ID: 070209004-004

PO#: 2006516

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Hexachloroethane	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Nitrobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Isophorone	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2-Nitrophenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,4-Dimethylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Bis(2-chloroethoxy)methane	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,4-Dichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
1,2,4-Trichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Naphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Chloroaniline	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Hexachlorobutadiene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Chloro-3-methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2-Methylnaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Hexachlorocyclopentadiene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,4,6-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,4,5-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2-Chloronaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Dimethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Acenaphthylene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,6-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Acenaphthene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Dibenzofuran	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
2,4-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Diethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Chlorophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Fluorene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
N-Nitrosodiphenylamine	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
4-Bromophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Pentachlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Phenanthrene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 1A Dup
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-004
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Carbazole	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Di-n-butyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Butyl benzyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
3,3'-Dichlorobenzidine	< 740	740		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Benz(a)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Chrysene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Bis(2-ethylhexyl)phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Di-n-octyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Benzo(b)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Benzo(k)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Benzo(a)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Indeno(1,2,3-cd)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Dibenz(a,h)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
Benzo(g,h,i)perylene	< 370	370		µg/Kg-dry	1	2/12/2007 7:10:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Acetone	45	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 1A Dup
Work Order: 070209004 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209004-004
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B

Analyst: ML

Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 3:49:00 PM

PH SW9045B

Analyst: LS

pH	12.1	1.0	pH Units	1	2/9/2007
----	------	-----	----------	---	----------

MOISURE CONTENT D2216

Analyst: RC

Percent Moisture	10.5	1.0	wt%	1	2/9/2007
------------------	------	-----	-----	---	----------

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

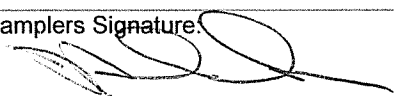
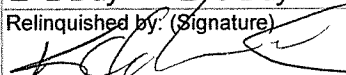
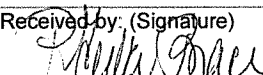
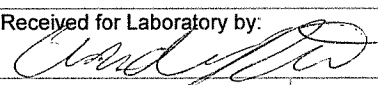


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A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

Client Name: DA Collins		Address: 34 Freemans Bridge Rd						
Send Report to: J Bradshaw		Project Name (Location): FBR			Samplers Name: J Bradshaw			
Client Phone #: 361-1247		Client PO #: 2006516			Samplers Signature: 			
Client Fax #: 377-4147								
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type			Number of Cont's	Analysis
				Matrix	C	G		
001	ESMI PoP-Feed 1A	2/8/2007	1540	A	soil	X	2	VOC,SVOC,PCB
002	ESMI PoP-Feed 1A DUP	2/8/2007	1540	P	soil	X	2	SVOC
003	ESMI PoP-Prod 1A	2/8/2007	1545	A	soil	X	2	VOC,SVOC,PCB
004	ESMI PoP-Prod 1A DUP	2/8/2007	1545	P	soil	X	2	SVOC
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
AES Work Order #: 070209 004		Special Instructions/Remarks: 48 Hr. TAT samples are PCB Congeners Analysis is per Full Suite guidelines Prod						
Turnaround Time Requested: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day								
Relinquished by: (Signature) 		Date 2/9/07	Time 0800	Received by: (Signature) 		Date 2/9/07	Time 8:00am	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Relinquished by: (Signature)		Date	Time	Received for Laboratory by: 		Date 2/9	Time 8:37	
Sample Temperature Ambient ☐ Chilled ☒			Properly Preserved ☒ Y ☐ N			Received Within Holding Times ☒ Y ☐ N		
Notes: 5			Notes:			Notes:		



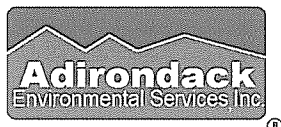
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TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



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(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 15, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070209006

TEL: (518) 664-9855

PO#: 2006516

FAX: (518) 664-0925

RE: Freeman's Bridge Road
Field Blank

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 1 sample on 2/9/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentitively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: ESMI POP EB1-020607

Work Order: 070209006

Collection Date: 2/6/2007

Reference: Freeman's Bridge Road / Field Blank

Lab Sample ID: 070209006-001

PO#: 2006516

Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3510/E625 - 2/13/2007)						
Phenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Bis(2-chloroethyl)ether	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2-Chlorophenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
1,3-Dichlorobenzene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
1,4-Dichlorobenzene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
1,2-Dichlorobenzene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2-Methylphenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Bis(2-chloroisopropyl)ether	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
4-Methylphenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
N-Nitrosodi-n-propylamine	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Hexachloroethane	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Nitrobenzene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Isophorone	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2-Nitrophenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,4-Dimethylphenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Bis(2-chloroethoxy)methane	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,4-Dichlorophenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
1,2,4-Trichlorobenzene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Naphthalene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
4-Chloroaniline	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Hexachlorobutadiene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
4-Chloro-3-methylphenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2-Methylnaphthalene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Hexachlorocyclopentadiene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,4,6-Trichlorophenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,4,5-Trichlorophenol	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2-Chloronaphthalene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2-Nitroaniline	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
Dimethyl phthalate	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Acenaphthylene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,6-Dinitrotoluene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
3-Nitroaniline	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
Acenaphthene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,4-Dinitrophenol	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
4-Nitrophenol	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
Dibenzofuran	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
2,4-Dinitrotoluene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Diethyl phthalate	< 5	5		µg/L	1	2/15/2007 2:33:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

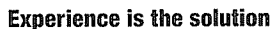
CLIENT: D.A.Collins Environment
Work Order: 070209006
Reference: Freeman's Bridge Road / Field Blank
PO#: 2006516

Client Sample ID: ESMI POP EB1-020607
Collection Date: 2/6/2007
Lab Sample ID: 070209006-001
Matrix: WATER

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3510/E625 - 2/13/2007)						
4-Chlorophenyl phenyl ether	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Fluorene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
4-Nitroaniline	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
4,6-Dinitro-2-methylphenol	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
N-Nitrosodiphenylamine	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
4-Bromophenyl phenyl ether	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Hexachlorobenzene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Pentachlorophenol	< 25	25		µg/L	1	2/15/2007 2:33:00 PM
Phenanthrene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Anthracene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Carbazole	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Di-n-butyl phthalate	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Fluoranthene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Pyrene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Butyl benzyl phthalate	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
3,3'-Dichlorobenzidine	< 10	10		µg/L	1	2/15/2007 2:33:00 PM
Benz(a)anthracene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Chrysene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Bis(2-ethylhexyl)phthalate	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Di-n-octyl phthalate	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Benzo(b)fluoranthene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Benzo(k)fluoranthene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Benzo(a)pyrene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Indeno(1,2,3-cd)pyrene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Dibenz(a,h)anthracene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM
Benzo(g,h,i)perylene	< 5	5		µg/L	1	2/15/2007 2:33:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
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CHAIN OF CUSTODY RECORD

A full service analytical research laboratory offering solutions to environmental concerns

AES Work Order #: <u>070209006</u>		CC Report To / Special Instructions/Remarks:	
Turnaround Time Request: ☐ 1 Day ☐ 3 Day ☒ Normal ☐ 2 Day ☐ 5 Day		etiers <u>Rapial</u>	
Relinquished by: (Signature) <u>[Signature]</u>		Received by: (Signature) <u>[Signature]</u>	
Relinquished by: (Signature)		Received by: (Signature)	
Relinquished by: (Signature)		Received for Laboratory by: <u>[Signature]</u>	
Date/Time: <u>2/9/07 8:00 AM</u>		Date/Time: <u>2/9 8:37</u>	
TEMPERATURE Ambient or <u>Chilled</u>		PROPERLY PRESERVED <u>Y</u> N	
RECEIVED WITHIN HOLDING TIMES <u>Y</u> N		Notes: _____	

PINK - Generator Copy

Adirondack Environmental Services, Inc.



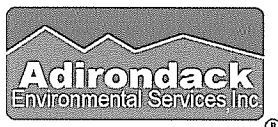
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February 13, 2007

Jay Bradshaw
D.A. Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070212003

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
ESMI PoP Feed & Prod 1B

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 2/12/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: ESMI PoP-Feed 1B
 Work Order: 070212003 Collection Date: 2/9/2007
 Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod Lab Sample ID: 070212003-001
 PO#: Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/12/2007)						
Aluminum	7910	23.0		µg/g-dry	1	2/12/2007 9:56:00 AM
Antimony	< 13.8	13.8		µg/g-dry	1	2/12/2007 9:56:00 AM
Arsenic	< 1.15	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Barium	93.8	2.30		µg/g-dry	1	2/12/2007 9:56:00 AM
Beryllium	< 1.15	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Cadmium	< 1.15	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Calcium	33800	115		µg/g-dry	1	2/12/2007 9:56:00 AM
Chromium	31.7	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Cobalt	16.3	11.5		µg/g-dry	1	2/12/2007 9:56:00 AM
Copper	36.5	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Iron	16100	11.5		µg/g-dry	1	2/12/2007 9:56:00 AM
Lead	141	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Magnesium	4500	115		µg/g-dry	1	2/12/2007 9:56:00 AM
Manganese	283	2.30		µg/g-dry	1	2/12/2007 9:56:00 AM
Nickel	< 11.5	11.5		µg/g-dry	1	2/12/2007 9:56:00 AM
Potassium	1090	115		µg/g-dry	1	2/12/2007 9:56:00 AM
Selenium	< 1.15	1.15		µg/g-dry	1	2/12/2007 9:56:00 AM
Silver	< 4.60	4.60		µg/g-dry	1	2/12/2007 9:56:00 AM
Sodium	519	115		µg/g-dry	1	2/12/2007 9:56:00 AM
Thallium	< 2.30	2.30		µg/g-dry	1	2/12/2007 9:56:00 AM
Vanadium	< 11.5	11.5		µg/g-dry	1	2/12/2007 9:56:00 AM
Zinc	122	2.30		µg/g-dry	1	2/12/2007 9:56:00 AM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/12/2007)						
Mercury	0.374	0.230		µg/g-dry	1	2/12/2007
ASH ASTM D482						Analyst: PL
Ash	89.7	0.012		%-dry	1	2/12/2007
PH SW9045B						Analyst: LS
pH	12.3	1.0		pH Units	1	2/13/2007
MOISURE CONTENT D2216						Analyst: PL
Percent Moisture	13.0	1.0		wt%	1	2/12/2007

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc**Date:** 13-Feb-07

CLIENT:	D.A.Collins Environment	Client Sample ID:	ESMI PoP-Feed 1B
Work Order:	070212003	Collection Date:	2/9/2007
Reference:	Freeman's Bridge Road / ESMI PoP Feed & Prod	Lab Sample ID:	070212003-001
PO#:		Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

TOTAL SOLIDS	ASTM D2216					Analyst: PL
Solids, Total	87.0	1.0		%	1	2/12/2007

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	T - Tentitively Identified Compound-Estimated Conc.
	X - Value exceeds Maximum Contaminant Level	E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 1B
Work Order: 070212003 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070212003-002
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/12/2007)						
Aluminum	8490	22.3		µg/g-dry	1	2/12/2007 10:00:00 AM
Antimony	< 13.4	13.4		µg/g-dry	1	2/12/2007 10:00:00 AM
Arsenic	< 1.11	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Barium	117	2.23		µg/g-dry	1	2/12/2007 10:00:00 AM
Beryllium	< 1.11	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Cadmium	< 1.11	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Calcium	39800	111		µg/g-dry	1	2/12/2007 10:00:00 AM
Chromium	34.3	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Cobalt	18.7	11.1		µg/g-dry	1	2/12/2007 10:00:00 AM
Copper	46.3	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Iron	17200	11.1		µg/g-dry	1	2/12/2007 10:00:00 AM
Lead	189	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Magnesium	5640	111		µg/g-dry	1	2/12/2007 10:00:00 AM
Manganese	291	2.23		µg/g-dry	1	2/12/2007 10:00:00 AM
Nickel	< 11.1	11.1		µg/g-dry	1	2/12/2007 10:00:00 AM
Potassium	1580	111		µg/g-dry	1	2/12/2007 10:00:00 AM
Selenium	< 1.11	1.11		µg/g-dry	1	2/12/2007 10:00:00 AM
Silver	< 4.45	4.45		µg/g-dry	1	2/12/2007 10:00:00 AM
Sodium	656	111		µg/g-dry	1	2/12/2007 10:00:00 AM
Thallium	< 2.23	2.23		µg/g-dry	1	2/12/2007 10:00:00 AM
Vanadium	14.2	11.1		µg/g-dry	1	2/12/2007 10:00:00 AM
Zinc	136	2.23		µg/g-dry	1	2/12/2007 10:00:00 AM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/12/2007)						
Mercury	< 0.223	0.223		µg/g-dry	1	2/12/2007
ASH ASTM D482						Analyst: PL
Ash	91.2	0.011		%-dry	1	2/12/2007
PH SW9045B						Analyst: LS
pH	12.2	1.0		pH Units	1	2/13/2007
MOISURE CONTENT D2216						Analyst: PL
Percent Moisture	10.2	1.0		wt%	1	2/12/2007

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment**Client Sample ID:** ESMI PoP-Prod 1B**Work Order:** 070212003**Collection Date:** 2/9/2007**Reference:** Freeman's Bridge Road / ESMI PoP Feed & Prod**Lab Sample ID:** 070212003-002**PO#:****Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL SOLIDS ASTM D2216						Analyst: PL
Solids, Total	89.8	1.0		%	1	2/12/2007

Qualifiers:

ND - Not Detected at the Reporting Limit

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J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

T - Tentitively Identified Compound-Estimated Conc.

X - Value exceeds Maximum Contaminant Level

E - Value above quantitation range

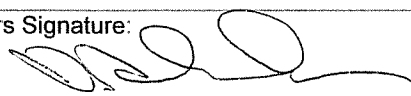
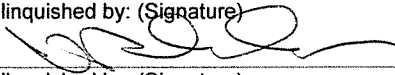
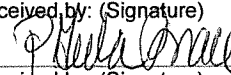
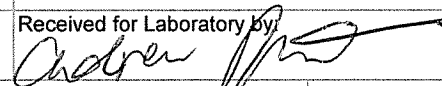


EXPERIENCE IS THE SOLUTION

314 North Pearl Street ♦ Albany, New York 12207 ♦ (518) 434-4546 ♦ Fax: (518) 434-0891

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

Client Name: DA Collins		Address: 34 Freemans Bridge Rd						
Send Report to: J Bradshaw		Project Name (Location): FBR			Samplers Name: J Bradshaw			
Client Phone #: 361-1247		Client PO #: 2006516			Samplers Signature: 			
Client Fax #: 377-4147								
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type			Number of Cont's	Analysis
				Matrix	C	G		
001	ESMI PoP-Feed 1B	2/9/2007	1515	A	soil	X	1	Metals, pH, %solids, Ash
002	ESMI PoP-Prod 1B	2/9/2007	1520	A	soil	X	1	Metals, pH, %solids, Ash
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
				A				
				P				
AES Work Order #: 070212003				Special Instructions/Remarks: 24 Hr. TAT				
Turnaround Time Requested: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day								
Relinquished by: (Signature) 		Date 2/12/07	Time 0805	Received by: (Signature) 		Date 2/12/07	Time 8:05	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Relinquished by: (Signature)		Date	Time	Received for Laboratory by: 		Date 2/12	Time 8:54	
Sample Temperature Ambient ~ <u>Chilled</u>			Properly Preserved <u>(Y)</u> N			Received Within Holding Times <u>(Y)</u> N		
Notes: <u>16</u>			Notes:			Notes:		



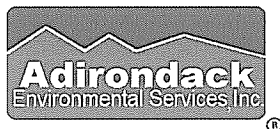
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 13, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070209003

TEL: (518) 664-9855

PO#: 2006516

FAX: (518) 664-0925

RE: Freeman's Bridge Road
ESMI PoP Feed & Prod 2A

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 2/9/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709

AIHA#: 100307

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

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E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: ESMI PoP-Feed 2A

Work Order: 070209003

Collection Date: 2/8/2007

Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod

Lab Sample ID: 070209003-001

PO#: 2006516

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 2/9/2007)						
Aroclor 1016	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
Aroclor 1221	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
Aroclor 1232	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
Aroclor 1242	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
Aroclor 1248	11000	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
Aroclor 1254	14000	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
Aroclor 1260	< 9300	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
PCB, Total	25000	9300		µg/Kg-dry	250	2/9/2007 9:16:53 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	810	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Bis(2-chloroethyl)ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2-Chlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
1,3-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
1,4-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
1,2-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2-Methylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Bis(2-chloroisopropyl)ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Methylphenol	580	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
N-Nitrosodi-n-propylamine	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Hexachloroethane	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Nitrobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Isophorone	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2-Nitrophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,4-Dimethylphenol	820	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Bis(2-chloroethoxy)methane	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,4-Dichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
1,2,4-Trichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Naphthalene	2100	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Chloroaniline	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Hexachlorobutadiene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Chloro-3-methylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2-Methylnaphthalene	700	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Hexachlorocyclopentadiene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,4,6-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,4,5-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2-Chloronaphthalene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 2A
Work Order: 070209003 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209003-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Dimethyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Acenaphthylene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,6-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Acenaphthene	1700	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Dibenzofuran	1500	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
2,4-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Diethyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Chlorophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Fluorene	2600	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
N-Nitrosodiphenylamine	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
4-Bromophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Pentachlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Phenanthrene	12000	380	E	µg/Kg-dry	1	2/12/2007 5:19:00 PM
Anthracene	6900	380	E	µg/Kg-dry	1	2/12/2007 5:19:00 PM
Carbazole	1600	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Di-n-butyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Fluoranthene	10000	380	E	µg/Kg-dry	1	2/12/2007 5:19:00 PM
Pyrene	10000	380	E	µg/Kg-dry	1	2/12/2007 5:19:00 PM
Butyl benzyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
3,3'-Dichlorobenzidine	< 750	750		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Benz(a)anthracene	4700	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Chrysene	4300	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Bis(2-ethylhexyl)phthalate	400	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Di-n-octyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Benzo(b)fluoranthene	4600	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Benzo(k)fluoranthene	< 380	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Benzo(a)pyrene	4200	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Indeno(1,2,3-cd)pyrene	1200	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Dibenz(a,h)anthracene	450	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM
Benzo(g,h,i)perylene	1200	380		µg/Kg-dry	1	2/12/2007 5:19:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 2A
Work Order: 070209003 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209003-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Acetone	33	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
m,p-Xylene	22	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
o-Xylene	7	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 2A
Work Order: 070209003 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209003-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:31:00 PM
PH SW9045B						Analyst: LS
pH	12.2	1.0		pH Units	1	2/9/2007
MOISURE CONTENT D2216						Analyst: RC
Percent Moisture	12.0	1.0		wt%	1	2/9/2007

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank T - Tentatively Identified Compound-Estimated Conc.
X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: ESMI PoP-Prod 2A
 Work Order: 070209003 Collection Date: 2/8/2007
 Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod Lab Sample ID: 070209003-002
 PO#: 2006516 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8082 CONGENERS SW8082						Analyst: KF
(Prep: CLP4_PEST - 2/9/2007)						
#101-2,2',4,5,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#110-2,3,3',4',6-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#1-2-Chlorobiphenyl	< 11.2	11.2		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#138-2,2',3,4,4',5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#141-2,2',3,4,5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#151-2,2',3,5,5',6-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#153-2,2',4,4',5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#170-2,2',3,3',4,4',5-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#180-2,2',3,4,4',5,5'-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#18-2,2',5-Trichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#183-2,2',3,4,4',5,6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#187-2,2',3,4',5,5',6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#206-2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#31-2,4',5-Trichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#44-2,2',3,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#5-2,3-Dichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#52-2,2',5,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#66-2,3',4,4'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
#87-2,2',3,4,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:40:16 PM
PCB, Total	5.5	2.8	J	µg/Kg-dry	1	2/9/2007 4:40:16 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Bis(2-chloroethyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2-Chlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
1,3-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
1,4-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
1,2-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Bis(2-chloroisopropyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
N-Nitrosodi-n-propylamine	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 2A
Work Order: 070209003 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209003-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Hexachloroethane	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Nitrobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Isophorone	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2-Nitrophenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,4-Dimethylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Bis(2-chloroethoxy)methane	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,4-Dichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
1,2,4-Trichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Naphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Chloroaniline	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Hexachlorobutadiene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Chloro-3-methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2-Methylnaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Hexachlorocyclopentadiene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,4,6-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,4,5-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2-Chloronaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Dimethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Acenaphthylene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,6-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Acenaphthene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Dibenzofuran	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
2,4-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Diethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Chlorophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Fluorene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
N-Nitrosodiphenylamine	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
4-Bromophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Pentachlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Phenanthrene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment Client Sample ID: ESMI PoP-Prod 2A
 Work Order: 070209003 Collection Date: 2/8/2007
 Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod Lab Sample ID: 070209003-002
 PO#: 2006516 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Carbazole	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Di-n-butyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Butyl benzyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
3,3'-Dichlorobenzidine	< 740	740		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Benz(a)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Chrysene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Bis(2-ethylhexyl)phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Di-n-octyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Benzo(b)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Benzo(k)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Benzo(a)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Indeno(1,2,3-cd)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Dibenz(a,h)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
Benzo(g,h,i)perylene	< 370	370		µg/Kg-dry	1	2/12/2007 4:22:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Acetone	28	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
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 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 2A
Work Order: 070209003 **Collection Date:** 2/8/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209003-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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VOLATILE ORGANICS SW8260B Analyst: ML

Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:59:00 PM

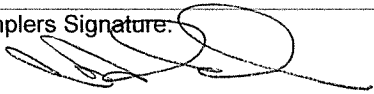
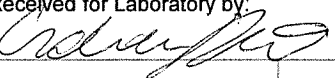
PH SW9045B Analyst: LS

pH	11.9	1.0		pH Units	1	2/9/2007
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MOISURE CONTENT D2216 Analyst: RC

Percent Moisture	10.4	1.0		wt%	1	2/9/2007
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Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Client Name: DA Collins			Address: 34 Freemans Bridge Rd					
Send Report to: J Bradshaw			Project Name (Location): FBR			Samplers Name: J Bradshaw		
Client Phone #: 361-1247			Client PO #: 2006516			Samplers Signature: 		
Client Fax #: 377-4147								
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type			Number of Cont's	Analysis
				Matrix	C	G		
001	ESMI PoP-Feed 2A	2/8/2007	2030 A P	soil	X		2	VOC,SVOC,PCB
002	ESMI PoP-Prod 2A	2/8/2007	2035 A P	soil	X		2	VOC,SVOC,PCB
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
AES Work Order #: 070209003				Special Instructions/Remarks: 48 Hr. TAT samples are PCB Congeners Analysis is per Full Suite guidelines Prod				
Turnaround Time Requested: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day								
Relinquished by: (Signature) 		Date 2/8/07	Time 0800	Received by: (Signature) 		Date 2/9/07	Time 8:00am	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Relinquished by: (Signature)		Date	Time	Received for Laboratory by: 		Date 2/9	Time 8:15	
Sample Temperature Ambient ~ <u>Chilled</u>				Properly Preserved <u>Y</u> N		Received Within Holding Times <u>Y</u> N		
Notes: <u>2</u>				Notes:		Notes:		



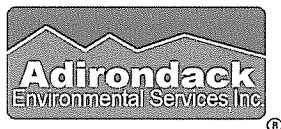
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 15, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070212004

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
ESMI PoP Feed & Prod 2B

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 2/12/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

ELAP#: 10709

AIHA#: 100307

Tara Daniels
Laboratory Manager

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentitively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 2B
Work Order: 070212004 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070212004-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/13/2007)						
Aluminum	9230	22.6		µg/g-dry	1	2/13/2007 11:22:00 AM
Antimony	< 13.6	13.6		µg/g-dry	1	2/13/2007 11:22:00 AM
Arsenic	< 1.13	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Barium	117	2.26		µg/g-dry	1	2/13/2007 11:22:00 AM
Beryllium	< 1.13	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Cadmium	< 1.13	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Calcium	36600	113		µg/g-dry	1	2/13/2007 11:22:00 AM
Chromium	36.8	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Cobalt	18.6	11.3		µg/g-dry	1	2/13/2007 11:22:00 AM
Copper	44.9	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Iron	23700	113		µg/g-dry	10	2/13/2007 12:16:00 PM
Lead	193	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Magnesium	5920	113		µg/g-dry	1	2/13/2007 11:22:00 AM
Manganese	324	2.26		µg/g-dry	1	2/13/2007 11:22:00 AM
Nickel	< 11.3	11.3		µg/g-dry	1	2/13/2007 11:22:00 AM
Potassium	1750	113		µg/g-dry	1	2/13/2007 11:22:00 AM
Selenium	< 1.13	1.13		µg/g-dry	1	2/13/2007 11:22:00 AM
Silver	< 4.52	4.52		µg/g-dry	1	2/13/2007 11:22:00 AM
Sodium	831	113		µg/g-dry	1	2/13/2007 11:22:00 AM
Thallium	< 2.26	2.26		µg/g-dry	1	2/13/2007 11:22:00 AM
Vanadium	14.2	11.3		µg/g-dry	1	2/13/2007 11:22:00 AM
Zinc	154	2.26		µg/g-dry	1	2/13/2007 11:22:00 AM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/13/2007)						
Mercury	< 0.226	0.226		µg/g-dry	1	2/13/2007
ASH ASTM D482						Analyst: PL
Ash	90.3	0.011		%-dry	1	2/12/2007
PH SW9045B						Analyst: LS
pH	12.1	1.0		pH Units	1	2/13/2007
MOISURE CONTENT D2216						Analyst: PL
Percent Moisture	11.6	1.0		wt%	1	2/12/2007

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
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S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc**Date:** 15-Feb-07

CLIENT:	D.A.Collins Environment	Client Sample ID:	ESMI PoP-Feed 2B
Work Order:	070212004	Collection Date:	2/9/2007
Reference:	Freeman's Bridge Road / ESMI PoP Feed & Prod	Lab Sample ID:	070212004-001
PO#:		Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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TOTAL SOLIDS	ASTM D2216					Analyst: PL
Solids, Total	88.4	1.0		%	1	2/12/2007

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
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	B - Analyte detected in the associated Method Blank	T - Tentatively Identified Compound-Estimated Conc.
	X - Value exceeds Maximum Contaminant Level	E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 2B
Work Order: 070212004 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070212004-002
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/13/2007)						
Aluminum	7840	23.2		µg/g-dry	1	2/13/2007 11:49:00 AM
Antimony	< 13.9	13.9		µg/g-dry	1	2/13/2007 11:49:00 AM
Arsenic	2.95	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Barium	119	2.32		µg/g-dry	1	2/13/2007 11:49:00 AM
Beryllium	< 1.16	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Cadmium	< 1.16	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Calcium	40300	1160		µg/g-dry	10	2/13/2007 12:25:00 PM
Chromium	38.0	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Cobalt	19.1	11.6		µg/g-dry	1	2/13/2007 11:49:00 AM
Copper	46.8	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Iron	15300	116		µg/g-dry	10	2/13/2007 12:25:00 PM
Lead	186	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Magnesium	5770	116		µg/g-dry	1	2/13/2007 11:49:00 AM
Manganese	354	2.32		µg/g-dry	1	2/13/2007 11:49:00 AM
Nickel	< 11.6	11.6		µg/g-dry	1	2/13/2007 11:49:00 AM
Potassium	1070	116		µg/g-dry	1	2/13/2007 11:49:00 AM
Selenium	< 1.16	1.16		µg/g-dry	1	2/13/2007 11:49:00 AM
Silver	< 4.63	4.63		µg/g-dry	1	2/13/2007 11:49:00 AM
Sodium	914	116		µg/g-dry	1	2/13/2007 11:49:00 AM
Thallium	< 2.32	2.32		µg/g-dry	1	2/13/2007 11:49:00 AM
Vanadium	12.4	11.6		µg/g-dry	1	2/13/2007 11:49:00 AM
Zinc	172	2.32		µg/g-dry	1	2/13/2007 11:49:00 AM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/13/2007)						
Mercury	0.481	0.232		µg/g-dry	1	2/13/2007
ASH ASTM D482						Analyst: PL
Ash	90.4	0.012		%-dry	1	2/12/2007
PH SW9045B						Analyst: LS
pH	12.4	1.0		pH Units	1	2/13/2007
MOISURE CONTENT D2216						Analyst: PL
Percent Moisture	13.7	1.0		wt%	1	2/12/2007

Qualifiers: ND - Not Detected at the Reporting Limit
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Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: ESMI PoP-Prod 2B

Work Order: 070212004

Collection Date: 2/9/2007

Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod

Lab Sample ID: 070212004-002

PO#:

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL SOLIDS ASTM D2216						Analyst: PL
Solids, Total	86.3	1.0		%	1	2/12/2007

Qualifiers:

ND - Not Detected at the Reporting Limit

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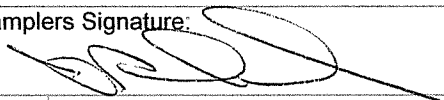
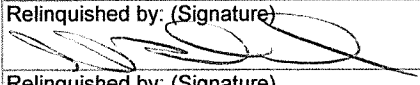
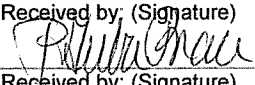
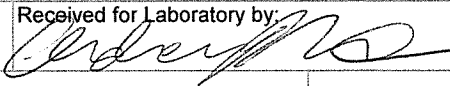


EXPERIENCE IS THE SOLUTION

314 North Pearl Street ♦ Albany, New York 12207 ♦ (518) 434-4546 ♦ Fax: (518) 434-0891

A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

Client Name: DA Collins		Address: 34 Freemans Bridge Rd						
Send Report to: J Bradshaw		Project Name (Location): FBR			Samplers Name: J Bradshaw			
Client Phone #: 361-1247		Client PO #: 2006516			Samplers Signature: 			
Client Fax #: 377-4147								
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type			Number of Cont's	Analysis
				Matrix	C	G		
001	ESMI PoP-Feed 2B	2/9/2007	1750	A	soil	X	1	Metals, pH, %solids, Ash
002	ESMI PoP-Prod 2B	2/9/2007	1755	P	soil	X	1	Metals, pH, %solids, Ash
				P				
				P				
				P				
				P				
				P				
				P				
				P				
				P				
				P				
				P				
				P				
AES Work Order #: 070212004				Special Instructions/Remarks: 5 day TAT				
Turnaround Time Requested: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day								
Relinquished by: (Signature) 		Date	Time	Received by: (Signature) 		Date	Time	
		2/12/07	8:05			2/12/07	8:05	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	
Relinquished by: (Signature)		Date	Time	Received for Laboratory by: 		Date	Time	
						2/12	8:55	
Sample Temperature Ambient ☒ Chilled			Properly Preserved ☒ Y N			Received Within Holding Times ☒ Y N		
Notes: 10			Notes:			Notes:		



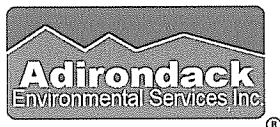
Experience is the solution

314 North Pearl Street • Albany, New York 12207 • (518) 434-4546 • Fax (518) 434-0891

TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



Experience is the solution

314 North Pearl Street ♦ Albany, New York 12207
(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 13, 2007

Jay Bradshaw
D.A.Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070209002

TEL: (518) 664-9855

PO#: 2006516

FAX: (518) 664-0925

RE: Freeman's Bridge Road
ESMI PoP Feed & Prod 3A

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 2/9/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709
AIHA#: 100307

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

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R - RPD outside accepted recovery limits

T - Tentatively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 3A
Work Order: 070209002 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209002-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
POLYCHLORINATED BIPHENYLS SW8082						Analyst: KF
(Prep: SW3545 - 2/9/2007)						
Aroclor 1016	< 1900	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
Aroclor 1221	< 1900	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
Aroclor 1232	< 1900	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
Aroclor 1242	< 1900	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
Aroclor 1248	12000	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
Aroclor 1254	7000	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
Aroclor 1260	< 1900	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
PCB, Total	19000	1900		µg/Kg-dry	50	2/9/2007 8:47:43 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Bis(2-chloroethyl)ether	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2-Chlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
1,3-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
1,4-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
1,2-Dichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2-Methylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Bis(2-chloroisopropyl)ether	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Methylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
N-Nitrosodi-n-propylamine	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Hexachloroethane	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Nitrobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Isophorone	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2-Nitrophenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,4-Dimethylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Bis(2-chloroethoxy)methane	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,4-Dichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
1,2,4-Trichlorobenzene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Naphthalene	630	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Chloroaniline	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Hexachlorobutadiene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Chloro-3-methylphenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2-Methylnaphthalene	510	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Hexachlorocyclopentadiene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,4,6-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,4,5-Trichlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2-Chloronaphthalene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
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 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 3A
Work Order: 070209002 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209002-001
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Dimethyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Acenaphthylene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,6-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Acenaphthene	880	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Dibenzofuran	1000	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
2,4-Dinitrotoluene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Diethyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Chlorophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Fluorene	1400	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
N-Nitrosodiphenylamine	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
4-Bromophenyl phenyl ether	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Pentachlorophenol	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Phenanthrene	5100	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Anthracene	2300	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Carbazole	450	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Di-n-butyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Fluoranthene	4500	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Pyrene	3900	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Butyl benzyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
3,3'-Dichlorobenzidine	< 760	760		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Benz(a)anthracene	1900	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Chrysene	1800	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Bis(2-ethylhexyl)phthalate	420	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Di-n-octyl phthalate	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Benzo(b)fluoranthene	2400	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Benzo(k)fluoranthene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Benzo(a)pyrene	1700	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Indeno(1,2,3-cd)pyrene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Dibenz(a,h)anthracene	< 380	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM
Benzo(g,h,i)perylene	500	380		µg/Kg-dry	1	2/12/2007 4:51:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentatively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment

Client Sample ID: ESMI PoP-Feed 3A

Work Order: 070209002

Collection Date: 2/9/2007

Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod

Lab Sample ID: 070209002-001

PO#: 2006516

Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Bromomethane	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Vinyl chloride	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Chloroethane	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Acetone	24	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
2-Butanone	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
4-Methyl-2-pentanone	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
2-Hexanone	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Ethylbenzene	6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
m,p-Xylene	34	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
o-Xylene	11	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM

Qualifiers:
 ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment**Client Sample ID:** ESMI PoP-Feed 3A**Work Order:** 070209002**Collection Date:** 2/9/2007**Reference:** Freeman's Bridge Road / ESMI PoP Feed & Prod**Lab Sample ID:** 070209002-001**PO#:** 2006516**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Cyclohexane	< 12	12		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Methyl Cyclohexane	9	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 12:36:00 PM
PH SW9045B						Analyst: LS
pH	12.2	1.0		pH Units	1	2/9/2007
MOISURE CONTENT D2216						Analyst: RC
Percent Moisture	13.7	1.0		wt%	1	2/9/2007

Qualifiers: ND - Not Detected at the Reporting Limit
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B - Analyte detected in the associated Method Blank
X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 3A
Work Order: 070209002 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209002-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA 8082 CONGENERS SW8082						Analyst: KF
(Prep: CLP4_PEST - 2/9/2007)						
#101-2,2',4,5,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#110-2,3,3',4',6-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#1-2-Chlorobiphenyl	< 11.2	11.2		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#138-2,2',3,4,4',5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#141-2,2',3,4,5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#151-2,2',3,5,5',6-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#153-2,2',4,4',5,5'-Hexachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#170-2,2',3,3',4,4',5-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#180-2,2',3,4,4',5,5'-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#18-2,2',5-Trichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#183-2,2',3,4,4',5,6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#187-2,2',3,4',5,5',6-Heptachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#206-2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#31-2,4',5-Trichlorobiphenyl	3.6	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#44-2,2',3,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#5-2,3-Dichlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#52-2,2',5,5'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#66-2,3',4,4'-Tetrachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
#87-2,2',3,4,5'-Pentachlorobiphenyl	< 2.8	2.8		µg/Kg-dry	1	2/9/2007 4:11:09 PM
PCB, Total	10.8	2.8	J	µg/Kg-dry	1	2/9/2007 4:11:09 PM
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Phenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Bis(2-chloroethyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2-Chlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
1,3-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
1,4-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
1,2-Dichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Bis(2-chloroisopropyl)ether	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
N-Nitrosodi-n-propylamine	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM

Qualifiers: ND - Not Detected at the Reporting Limit
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 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 3A
Work Order: 070209002 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209002-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Hexachloroethane	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Nitrobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Isophorone	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2-Nitrophenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,4-Dimethylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Bis(2-chloroethoxy)methane	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,4-Dichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
1,2,4-Trichlorobenzene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Naphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Chloroaniline	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Hexachlorobutadiene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Chloro-3-methylphenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2-Methylnaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Hexachlorocyclopentadiene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,4,6-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,4,5-Trichlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2-Chloronaphthalene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Dimethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Acenaphthylene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,6-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
3-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Acenaphthene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,4-Dinitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Nitrophenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Dibenzofuran	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
2,4-Dinitrotoluene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Diethyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Chlorophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Fluorene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Nitroaniline	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4,6-Dinitro-2-methylphenol	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
N-Nitrosodiphenylamine	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
4-Bromophenyl phenyl ether	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Hexachlorobenzene	< 1900	1900		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Pentachlorophenol	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Phenanthrene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM

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J - Analyte detected below quantitation limits
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X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
T - Tentitively Identified Compound-Estimated Conc.
E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 3A
Work Order: 070209002 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209002-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
SEMI VOLATILE ORGANICS SW8270C						Analyst: MT
(Prep: SW3545 - 2/12/2007)						
Carbazole	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Di-n-butyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Butyl benzyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
3,3'-Dichlorobenzidine	< 740	740		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Benz(a)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Chrysene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Bis(2-ethylhexyl)phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Di-n-octyl phthalate	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Benzo(b)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Benzo(k)fluoranthene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Benzo(a)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Indeno(1,2,3-cd)pyrene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Dibenz(a,h)anthracene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
Benzo(g,h,i)perylene	< 370	370		µg/Kg-dry	1	2/12/2007 3:55:00 PM
VOLATILE ORGANICS SW8260B						Analyst: ML
Chloromethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Bromomethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Vinyl chloride	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Chloroethane	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Methylene chloride	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Acetone	20	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Carbon disulfide	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,1-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,1-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
trans-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
cis-1,2-Dichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Chloroform	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,2-Dichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
2-Butanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,1,1-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Carbon tetrachloride	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Bromodichloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,2-Dichloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
cis-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM

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S - Spike Recovery outside accepted recovery limits
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 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 13-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 3A
Work Order: 070209002 **Collection Date:** 2/9/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070209002-002
PO#: 2006516 **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
VOLATILE ORGANICS SW8260B						Analyst: ML
Trichloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Dibromochloromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,1,2-Trichloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Benzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
trans-1,3-Dichloropropene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Bromoform	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
4-Methyl-2-pentanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
2-Hexanone	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Tetrachloroethene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,1,2,2-Tetrachloroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Toluene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Chlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Ethylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Styrene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
m,p-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
o-Xylene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Methyl tert-butyl ether	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Dichlorodifluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Methyl Acetate	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,1,2-Trichloro-1,2,2-trifluoroethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Trichlorofluoromethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Cyclohexane	< 11	11		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Methyl Cyclohexane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,2-Dibromoethane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,3-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
Isopropylbenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,4-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,2-Dichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,2-Dibromo-3-chloropropane	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
1,2,4-Trichlorobenzene	< 6	6		µg/Kg-dry	1	2/9/2007 1:03:00 PM
PH SW9045B						Analyst: LS
pH	12.0	1.0		pH Units	1	2/9/2007
MOISURE CONTENT D2216						Analyst: RC
Percent Moisture	11.1	1.0		wt%	1	2/9/2007

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentatively Identified Compound-Estimated Conc.
 E - Value above quantitation range

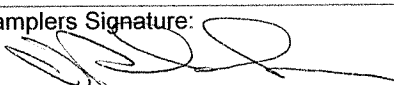
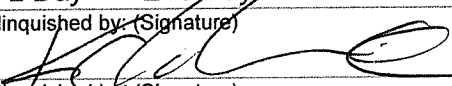
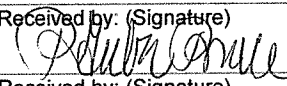
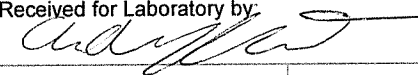
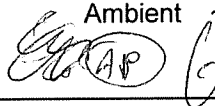


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A full service analytical research laboratory offering solutions to environmental concerns

CHAIN OF CUSTODY RECORD

Client Name: DA Collins		Address: 34 Freemans Bridge Rd						
Send Report to: J Bradshaw		Project Name (Location): FBR			Samplers Name: J Bradshaw			
Client Phone #: 361-1247		Client PO #: 2006516			Samplers Signature: 			
Client Fax #: 377-4147								
AES Sample Number	Client Sample Identification & Location	Date Sampled	Time A=am P=pm	Sample Type			Number of Cont's	Analysis
				Matrix	C	G		
001	ESMI PoP-Feed 3A	2/9/07	A P	soil	X		2	VOC,SVOC,PCB
002	ESMI PoP-Prod 3A	2/9/07	A P	soil	X		2	VOC,SVOC,PCB
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
			A P					
AES Work Order #: 070209002				Special Instructions/Remarks: 48 Hr. TAT samples are PCB Congeners Analysis is per Full Suite guidelines Prod				
Turnaround Time Requested: ☐ 1 Day ☐ 3 Day ☐ Normal ☐ 2 Day ☐ 5 Day								
Relinquished by: (Signature) 		Date: 2/9/07	Time: 0800	Received by: (Signature) 		Date: 2/9/07	Time: 8:00 AM	
Relinquished by: (Signature)		Date:	Time:	Received by: (Signature)		Date:	Time:	
Relinquished by: (Signature)		Date:	Time:	Received for Laboratory by: 		Date: 2/9	Time: 8:37	
Sample Temperature Ambient ~ Chilled  6				Properly Preserved ☒ Y ☐ N		Received Within Holding Times ☒ Y ☐ N		
Notes: _____				Notes: _____		Notes: _____		



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TERMS, CONDITIONS & LIMITATIONS

All Services rendered by **Adirondack Environmental Services, Inc.** are undertaken and all rates are based upon the following terms:

- (a) Neither **Adirondack Environmental Services, Inc.**, nor any of its employees, agents or sub-contractors shall be liable for any loss or damage arising out of **Adirondack Environmental Services, Inc.'s** performance or nonperformance, whether by way of negligence or breach of contract, or otherwise, in any amount greater than twice the amount billed to the customer for the work leading to the claim of the customer. Said remedy shall be the sole and exclusive remedy against **Adirondack Environmental Services, Inc.** arising out of its work.
- (b) All claims made must be in writing within forty-five (45) days after delivery of the **Adirondack Environmental Services, Inc.** report regarding said work or such claim shall be deemed as irrevocably waived.
- (c) **Adirondack Environmental Services, Inc.** reports are submitted in writing and are for our customers only. Our customers are considered to be only those entities being billed for our services. Acquisition of an **Adirondack Environmental Services, Inc.** report by other than our customer does not constitute a representation of **Adirondack Environmental Services, Inc.** as to the accuracy of the contents thereof.
- (d) In no event shall **Adirondack Environmental Services, Inc.**, its employees agents or sub-contractors be responsible for consequential or special damages of any kind or in any amount.
- (e) No deviation from the terms set forth herein shall bind **Adirondack Environmental Services, Inc.** unless in writing and signed by a Director of **Adirondack Environmental Services, Inc.**
- (f) Results pertain only to items analyzed. Information supplied by client is assumed to be correct. This information may be used on reports and in calculations and **Adirondack Environmental Services, Inc.** is not responsible for the accuracy of this information.



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(800) 848-4983 ♦ (518) 434-4546 ♦ Fax (518) 434-0891

February 15, 2007

Jay Bradshaw
D.A. Collins Environment
101 Route 67
PO Box 191
Mechanicville, NY 12118-0191

Work Order No: 070212005

TEL: (518) 664-9855

FAX: (518) 664-0925

RE: Freeman's Bridge Road
ESMI PoP Feed & Prod 3B

Dear Jay Bradshaw:

Adirondack Environmental Services, Inc received 2 samples on 2/12/2007 for the analyses presented in the following report.

There were no problems with the analyses and all associated QC met EPA or laboratory specifications, except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Tara Daniels
Laboratory Manager

ELAP#: 10709

AIHA#: 100307

J. Bradshaw 377-4147 - FAX

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentitively Identified Compound-Estimated Conc.

E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Feed 3B
Work Order: 070212005 **Collection Date:** 2/6/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070212005-001
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/13/2007)						
Aluminum	6680	22.9		µg/g-dry	1	2/13/2007 11:55:00 AM
Antimony	< 13.7	13.7		µg/g-dry	1	2/13/2007 11:55:00 AM
Arsenic	1.75	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Barium	119	2.29		µg/g-dry	1	2/13/2007 11:55:00 AM
Beryllium	< 1.15	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Cadmium	< 1.15	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Calcium	30900	115		µg/g-dry	1	2/13/2007 11:55:00 AM
Chromium	37.9	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Cobalt	18.7	11.5		µg/g-dry	1	2/13/2007 11:55:00 AM
Copper	38.7	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Iron	17400	11.5		µg/g-dry	1	2/13/2007 11:55:00 AM
Lead	199	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Magnesium	4220	115		µg/g-dry	1	2/13/2007 11:55:00 AM
Manganese	385	2.29		µg/g-dry	1	2/13/2007 11:55:00 AM
Nickel	< 11.5	11.5		µg/g-dry	1	2/13/2007 11:55:00 AM
Potassium	834	115		µg/g-dry	1	2/13/2007 11:55:00 AM
Selenium	< 1.15	1.15		µg/g-dry	1	2/13/2007 11:55:00 AM
Silver	< 4.58	4.58		µg/g-dry	1	2/13/2007 11:55:00 AM
Sodium	776	115		µg/g-dry	1	2/13/2007 11:55:00 AM
Thallium	< 2.29	2.29		µg/g-dry	1	2/13/2007 11:55:00 AM
Vanadium	11.8	11.5		µg/g-dry	1	2/13/2007 11:55:00 AM
Zinc	159	2.29		µg/g-dry	1	2/13/2007 11:55:00 AM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/13/2007)						
Mercury	0.510	0.229		µg/g-dry	1	2/13/2007
ASH ASTM D482						Analyst: PL
Ash	87.2	0.012		%-dry	1	2/12/2007
PH SW9045B						Analyst: LS
pH	12.3	1.0		pH Units	1	2/13/2007
MOISURE CONTENT D2216						Analyst: PL
Percent Moisture	12.7	1.0		wt%	1	2/12/2007

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank T - Tentitively Identified Compound-Estimated Conc.
 X - Value exceeds Maximum Contaminant Level E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT:	D.A.Collins Environment	Client Sample ID:	ESMI PoP-Feed 3B
Work Order:	070212005	Collection Date:	2/6/2007
Reference:	Freeman's Bridge Road / ESMI PoP Feed & Prod	Lab Sample ID:	070212005-001
PO#:		Matrix:	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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TOTAL SOLIDS	ASTM D2216					Analyst: PL
Solids, Total	87.3	1.0		%	1	2/12/2007

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	T - Tentatively Identified Compound-Estimated Conc.
	X - Value exceeds Maximum Contaminant Level	E - Value above quantitation range

Adirondack Environmental Services, Inc

Date: 15-Feb-07

CLIENT: D.A.Collins Environment **Client Sample ID:** ESMI PoP-Prod 3B
Work Order: 070212005 **Collection Date:** 2/6/2007
Reference: Freeman's Bridge Road / ESMI PoP Feed & Prod **Lab Sample ID:** 070212005-002
PO#: **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
ICP METALS SW6010B						Analyst: SM
(Prep: SW3050A - 2/13/2007)						
Aluminum	10000	22.5		µg/g-dry	1	2/13/2007 12:06:00 PM
Antimony	< 13.5	13.5		µg/g-dry	1	2/13/2007 12:06:00 PM
Arsenic	2.18	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Barium	159	2.25		µg/g-dry	1	2/13/2007 12:06:00 PM
Beryllium	< 1.12	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Cadmium	< 1.12	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Calcium	37500	112		µg/g-dry	1	2/13/2007 12:06:00 PM
Chromium	70.9	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Cobalt	24.7	11.2		µg/g-dry	1	2/13/2007 12:06:00 PM
Copper	42.9	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Iron	19700	112		µg/g-dry	10	2/13/2007 12:30:00 PM
Lead	418	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Magnesium	6870	112		µg/g-dry	1	2/13/2007 12:06:00 PM
Manganese	408	2.25		µg/g-dry	1	2/13/2007 12:06:00 PM
Nickel	< 11.2	11.2		µg/g-dry	1	2/13/2007 12:06:00 PM
Potassium	1580	112		µg/g-dry	1	2/13/2007 12:06:00 PM
Selenium	< 1.12	1.12		µg/g-dry	1	2/13/2007 12:06:00 PM
Silver	< 4.50	4.50		µg/g-dry	1	2/13/2007 12:06:00 PM
Sodium	1030	112		µg/g-dry	1	2/13/2007 12:06:00 PM
Thallium	< 2.25	2.25		µg/g-dry	1	2/13/2007 12:06:00 PM
Vanadium	13.3	11.2		µg/g-dry	1	2/13/2007 12:06:00 PM
Zinc	336	2.25		µg/g-dry	1	2/13/2007 12:06:00 PM
MERCURY SW7471A						Analyst: KH
(Prep: SW7471A - 2/13/2007)						
Mercury	< 0.225	0.225		µg/g-dry	1	2/13/2007
ASH ASTM D482						Analyst: PL
Ash	88.2	0.011		%-dry	1	2/12/2007
PH SW9045B						Analyst: LS
pH	11.9	1.0		pH Units	1	2/13/2007
MOISURE CONTENT D2216						Analyst: PL
Percent Moisture	11.1	1.0		wt%	1	2/12/2007

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 B - Analyte detected in the associated Method Blank
 X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 T - Tentitively Identified Compound-Estimated Conc.
 E - Value above quantitation range

Adirondack Environmental Services, Inc**Date:** 15-Feb-07**CLIENT:** D.A.Collins Environment**Client Sample ID:** ESMI PoP-Prod 3B**Work Order:** 070212005**Collection Date:** 2/6/2007**Reference:** Freeman's Bridge Road / ESMI PoP Feed & Prod**Lab Sample ID:** 070212005-002**PO#:****Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
TOTAL SOLIDS	ASTM D2216					Analyst: PL
Solids, Total	88.9	1.0		%	1	2/12/2007

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

X - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

T - Tentitively Identified Compound-Estimated Conc.

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Appendix C

Emissions Test Analytical Data

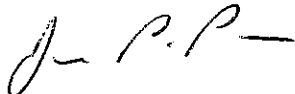
Your Project #: 20705
Site: FBR**Attention: Carl Palmer**TD*X Associates LP
148 South Dowlen Rd
PMB 700
Beaumont, TX
USA 77707

Report Date: 2007/02/14

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A713295****Received: 2007/02/10, 6:00**Sample Matrix: SAMPLING TRAIN
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Semi-Volatile in Filters by Scan GC/MS	4	2007/02/10	2007/02/12	BRL SOP-00200	EPA SW846-0010/8271

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

MAXXAM ANALYTICS INC.JIM POWER, CET
Project ManagerJP2/jp2
encl.

Total cover pages: 1

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

SEMI-VOLATILE ORGANICS BY GC-MS (SAMPLING TRAIN)

Maxxam ID		Q89281		Q89282		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0010-BLANK	RDL	M0010-RUN1	RDL	QC Batch
1,2,4-Trichlorobenzene	ug	ND	4	ND	4	1163558
1,2-Dichlorobenzene	ug	ND	4	ND	4	1163558
1,3-Dichlorobenzene	ug	ND	4	ND	4	1163558
1,4-Dichlorobenzene	ug	ND	4	ND	4	1163558
1-Chloronaphthalene	ug	ND	4	ND	4	1163558
2,4,5-Trichlorophenol	ug	ND	4	ND	4	1163558
2,4,6-Trichlorophenol	ug	ND	3	ND	3	1163558
2,4-Dichlorophenol	ug	ND	3	ND	3	1163558
2,4-Dimethylphenol	ug	ND	4	14	2	1163558
2,4-Dinitrophenol	ug	ND	10	ND	10	1163558
2,4-Dinitrotoluene	ug	ND	2	ND	2	1163558
2,6-Dinitrotoluene	ug	ND	3	ND	3	1163558
2-Chloronaphthalene	ug	ND	2	ND	2	1163558
2-Chlorophenol	ug	ND	5	ND	5	1163558
2-Methylnaphthalene	ug	ND	4	13	2	1163558
2-Methylphenol	ug	ND	4	35	2	1163558
2-Nitroaniline	ug	ND	10	ND	10	1163558
2-Nitrophenol	ug	ND	3	5	2	1163558
3 & 4-methylphenol	ug	ND	3	88	3	1163558
3,3'-Dichlorobenzidine	ug	ND	5	ND	5	1163558
3-Nitroaniline	ug	ND	10	ND	10	1163558
4,6-Dinitro-2-methylphenol	ug	ND	8	ND	8	1163558
4-Bromophenyl phenyl ether	ug	ND	1	ND	1	1163558
4-Chloro-3-Methylphenol	ug	ND	3	ND	3	1163558
4-Chloroaniline	ug	ND	10	ND	10	1163558
4-Chlorophenyl phenyl ether	ug	ND	2	ND	2	1163558
4-Nitroaniline	ug	ND	10	ND	10	1163558
4-Nitrophenol	ug	ND	7	ND	7	1163558
Acenaphthene	ug	ND	1	ND	1	1163558
Acenaphthylene	ug	ND	1	1.7	0.5	1163558
Aniline	ug	ND	10	ND	10	1163558
Anthracene	ug	ND	0.8	1.5	0.4	1163558
Benzidine	ug	ND	40	ND	40	1163558
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

SEMI-VOLATILE ORGANICS BY GC-MS (SAMPLING TRAIN)

Maxxam ID		Q89281		Q89282		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0010-BLANK	RDL	M0010-RUN1	RDL	QC Batch
Benzo(a)anthracene	ug	ND	0.8	ND	0.8	1163558
Benzo(a)pyrene	ug	ND	1	ND	1	1163558
Benzo(b)fluoranthene	ug	ND	0.8	ND	0.8	1163558
Benzo(g,h,i)perylene	ug	ND	0.8	ND	0.8	1163558
Benzo(k)fluoranthene	ug	ND	1	ND	1	1163558
Benzoic Acid	ug	ND	10	53	5	1163558
Benzyl Alcohol	ug	ND	4	ND	4	1163558
Benzyl butyl phthalate	ug	ND	1	ND	1	1163558
Biphenyl	ug	ND	4	7	2	1163558
Bis(2-chloroethoxy)methane	ug	ND	3	ND	3	1163558
Bis(2-chloroethyl)ether	ug	ND	4	4	2	1163558
Bis(2-chloroisopropyl)ether	ug	ND	3	ND	3	1163558
Bis(2-ethylhexyl)phthalate	ug	ND	6	16	3	1163558
Carbazole	ug	ND	10	ND	10	1163558
Chrysene	ug	ND	0.8	0.8	0.4	1163558
Dibenzo(a,h)anthracene	ug	ND	0.8	ND	0.8	1163558
Dibenzofuran	ug	ND	10	ND	10	1163558
Diethyl phthalate	ug	ND	2	17	1	1163558
Dimethyl phthalate	ug	ND	2	ND	2	1163558
Di-N-butyl phthalate	ug	ND	2	ND	2	1163558
Di-N-octyl phthalate	ug	ND	2	ND	2	1163558
Fluoranthene	ug	ND	0.8	4.7	0.4	1163558
Fluorene	ug	ND	0.8	1.6	0.4	1163558
Hexachlorobenzene	ug	ND	4	ND	4	1163558
Hexachlorobutadiene	ug	ND	4	ND	4	1163558
Hexachlorocyclopentadiene	ug	ND	4	ND	4	1163558
Hexachloroethane	ug	ND	4	ND	4	1163558
Indeno(1,2,3-cd)pyrene	ug	ND	1	ND	1	1163558
Isophorone	ug	ND	8	ND	8	1163558
Naphthalene	ug	ND	1	28.3	0.6	1163558
Nitrobenzene	ug	ND	4	ND	4	1163558
N-Nitrosodimethylamine	ug	ND	20	ND	20	1163558
N-Nitroso-di-n-propylamine	ug	ND	4	ND	4	1163558
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

SEMI-VOLATILE ORGANICS BY GC-MS (SAMPLING TRAIN)

Maxxam ID		Q89281		Q89282		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0010-BLANK	RDL	M0010-RUN1	RDL	QC Batch
N-Nitrosodiphenylamine	ug	ND	4	ND	4	1163558
Pentachlorophenol	ug	ND	6	ND	6	1163558
Phenanthrene	ug	ND	0.8	11.7	0.4	1163558
Phenol	ug	ND	3	273	20	1163558
Pyrene	ug	ND	0.6	2.3	0.3	1163558
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	83	N/A	99	N/A	1163558
2,6-Dibromo-4-fluorophenol (FS)	%	80	N/A	99	N/A	1163558
2-Fluorobiphenyl	%	80	N/A	87	N/A	1163558
2-Fluorophenol	%	61	N/A	84	N/A	1163558
D10-Pyrene (FS)	%	86	N/A	91	N/A	1163558
D14-Terphenyl (FS)	%	88	N/A	90	N/A	1163558
D5-Nitrobenzene	%	70	N/A	94	N/A	1163558
D5-Phenol	%	75	N/A	90	N/A	1163558
ND = Not detected N/A = Not Applicable RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

SEMI-VOLATILE ORGANICS BY GC-MS (SAMPLING TRAIN)

Maxxam ID		Q89283		Q89284		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0010-RUN2	RDL	M0010-RUN3	RDL	QC Batch
1,2,4-Trichlorobenzene	ug	ND	4	ND	4	1163558
1,2-Dichlorobenzene	ug	ND	4	ND	4	1163558
1,3-Dichlorobenzene	ug	ND	4	ND	4	1163558
1,4-Dichlorobenzene	ug	ND	4	ND	4	1163558
1-Chloronaphthalene	ug	ND	4	ND	4	1163558
2,4,5-Trichlorophenol	ug	ND	4	ND	4	1163558
2,4,6-Trichlorophenol	ug	ND	3	ND	3	1163558
2,4-Dichlorophenol	ug	ND	3	ND	3	1163558
2,4-Dimethylphenol	ug	35	4	7	4	1163558
2,4-Dinitrophenol	ug	ND	10	ND	10	1163558
2,4-Dinitrotoluene	ug	ND	2	ND	2	1163558
2,6-Dinitrotoluene	ug	ND	3	ND	3	1163558
2-Chloronaphthalene	ug	ND	2	ND	2	1163558
2-Chlorophenol	ug	ND	5	ND	5	1163558
2-Methylnaphthalene	ug	29	4	12	4	1163558
2-Methylphenol	ug	72	4	20	4	1163558
2-Nitroaniline	ug	ND	10	ND	10	1163558
2-Nitrophenol	ug	ND	3	ND	3	1163558
3 & 4-methylphenol	ug	160	3	47	3	1163558
3,3'-Dichlorobenzidine	ug	ND	5	ND	5	1163558
3-Nitroaniline	ug	ND	10	ND	10	1163558
4,6-Dinitro-2-methylphenol	ug	ND	8	ND	8	1163558
4-Bromophenyl phenyl ether	ug	ND	1	ND	1	1163558
4-Chloro-3-Methylphenol	ug	ND	3	ND	3	1163558
4-Chloroaniline	ug	ND	10	ND	10	1163558
4-Chlorophenyl phenyl ether	ug	ND	2	ND	2	1163558
4-Nitroaniline	ug	ND	10	ND	10	1163558
4-Nitrophenol	ug	ND	7	ND	7	1163558
Acenaphthene	ug	9	1	ND	1	1163558
Acenaphthylene	ug	9	1	1	1	1163558
Aniline	ug	ND	10	ND	10	1163558
Anthracene	ug	11.8	0.8	0.8	0.8	1163558
Benzidine	ug	ND	40	ND	40	1163558
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

SEMI-VOLATILE ORGANICS BY GC-MS (SAMPLING TRAIN)

Maxxam ID		Q89283		Q89284		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0010-RUN2	RDL	M0010-RUN3	RDL	QC Batch
Benzo(a)anthracene	ug	4.5	0.8	ND	0.8	1163558
Benzo(a)pyrene	ug	1	1	ND	1	1163558
Benzo(b)fluoranthene	ug	3.8	0.8	ND	0.8	1163558
Benzo(g,h,i)perylene	ug	ND	0.8	ND	0.8	1163558
Benzo(k)fluoranthene	ug	1	1	ND	1	1163558
Benzoic Acid	ug	72	10	126	20	1163558
Benzyl Alcohol	ug	ND	4	ND	4	1163558
Benzyl butyl phthalate	ug	ND	1	ND	1	1163558
Biphenyl	ug	12	4	8	4	1163558
Bis(2-chloroethoxy)methane	ug	ND	3	ND	3	1163558
Bis(2-chloroethyl)ether	ug	ND	4	ND	4	1163558
Bis(2-chloroisopropyl)ether	ug	ND	3	ND	3	1163558
Bis(2-ethylhexyl)phthalate	ug	14	6	15	6	1163558
Carbazole	ug	ND	10	ND	10	1163558
Chrysene	ug	5.8	0.8	ND	0.8	1163558
Dibenzo(a,h)anthracene	ug	ND	0.8	ND	0.8	1163558
Dibenzofuran	ug	13	10	ND	10	1163558
Diethyl phthalate	ug	35	2	20	2	1163558
Dimethyl phthalate	ug	ND	2	ND	2	1163558
Di-N-butyl phthalate	ug	2	2	ND	2	1163558
Di-N-octyl phthalate	ug	ND	2	ND	2	1163558
Fluoranthene	ug	44.9	0.8	2.3	0.8	1163558
Fluorene	ug	11.1	0.8	1.0	0.8	1163558
Hexachlorobenzene	ug	ND	4	ND	4	1163558
Hexachlorobutadiene	ug	ND	4	ND	4	1163558
Hexachlorocyclopentadiene	ug	ND	4	ND	4	1163558
Hexachloroethane	ug	ND	4	ND	4	1163558
Indeno(1,2,3-cd)pyrene	ug	ND	1	ND	1	1163558
Isophorone	ug	ND	8	ND	8	1163558
Naphthalene	ug	47	1	26	1	1163558
Nitrobenzene	ug	ND	4	ND	4	1163558
N-Nitrosodimethylamine	ug	ND	20	ND	20	1163558
N-Nitroso-di-n-propylamine	ug	ND	4	ND	4	1163558
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

SEMI-VOLATILE ORGANICS BY GC-MS (SAMPLING TRAIN)

Maxxam ID		Q89283		Q89284		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0010-RUN2	RDL	M0010-RUN3	RDL	QC Batch
N-Nitrosodiphenylamine	ug	ND	4	ND	4	1163558
Pentachlorophenol	ug	ND	6	ND	6	1163558
Phenanthrene	ug	67.1	0.8	6.8	0.8	1163558
Phenol	ug	334	20	134	7	1163558
Pyrene	ug	28.3	0.6	1.2	0.6	1163558
Surrogate Recovery (%)						
2,4,6-Tribromophenol	%	96	N/A	103	N/A	1163558
2,6-Dibromo-4-fluorophenol (FS)	%	99	N/A	105	N/A	1163558
2-Fluorobiphenyl	%	90	N/A	96	N/A	1163558
2-Fluorophenol	%	92	N/A	95	N/A	1163558
D10-Pyrene (FS)	%	90	N/A	97	N/A	1163558
D14-Terphenyl (FS)	%	91	N/A	99	N/A	1163558
D5-Nitrobenzene	%	97	N/A	104	N/A	1163558
D5-Phenol	%	101	N/A	104	N/A	1163558
ND = Not detected N/A = Not Applicable RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713295
Report Date: 2007/02/14

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

Test Summary

Maxxam ID Q89281
Sample ID M0010-BLANK
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Semi-Volatile in Filters by Scan GC/MS	GC/MS	1163558	2007/02/10	2007/02/12	VEA

Maxxam ID Q89282
Sample ID M0010-RUN1
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Semi-Volatile in Filters by Scan GC/MS	GC/MS	1163558	2007/02/10	2007/02/12	VEA

Maxxam ID Q89283
Sample ID M0010-RUN2
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Semi-Volatile in Filters by Scan GC/MS	GC/MS	1163558	2007/02/10	2007/02/12	VEA

Maxxam ID Q89284
Sample ID M0010-RUN3
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Semi-Volatile in Filters by Scan GC/MS	GC/MS	1163558	2007/02/10	2007/02/12	VEA

Maxxam Job #: A713295
Report Date: 2007/02/14TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:**GENERAL COMMENTS****ABNMS-F**

6pt calibration only 2 compounds above 20%RSD
Benzoic acid @ 26%RSD, Benzidine @ 72%RSD.
Benzidine not found in any samples.

Initial Run 07/02/12

Mspike below 50% internal std response criteria w/ carryover from high std...suspect syringe plug.
Spike below 50% internal std response criteria w/ still a bit of carryover from syringe plug.
Spike:dup only 1 of 6 internals below 50%, carryover eliminated.
Blank meets all criteria.
Q89281-00C (Sample blank) 1 of 6 internals below 50%, no positives.
Q89282-284 require dilutions and will be rerun to confirm positives due to aforementioned syringe problems.

Secondary Run 07/02/13

Mspike was rerun w/ no carryover, all criteria met.

Spike and spike dup reran w/ some internals above 200%. Native and surrogate recoveries were confirmed. Any carryover present in initial run did not affect data.

Q89281-00C reran w/ 4 of 6 internals above 200% and w/ similar results.

Q89282-283 required 5x dilutions for phenol.
Q89284 required 2x dilution for phenol and benzoic acid.
Mds raised accordingly.

Q89282-284 reran to confirm positives, only 282 showed possible signs of carryover in initial run.
All Q89282-00C data entered from rerun 07/02/13.

Results relate only to the items tested.

TD*X Associates LP
Attention: Carl Palmer
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report
Maxxam Job Number: GA713295

QA/QC Batch			Date Analyzed					
Num Init	QC Type	Parameter	yyyy/mm/dd	Value	%Recovery	Units	QC Limits	
1163558 VEA	Spiked Blank	2,4,6-Tribromophenol	2007/02/12		85	%	24 - 121	
	Spiked Blank DUP	2,4,6-Tribromophenol	2007/02/12		88	%	24 - 121	
	Spiked Blank	2-Fluorobiphenyl	2007/02/12		95	%	30 - 115	
	Spiked Blank DUP	2-Fluorobiphenyl	2007/02/12		90	%	30 - 115	
	Spiked Blank	2-Fluorophenol	2007/02/12		79	%	30 - 130	
	Spiked Blank DUP	2-Fluorophenol	2007/02/12		78	%	30 - 130	
	Spiked Blank	D14-Terphenyl (FS)	2007/02/12		106	%	18 - 137	
	Spiked Blank DUP	D14-Terphenyl (FS)	2007/02/12		100	%	18 - 137	
	Spiked Blank	D5-Nitrobenzene	2007/02/12		81	%	23 - 120	
	Spiked Blank DUP	D5-Nitrobenzene	2007/02/12		85	%	23 - 120	
	Spiked Blank	D5-Phenol	2007/02/12		89	%	24 - 113	
	Spiked Blank DUP	D5-Phenol	2007/02/12		85	%	24 - 113	
	Spiked Blank	1,2,4-Trichlorobenzene	2007/02/12	16, RDL=4	82	ug	40 - 125	
	Spiked Blank DUP	1,2,4-Trichlorobenzene	2007/02/12	17, RDL=4	87	ug	40 - 125	
	Spiked Blank	1,4-Dichlorobenzene	2007/02/12	16, RDL=4	81	ug	40 - 125	
	Spiked Blank DUP	1,4-Dichlorobenzene	2007/02/12	16, RDL=4	80	ug	40 - 125	
	Spiked Blank	2,4-Dinitrotoluene	2007/02/12	18, RDL=2	92	ug	40 - 125	
	Spiked Blank DUP	2,4-Dinitrotoluene	2007/02/12	17, RDL=2	86	ug	40 - 125	
	Spiked Blank	2-Chlorophenol	2007/02/12	35, RDL=5	87	ug	10 - 125	
	Spiked Blank DUP	2-Chlorophenol	2007/02/12	36, RDL=5	90	ug	10 - 125	
	Spiked Blank	4-Chloro-3-Methylphenol	2007/02/12	0, RDL=3	98	ug	N/A	
	Spiked Blank DUP	4-Chloro-3-Methylphenol	2007/02/12	0, RDL=3	97	ug	N/A	
	Spiked Blank	4-Nitrophenol	2007/02/12	34, RDL=7	86	ug	10 - 125	
	Spiked Blank DUP	4-Nitrophenol	2007/02/12	33, RDL=7	82	ug	10 - 125	
	Spiked Blank	Acenaphthene	2007/02/12	20, RDL=1	101	ug	40 - 125	
	Spiked Blank DUP	Acenaphthene	2007/02/12	19, RDL=1	95	ug	40 - 125	
	Spiked Blank	N-Nitroso-di-n-propylamine	2007/02/12	20, RDL=4	101	ug	40 - 125	
	Spiked Blank DUP	N-Nitroso-di-n-propylamine	2007/02/12	20, RDL=4	98	ug	40 - 125	
	Spiked Blank	Pentachlorophenol	2007/02/12	13, RDL=6	33	ug	10 - 125	
	Spiked Blank DUP	Pentachlorophenol	2007/02/12	0, RDL=6	12	ug	10 - 125	
	Spiked Blank	Phenol	2007/02/12	39, RDL=3	97	ug	10 - 125	
	Spiked Blank DUP	Phenol	2007/02/12	39, RDL=3	97	ug	10 - 125	
	Spiked Blank	Pyrene	2007/02/12	22.0, RDL=0.6	110	ug	40 - 125	
	Spiked Blank DUP	Pyrene	2007/02/12	19.4, RDL=0.6	97	ug	40 - 125	
	Method Blank	2,4,6-Tribromophenol	2007/02/12		72	%	24 - 121	
		2-Fluorobiphenyl	2007/02/12		80	%	30 - 115	
		2-Fluorophenol	2007/02/12		73	%	30 - 130	
		D14-Terphenyl (FS)	2007/02/12		87	%	18 - 137	
		D5-Nitrobenzene	2007/02/12		79	%	23 - 120	
		D5-Phenol	2007/02/12		84	%	24 - 113	
		1,2,4-Trichlorobenzene	2007/02/12	ND, RDL=4		ug		
		1,2-Dichlorobenzene	2007/02/12	ND, RDL=4		ug		
		1,3-Dichlorobenzene	2007/02/12	ND, RDL=4		ug		
		1,4-Dichlorobenzene	2007/02/12	ND, RDL=4		ug		
		1-Chloronaphthalene	2007/02/12	ND, RDL=4		ug		
		2,4,5-Trichlorophenol	2007/02/12	ND, RDL=4		ug		
		2,4,6-Trichlorophenol	2007/02/12	ND, RDL=3		ug		
		2,4-Dichlorophenol	2007/02/12	ND, RDL=3		ug		
		2,4-Dimethylphenol	2007/02/12	ND, RDL=4		ug		
		2,4-Dinitrophenol	2007/02/12	ND, RDL=10		ug		
		2,4-Dinitrotoluene	2007/02/12	ND, RDL=2		ug		
		2,6-Dinitrotoluene	2007/02/12	ND, RDL=3		ug		
		2-Chloronaphthalene	2007/02/12	ND, RDL=2		ug		
		2-Chlorophenol	2007/02/12	ND, RDL=5		ug		
		2-Methylnaphthalene	2007/02/12	ND, RDL=4		ug		

TD*X Associates LP
Attention: Carl Palmer
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report (Continued)

Maxxam Job Number: GA713295

QA/QC		Date		Value	%Recovery	Units	QC Limits
Batch	Num Init	QC Type	Parameter	Analyzed yyyy/mm/dd			
1163558 VEA		Method Blank	2-Methylphenol	2007/02/12	ND, RDL=4	ug	
			2-Nitroaniline	2007/02/12	ND, RDL=10	ug	
			2-Nitrophenol	2007/02/12	ND, RDL=3	ug	
			3 & 4-methylphenol	2007/02/12	ND, RDL=3	ug	
			3,3'-Dichlorobenzidine	2007/02/12	ND, RDL=5	ug	
			3-Nitroaniline	2007/02/12	ND, RDL=10	ug	
			4,6-Dinitro-2-methylphenol	2007/02/12	ND, RDL=8	ug	
			4-Bromophenyl phenyl ether	2007/02/12	ND, RDL=1	ug	
			4-Chloro-3-Methylphenol	2007/02/12	ND, RDL=3	ug	
			4-Chloroaniline	2007/02/12	ND, RDL=10	ug	
			4-Chlorophenyl phenyl ether	2007/02/12	ND, RDL=2	ug	
			4-Nitroaniline	2007/02/12	ND, RDL=10	ug	
			4-Nitrophenol	2007/02/12	ND, RDL=7	ug	
			Acenaphthene	2007/02/12	ND, RDL=1	ug	
			Acenaphthylene	2007/02/12	ND, RDL=1	ug	
			Aniline	2007/02/12	ND, RDL=10	ug	
			Anthracene	2007/02/12	ND, RDL=0.8	ug	
			Benzidine	2007/02/12	ND, RDL=40	ug	
			Benzo(a)anthracene	2007/02/12	ND, RDL=0.8	ug	
			Benzo(a)pyrene	2007/02/12	ND, RDL=1	ug	
			Benzo(b)fluoranthene	2007/02/12	ND, RDL=0.8	ug	
			Benzo(g,h,i)perylene	2007/02/12	ND, RDL=0.8	ug	
			Benzo(k)fluoranthene	2007/02/12	ND, RDL=1	ug	
			Benzoic Acid	2007/02/12	ND, RDL=10	ug	
			Benzyl Alcohol	2007/02/12	ND, RDL=4	ug	
			Benzyl butyl phthalate	2007/02/12	ND, RDL=1	ug	
			Biphenyl	2007/02/12	ND, RDL=4	ug	
			Bis(2-chloroethoxy)methane	2007/02/12	ND, RDL=3	ug	
			Bis(2-chloroethyl)ether	2007/02/12	ND, RDL=4	ug	
			Bis(2-chloroisopropyl)ether	2007/02/12	ND, RDL=3	ug	
			Bis(2-ethylhexyl)phthalate	2007/02/12	ND, RDL=6	ug	
			Carbazole	2007/02/12	ND, RDL=10	ug	
			Chrysene	2007/02/12	ND, RDL=0.8	ug	
			Dibenzo(a,h)anthracene	2007/02/12	ND, RDL=0.8	ug	
			Dibenzofuran	2007/02/12	ND, RDL=10	ug	
			Diethyl phthalate	2007/02/12	ND, RDL=2	ug	
			Dimethyl phthalate	2007/02/12	ND, RDL=2	ug	
			Di-N-butyl phthalate	2007/02/12	ND, RDL=2	ug	
			Di-N-octyl phthalate	2007/02/12	ND, RDL=2	ug	
			Fluoranthene	2007/02/12	ND, RDL=0.8	ug	
			Fluorene	2007/02/12	ND, RDL=0.8	ug	
			Hexachlorobenzene	2007/02/12	ND, RDL=4	ug	
			Hexachlorobutadiene	2007/02/12	ND, RDL=4	ug	
			Hexachlorocyclopentadiene	2007/02/12	ND, RDL=4	ug	
			Hexachloroethane	2007/02/12	ND, RDL=4	ug	
			Indeno(1,2,3-cd)pyrene	2007/02/12	ND, RDL=1	ug	
			Isophorone	2007/02/12	ND, RDL=8	ug	
			Naphthalene	2007/02/12	ND, RDL=1	ug	
			Nitrobenzene	2007/02/12	ND, RDL=4	ug	
			N-Nitrosodimethylamine	2007/02/12	ND, RDL=20	ug	
			N-Nitroso-di-n-propylamine	2007/02/12	ND, RDL=4	ug	
			N-Nitrosodiphenylamine	2007/02/12	ND, RDL=4	ug	
			Pentachlorophenol	2007/02/12	ND, RDL=6	ug	
			Phenanthrene	2007/02/12	ND, RDL=0.8	ug	
			Phenol	2007/02/12	ND, RDL=3	ug	

TD*X Associates LP
Attention: Carl Palmer
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report (Continued)

Maxxam Job Number: GA713295

QA/QC				Date				
Batch				Analyzed				
Num Init	QC Type	Parameter		yyyy/mm/dd	Value	%Recovery	Units	QC Limits
1163558	VEA	Method Blank	Pyrene	2007/02/12	ND, RDL=0.6		ug	
ND = Not detected								
SPIKE = Fortified sample								

Your Project #: 20705
Site: FBR

Attention: Carl Palmer
TD*X Associates LP
148 South Dowlen Rd
PMB 700
Beaumont, TX
USA 77707

Report Date: 2007/02/28

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: A713421
Received: 2007/02/10, 6:00

Sample Matrix: Air
Samples Received: 9

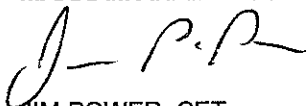
Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
VOST Analysis (M30/31)	1	N/A	2007/02/16	BRL SOP-00302	EPA 0030, 0031 mod
VOST Analysis (M30/31)	8	N/A	2007/02/20	BRL SOP-00302	EPA 0030, 0031 mod

Sample Matrix: SAMPLING TRAIN
Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
PCB Congeners in Air by HRMS - 1668A	4	2007/02/16	2007/02/20	BRL SOP-00408	EPA 1668A mod

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

MAXXAM ANALYTICS INC.



JIM POWER, CET
Project Manager

JP2/jp2
encl.

Total cover pages: 1

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89733			Q89751		
Sampling Date		2007/02/08			2007/02/08		
	Units	M0030-TUBE 1-R1 TX/TXC	RDL	QC Batch	M0030-TUBE 2-R1 TX/TXC	RDL	QC Batch
Dichlorodifluoromethane (FREON 12)	ug	0.17	0.02	1170332	ND	0.4	1169758
Chloromethane	ug	0.09	0.02	1170332	0.4	0.3	1169758
Vinyl Chloride	ug	ND	0.01	1170332	ND	0.3	1169758
Bromomethane	ug	0.03	0.02	1170332	ND	0.3	1169758
Chloroethane	ug	ND	0.009	1170332	ND	0.2	1169758
Trichlorofluoromethane (FREON 11)	ug	0.05	0.01	1170332	ND	0.2	1169758
Acetone (2-Propanone)	ug	3.53	0.05	1170332	5.3	0.9	1169758
1,1-Dichloroethylene	ug	ND	0.01	1170332	ND	0.2	1169758
Iodomethane	ug	ND	0.02	1170332	ND	0.3	1169758
Carbon Disulfide	ug	0.06	0.03	1170332	ND	0.5	1169758
Methylene Chloride(Dichloromethane)	ug	13.3	0.02	1170332	0.5	0.4	1169758
1,1-Dichloroethane	ug	ND	0.01	1170332	ND	0.2	1169758
Vinyl Acetate	ug	ND	0.02	1170332	ND	0.3	1169758
trans-1,2-Dichloroethylene	ug	ND	0.01	1170332	ND	0.2	1169758
cis-1,2-Dichloroethylene	ug	ND	0.01	1170332	ND	0.2	1169758
Chloroform	ug	ND	0.01	1170332	ND	0.2	1169758
1,2-Dichloroethane	ug	ND	0.007	1170332	ND	0.1	1169758
Methyl Ethyl Ketone (2-Butanone)	ug	1.94	0.04	1170332	1.1	0.7	1169758
1,1,1-Trichloroethane	ug	ND	0.01	1170332	ND	0.3	1169758
Carbon Tetrachloride	ug	ND	0.02	1170332	ND	0.3	1169758
Benzene	ug	6.35	0.009	1170332	11.2	0.2	1169758
1,1,2-Trichloroethane	ug	ND	0.02	1170332	ND	0.3	1169758
1,2-Dichloropropane	ug	ND	0.01	1170332	ND	0.2	1169758
Trichloroethylene	ug	ND	0.01	1170332	ND	0.2	1169758
Dibromomethane	ug	ND	0.01	1170332	ND	0.2	1169758
Bromodichloromethane	ug	0.04	0.01	1170332	ND	0.2	1169758
cis-1,3-Dichloropropene	ug	ND	0.01	1170332	ND	0.2	1169758
trans-1,3-Dichloropropene	ug	ND	0.007	1170332	ND	0.1	1169758
Dibromochloromethane	ug	0.064	0.009	1170332	ND	0.2	1169758
Methyl Isobutyl Ketone	ug	0.09	0.02	1170332	ND	0.4	1169758
Toluene	ug	1.35	0.01	1170332	3.6	0.3	1169758
Ethylene Dibromide	ug	ND	0.01	1170332	ND	0.2	1169758
Tetrachloroethylene	ug	ND	0.02	1170332	ND	0.4	1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89733			Q89751		
Sampling Date		2007/02/08			2007/02/08		
	Units	M0030-TUBE 1-R1 TX/TXC	RDL	QC Batch	M0030-TUBE 2-R1 TX/TXC	RDL	QC Batch
Chlorobenzene	ug	0.08	0.01	1170332	ND	0.2	1169758
1,1,1,2-Tetrachloroethane	ug	ND	0.01	1170332	ND	0.2	1169758
Ethylbenzene	ug	0.59	0.01	1170332	0.8	0.3	1169758
m / p-Xylene	ug	1.05	0.02	1170332	2.0	0.3	1169758
Styrene	ug	0.72	0.01	1170332	1.2	0.2	1169758
o-Xylene	ug	0.48	0.02	1170332	0.7	0.3	1169758
Bromoform	ug	ND	0.01	1170332	ND	0.3	1169758
1,1,2,2-Tetrachloroethane	ug	ND	0.01	1170332	ND	0.3	1169758
1,2,3-Trichloropropane	ug	ND	0.02	1170332	ND	0.3	1169758
1,3-Dichlorobenzene	ug	ND	0.02	1170332	ND	0.4	1169758
1,4-Dichlorobenzene	ug	ND	0.02	1170332	ND	0.4	1169758
1,2-Dichlorobenzene	ug	ND	0.02	1170332	ND	0.4	1169758
Surrogate Recovery (%)							
Bromofluorobenzene	%	122 (1)		1170332	66		1169758
D10-Ethylbenzene (FS)	%	157		1170332	118		1169758
D4-1,2-Dichloroethane	%	60		1170332	77		1169758
D8-Toluene	%	86		1170332	71		1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Please refer to General Comments page for specific clarification.							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89752	Q89753	Q89754	Q89755		
Sampling Date		2007/02/08	2007/02/08	2007/02/08	2007/02/08		
	Units	M0030-TUBE 3-R1 TX/TXC	M0030-TUBE 1-R2 TX/TXC	M0030-TUBE 2-R2 TX/TXC	M0030-TUBE 3-R2 TX/TXC	RDL	QC Batch
Dichlorodifluoromethane (FREON 12)	ug	ND	ND	ND	ND	0.4	1169758
Chloromethane	ug	ND	0.4	ND	ND	0.3	1169758
Vinyl Chloride	ug	ND	ND	ND	ND	0.3	1169758
Bromomethane	ug	ND	ND	ND	ND	0.3	1169758
Chloroethane	ug	ND	ND	ND	ND	0.2	1169758
Trichlorofluoromethane (FREON 11)	ug	ND	ND	ND	ND	0.2	1169758
Acetone (2-Propanone)	ug	3.7	3.6	3.8	3.5	0.9	1169758
1,1-Dichloroethylene	ug	ND	ND	ND	ND	0.2	1169758
Iodomethane	ug	ND	0.4	ND	ND	0.3	1169758
Carbon Disulfide	ug	ND	ND	ND	ND	0.5	1169758
Methylene Chloride(Dichloromethane)	ug	ND	0.7	8.6	ND	0.4	1169758
1,1-Dichloroethane	ug	ND	ND	ND	ND	0.2	1169758
Vinyl Acetate	ug	ND	ND	ND	ND	0.3	1169758
trans-1,2-Dichloroethylene	ug	ND	ND	ND	ND	0.2	1169758
cis-1,2-Dichloroethylene	ug	ND	ND	ND	ND	0.2	1169758
Chloroform	ug	ND	ND	ND	ND	0.2	1169758
1,2-Dichloroethane	ug	ND	ND	ND	ND	0.1	1169758
Methyl Ethyl Ketone (2-Butanone)	ug	0.9	ND	0.8	1.4	0.7	1169758
1,1,1-Trichloroethane	ug	ND	ND	ND	ND	0.3	1169758
Carbon Tetrachloride	ug	ND	ND	ND	ND	0.3	1169758
Benzene	ug	8.4	7.3	6.8	9.8	0.2	1169758
1,1,2-Trichloroethane	ug	ND	ND	ND	ND	0.3	1169758
1,2-Dichloropropane	ug	ND	ND	ND	ND	0.2	1169758
Trichloroethylene	ug	ND	ND	ND	ND	0.2	1169758
Dibromomethane	ug	ND	ND	ND	ND	0.2	1169758
Bromodichloromethane	ug	ND	ND	ND	ND	0.2	1169758
cis-1,3-Dichloropropene	ug	ND	ND	ND	ND	0.2	1169758
trans-1,3-Dichloropropene	ug	ND	ND	ND	ND	0.1	1169758
Dibromochloromethane	ug	ND	ND	ND	ND	0.2	1169758
Methyl Isobutyl Ketone	ug	ND	ND	ND	ND	0.4	1169758
Toluene	ug	2.6	2.4	3.3	2.5	0.3	1169758
Ethylene Dibromide	ug	ND	ND	ND	ND	0.2	1169758
Tetrachloroethylene	ug	ND	ND	ND	ND	0.4	1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89752	Q89753	Q89754	Q89755		
Sampling Date		2007/02/08	2007/02/08	2007/02/08	2007/02/08		
	Units	M0030-TUBE 3-R1 TX/TXC	M0030-TUBE 1-R2 TX/TXC	M0030-TUBE 2-R2 TX/TXC	M0030-TUBE 3-R2 TX/TXC	RDL	QC Batch
Chlorobenzene	ug	ND	ND	ND	ND	0.2	1169758
1,1,1,2-Tetrachloroethane	ug	ND	ND	ND	ND	0.2	1169758
Ethylbenzene	ug	0.6	0.6	0.4	0.7	0.3	1169758
m / p-Xylene	ug	1.5	1.3	0.9	1.7	0.3	1169758
Styrene	ug	0.9	0.8	0.5	1.0	0.2	1169758
o-Xylene	ug	0.5	0.5	0.4	0.7	0.3	1169758
Bromoform	ug	ND	ND	ND	ND	0.3	1169758
1,1,2,2-Tetrachloroethane	ug	ND	ND	ND	ND	0.3	1169758
1,2,3-Trichloropropane	ug	ND	ND	ND	ND	0.3	1169758
1,3-Dichlorobenzene	ug	ND	ND	ND	ND	0.4	1169758
1,4-Dichlorobenzene	ug	ND	ND	ND	ND	0.4	1169758
1,2-Dichlorobenzene	ug	ND	ND	ND	ND	0.4	1169758
Surrogate Recovery (%)							
Bromofluorobenzene	%	57	52 (1)	86	58		1169758
D10-Ethylbenzene (FS)	%	113	108	60	169		1169758
D4-1,2-Dichloroethane	%	68	88	105	80		1169758
D8-Toluene	%	69	56 (1)	108	62 (1)		1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Please refer to General Comments page for specific clarification.							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89756		Q89757		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0030-TUBE 1-R3 TX/TXC	RDL	M0030-TUBE 2-R3 TX/TXC	RDL	QC Batch
Dichlorodifluoromethane (FREON 12)	ug	ND	0.4	ND	0.4	1169758
Chloromethane	ug	ND	0.3	ND	0.3	1169758
Vinyl Chloride	ug	ND	0.3	ND	0.3	1169758
Bromomethane	ug	ND	0.3	ND	0.3	1169758
Chloroethane	ug	ND	0.2	ND	0.2	1169758
Trichlorofluoromethane (FREON 11)	ug	ND	0.2	ND	0.2	1169758
Acetone (2-Propanone)	ug	2.9	0.9	5	1	1169758
1,1-Dichloroethylene	ug	ND	0.2	ND	0.2	1169758
Iodomethane	ug	ND	0.3	ND	0.3	1169758
Carbon Disulfide	ug	ND	0.5	ND	0.6	1169758
Methylene Chloride(Dichloromethane)	ug	3.0	0.4	3.7	0.4	1169758
1,1-Dichloroethane	ug	ND	0.2	ND	0.3	1169758
Vinyl Acetate	ug	ND	0.3	ND	0.3	1169758
trans-1,2-Dichloroethylene	ug	ND	0.2	ND	0.2	1169758
cis-1,2-Dichloroethylene	ug	ND	0.2	ND	0.2	1169758
Chloroform	ug	ND	0.2	ND	0.2	1169758
1,2-Dichloroethane	ug	ND	0.1	ND	0.2	1169758
Methyl Ethyl Ketone (2-Butanone)	ug	0.8	0.7	1.0	0.8	1169758
1,1,1-Trichloroethane	ug	ND	0.3	ND	0.3	1169758
Carbon Tetrachloride	ug	ND	0.3	ND	0.4	1169758
Benzene	ug	8.7	0.2	10.4	0.2	1169758
1,1,2-Trichloroethane	ug	ND	0.3	ND	0.4	1169758
1,2-Dichloropropane	ug	ND	0.2	ND	0.2	1169758
Trichloroethylene	ug	ND	0.2	ND	0.2	1169758
Dibromomethane	ug	ND	0.2	ND	0.2	1169758
Bromodichloromethane	ug	ND	0.2	ND	0.2	1169758
cis-1,3-Dichloropropene	ug	ND	0.2	ND	0.2	1169758
trans-1,3-Dichloropropene	ug	ND	0.1	ND	0.2	1169758
Dibromochloromethane	ug	ND	0.2	ND	0.2	1169758
Methyl Isobutyl Ketone	ug	ND	0.4	ND	0.4	1169758
Toluene	ug	3.7	0.3	3.5	0.3	1169758
Ethylene Dibromide	ug	ND	0.2	ND	0.2	1169758
Tetrachloroethylene	ug	ND	0.4	ND	0.4	1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch						

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89756		Q89757		
Sampling Date		2007/02/08		2007/02/08		
	Units	M0030-TUBE 1-R3 TX/TXC	RDL	M0030-TUBE 2-R3 TX/TXC	RDL	QC Batch
Chlorobenzene	ug	ND	0.2	ND	0.2	1169758
1,1,1,2-Tetrachloroethane	ug	ND	0.2	ND	0.2	1169758
Ethylbenzene	ug	0.8	0.3	0.6	0.3	1169758
m / p-Xylene	ug	2.0	0.3	2.0	0.3	1169758
Styrene	ug	1.0	0.2	0.7	0.3	1169758
o-Xylene	ug	0.8	0.3	0.8	0.3	1169758
Bromoform	ug	ND	0.3	ND	0.3	1169758
1,1,2,2-Tetrachloroethane	ug	ND	0.3	ND	0.3	1169758
1,2,3-Trichloropropane	ug	ND	0.3	ND	0.3	1169758
1,3-Dichlorobenzene	ug	ND	0.4	ND	0.4	1169758
1,4-Dichlorobenzene	ug	ND	0.4	ND	0.4	1169758
1,2-Dichlorobenzene	ug	ND	0.4	ND	0.4	1169758
Surrogate Recovery (%)						
Bromofluorobenzene	%	123 (1)				1169758
D10-Ethylbenzene (FS)	%	116		83		1169758
D4-1,2-Dichloroethane	%	137				1169758
D8-Toluene	%	140 (1)				1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch (1) Please refer to General Comments page for specific clarification.						

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89758		
Sampling Date		2007/02/08		
	Units	M0030-TUBE 3-R3 TX/TXC	RDL	QC Batch
Dichlorodifluoromethane (FREON 12)	ug	ND	0.4	1169758
Chloromethane	ug	0.5	0.3	1169758
Vinyl Chloride	ug	ND	0.3	1169758
Bromomethane	ug	ND	0.3	1169758
Chloroethane	ug	ND	0.2	1169758
Trichlorofluoromethane (FREON 11)	ug	ND	0.2	1169758
Acetone (2-Propanone)	ug	7.5	0.9	1169758
1,1-Dichloroethylene	ug	ND	0.2	1169758
Iodomethane	ug	ND	0.3	1169758
Carbon Disulfide	ug	2.3	0.5	1169758
Methylene Chloride(Dichloromethane)	ug	75.5	0.4	1169758
1,1-Dichloroethane	ug	ND	0.2	1169758
Vinyl Acetate	ug	ND	0.3	1169758
trans-1,2-Dichloroethylene	ug	ND	0.2	1169758
cis-1,2-Dichloroethylene	ug	ND	0.2	1169758
Chloroform	ug	ND	0.2	1169758
1,2-Dichloroethane	ug	ND	0.1	1169758
Methyl Ethyl Ketone (2-Butanone)	ug	ND	0.7	1169758
1,1,1-Trichloroethane	ug	ND	0.3	1169758
Carbon Tetrachloride	ug	ND	0.3	1169758
Benzene	ug	13.3	0.2	1169758
1,1,2-Trichloroethane	ug	ND	0.3	1169758
1,2-Dichloropropane	ug	ND	0.2	1169758
Trichloroethylene	ug	ND	0.2	1169758
Dibromomethane	ug	ND	0.2	1169758
Bromodichloromethane	ug	ND	0.2	1169758
cis-1,3-Dichloropropene	ug	ND	0.2	1169758
trans-1,3-Dichloropropene	ug	ND	0.1	1169758
Dibromochloromethane	ug	ND	0.2	1169758
Methyl Isobutyl Ketone	ug	ND	0.4	1169758
Toluene	ug	3.0	0.3	1169758
Ethylene Dibromide	ug	ND	0.2	1169758
Tetrachloroethylene	ug	ND	0.4	1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		Q89758		
Sampling Date		2007/02/08		
	Units	M0030-TUBE 3-R3 TX/TXC	RDL	QC Batch
Chlorobenzene	ug	ND	0.2	1169758
1,1,1,2-Tetrachloroethane	ug	ND	0.2	1169758
Ethylbenzene	ug	0.6	0.3	1169758
m / p-Xylene	ug	1.9	0.3	1169758
Styrene	ug	0.5	0.2	1169758
o-Xylene	ug	0.7	0.3	1169758
Bromoform	ug	ND	0.3	1169758
1,1,2,2-Tetrachloroethane	ug	ND	0.3	1169758
1,2,3-Trichloropropane	ug	ND	0.3	1169758
1,3-Dichlorobenzene	ug	ND	0.4	1169758
1,4-Dichlorobenzene	ug	ND	0.4	1169758
1,2-Dichlorobenzene	ug	ND	0.4	1169758
Surrogate Recovery (%)				
Bromofluorobenzene	%	67		1169758
D10-Ethylbenzene (FS)	%	121		1169758
D4-1,2-Dichloroethane	%	75		1169758
D8-Toluene	%	91		1169758
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch				

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

RESULTS OF ANALYSES OF SAMPLING TRAIN

Maxxam ID		Q89659					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng	0.037	0.025				1167038
3-MonoCB-(2)	ng	ND	0.029				1167038
4-MonoCB-(3)	ng	ND	0.027				1167038
2,2'-DiCB-(4)	ng	ND	0.23				1167038
2,3-DiCB-(5)	ng	ND	0.48				1167038
2,3'-DiCB-(6)	ng	ND	0.45				1167038
2,4-DiCB-(7)	ng	ND	0.47				1167038
2,4'-DiCB-(8)	ng	ND	0.44				1167038
2,5-DiCB-(9)	ng	ND	0.47				1167038
2,6-DiCB-(10)	ng	ND	0.19				1167038
3,3'-DiCB-(11)	ng	ND	0.51				1167038
DiCB-(12)+(13)	ng	ND	0.48				1167038
3,5-DiCB-(14)	ng	ND	0.48				1167038
4,4'-DiCB-(15)	ng	ND	0.58				1167038
2,2',3-TriCB-(16)	ng	ND	0.11				1167038
2,2',4-TriCB-(17)	ng	ND	0.075				1167038
TriCB-(18)+(30)	ng	0.104	0.063				1167038
2,2',6-TriCB-(19)	ng	ND	0.079				1167038
TriCB-(20) + (28)	ng	0.127	0.026				1167038
TriCB-(21)+(33)	ng	ND	0.078				1167038
2,3,4'-TriCB-(22)	ng	0.073	0.028				1167038
2,3,5-TriCB-(23)	ng	ND	0.027				1167038
2,3,6-TriCB-(24)	ng	ND	0.053				1167038
2,3',4-TriCB-(25)	ng	ND	0.026				1167038
TriCB-(26)+(29)	ng	0.034	0.025				1167038
2,3',6-TriCB-(27)	ng	ND	0.059				1167038
2,4',5-TriCB-(31)	ng	0.146	0.025				1167038
2,4',6-TriCB-(32)	ng	ND	0.054				1167038
2,3',5-TriCB-(34)	ng	ND	0.027				1167038
3,3',4-TriCB-(35)	ng	ND	0.030				1167038
3,3',5-TriCB-(36)	ng	ND	0.025				1167038
3,4,4'-TriCB-(37)	ng	ND	0.034				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, Total Toxic Equivalency = The sum of all TEQs							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

RESULTS OF ANALYSES OF SAMPLING TRAIN

Maxxam ID		Q89659					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
345-TriCB-(38)	ng	ND	0.028				1167038
34'5-TriCB-(39)	ng	ND	0.026				1167038
TetraCB-(40)+(41)+(71)	ng	ND	0.11				1167038
22'34'-TetraCB-(42)	ng	ND	0.13				1167038
22'35-TetraCB-(43)	ng	ND	0.15				1167038
TetraCB-(44)+(47)+(65)	ng	0.29	0.10				1167038
TetraCB-(45)+(51)	ng	ND	0.11				1167038
22'36'-TetraCB-(46)	ng	ND	0.13				1167038
22'45-TetraCB-(48)	ng	ND	0.11				1167038
TetraCB-(49)+TetraCB-(69)	ng	0.173	0.098				1167038
TetraCB-(50)+(53)	ng	ND	0.11				1167038
22'55'-TetraCB-(52)	ng	0.70	0.12				1167038
22'66'-TetraCB-(54)	ng	ND	0.019				1167038
233'4-TetraCB-(55)	ng	ND	0.031				1167038
233'4'-Tetra CB(56)	ng	0.049	0.034				1167038
233'5-TetraCB-(57)	ng	ND	0.032				1167038
233'5'-TetraCB-(58)	ng	ND	0.031				1167038
TetraCB-(59)+(62)+(75)	ng	ND	0.082				1167038
2344'-TetraCB -(60)	ng	ND	0.032				1167038
TetraCB-(61)+(70)+(74)+(76)	ng	0.359	0.031				1167038
234'5-TetraCB-(63)	ng	ND	0.029				1167038
234'6-TetraCB-(64)	ng	ND	0.088				1167038
23'44'-TetraCB-(66)	ng	0.109	0.031				1167038
23'45-TetraCB-(67)	ng	ND	0.029				1167038
23'45'-TetraCB-(68)	ng	ND	0.028				1167038
23'55'-TetraCB-(72)	ng	ND	0.029				1167038
23'5'6-TetraCB-(73)	ng	ND	0.075				1167038
33'44'-TetraCB-(77)	ng	ND	0.034	0.000100	0.00000340		1167038
33'45-TetraCB-(78)	ng	ND	0.034				1167038
33'45'-TetraCB(79)	ng	ND	0.029				1167038
33'55'-TetraCB-(80)	ng	ND	0.027				1167038
344'5-TetraCB-(81)	ng	ND	0.036	0.000100	0.00000360		1167038
22'33'4-PentaCB-(82)	ng	0.058	0.050				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89659					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(83)+(99)	ng	0.310	0.044				1167038
22'33'6-PentaCB-(84)	ng	ND	0.17				1167038
PentaCB-(85)+(116)+(117)	ng	ND	0.086				1167038
PentaCB-(86)(87)(97)(109)(119)(125)	ng	0.491	0.037				1167038
PentaCB-(88)+(91)	ng	ND	0.090				1167038
22'346'-PentaCB-(89)	ng	ND	0.048				1167038
PentaCB-(90)+(101)+(113)	ng	0.814	0.038				1167038
22'355'-PentaCB-(92)	ng	0.145	0.045				1167038
PentaCB-(93)+(98)+(100)+(102)	ng	ND	0.039				1167038
22'356'-PentaCB-(94)	ng	ND	0.047				1167038
22'356'-PentaCB-(95)	ng	0.707	0.043				1167038
22'366'-PentaCB-(96)	ng	ND	0.021				1167038
22'45'6-PentaCB-(103)	ng	ND	0.040				1167038
22'466'-PentaCB-(104)	ng	ND	0.021				1167038
233'44'-PentaCB-(105)	ng	ND	0.11	0.000100	0.0000110		1167038
233'45'-PentaCB-(106)	ng	ND	0.039				1167038
233'4'5-PentaCB-(107)	ng	ND	0.033				1167038
PentaCB-(108)+(124)	ng	ND	0.038				1167038
PentaCB-(110)+(115)	ng	0.751	0.036				1167038
233'55'-PentaCB-(111)	ng	ND	0.033				1167038
233'56'-PentaCB-(112)	ng	ND	0.033				1167038
2344'5-PentaCB-(114)	ng	ND	0.040	0.000500	0.0000200		1167038
23'44'5-PentaCB-(118)	ng	0.396	0.039	0.000100	0.0000396		1167038
23'455'-PentaCB-(120)	ng	ND	0.032				1167038
23'45'6-PentaCB-(121)	ng	ND	0.032				1167038
233'4'5'-PentaCB-(122)	ng	ND	0.042				1167038
23'44'5'-PentaCB-(123)	ng	ND	0.040	0.000100	0.00000400		1167038
33'44'5-PentaCB-(126)	ng	ND	0.037	0.100	0.00370		1167038
33'455'-PentaCB-(127)	ng	ND	0.041				1167038
HexaCB-(128)+(166)	ng	0.062	0.056				1167038
HexaCB-(129)+(138)+(163)	ng	0.543	0.060				1167038
22'33'45'-HexaCB-(130)	ng	ND	0.072				1167038
22'33'46'-HexaCB-(131)	ng	ND	0.074				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89659					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'46'-HexaCB-(132)	ng	0.233	0.069				1167038
22'33'55'-HexaCB-(133)	ng	ND	0.066				1167038
HexaCB-(134)+(143)	ng	ND	0.071				1167038
HexaCB-(135)+(151)	ng	0.275	0.026				1167038
22'33'66'-HexaCB-(136)	ng	0.101	0.020				1167038
22'344'5'-HexaCB-(137)	ng	ND	0.068				1167038
HexaCB-(139)+(140)	ng	ND	0.059				1167038
22'3455'-HexaCB-(141)	ng	ND	0.090				1167038
22'3456'-HexaCB-(142)	ng	ND	0.069				1167038
22'345'6'-HexaCB-(144)	ng	ND	0.036				1167038
22'3466'-HexaCB-(145)	ng	ND	0.020				1167038
22'34'55'-HexaCB-(146)	ng	0.098	0.056				1167038
HexaCB-(147)+(149)	ng	0.511	0.059				1167038
22'34'56'-HexaCB-(148)	ng	ND	0.026				1167038
22'34'66'-HexaCB-(150)	ng	ND	0.020				1167038
22'3566'-HexaCB-(152)	ng	ND	0.020				1167038
HexaCB-(153)+(168)	ng	0.446	0.050				1167038
22'44'56'-HexaCB-(154)	ng	ND	0.022				1167038
22'44'66'-HexaCB-(155)	ng	ND	0.023				1167038
HexaCB-(156)+(157)	ng	0.056	0.044	0.000500	0.0000280		1167038
233'44'6'-HexaCB-(158)	ng	ND	0.048				1167038
233'455'-HexaCB-(159)	ng	ND	0.043				1167038
233'456'-HexaCB-(160)	ng	ND	0.053				1167038
233'45'6'-HexaCB-(161)	ng	ND	0.049				1167038
233'4'55'-HexaCB-(162)	ng	ND	0.042				1167038
233'4'5'6'-HexaCB-(164)	ng	ND	0.046				1167038
233'55'6'-HexaCB-(165)	ng	ND	0.051				1167038
23'44'55'-HexaCB-(167)	ng	ND	0.044	0.0000100	0.000000440		1167038
33'44'55'-HexaCB-(169)	ng	ND	0.046	0.0100	0.000460		1167038
22'33'44'5'-HeptaCB-(170)	ng	0.109	0.051				1167038
HeptaCB-(171)+(173)	ng	ND	0.057				1167038
22'33'455'-HeptaCB-(172)	ng	ND	0.059				1167038
22'33'456'-HeptaCB-(174)	ng	0.102	0.054				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'45'6'-HeptaCB-(175)	ng	ND	0.033				1167038
22'33'46'6'-HeptaCB-(176)	ng	ND	0.025				1167038
22'33'45'6'-HeptaCB-(177)	ng	ND	0.060				1167038
22'33'55'6'-HeptaCB-(178)	ng	ND	0.034				1167038
22'33'56'6'-HeptaCB-(179)	ng	0.054	0.025				1167038
HeptaCB-(180)+(193)	ng	0.217	0.044				1167038
22'344'56'-HeptaCB-(181)	ng	ND	0.055				1167038
22'344'56'-HeptaCB-(182)	ng	ND	0.031				1167038
22'344'5'6'-HeptaCB-(183)	ng	0.064	0.052				1167038
22'344'66'-HeptaCB-(184)	ng	ND	0.023				1167038
22'3455'6'-HeptaCB-(185)	ng	ND	0.052				1167038
22'34566'-HeptaCB-(186)	ng	ND	0.026				1167038
22'34'55'6'-HeptaCB-(187)	ng	0.105	0.031				1167038
22'34'566'-HeptaCB-(188)	ng	ND	0.031				1167038
233'44'55'-HeptaCB-(189)	ng	ND	0.054	0.000100	0.00000540		1167038
233'44'56'-HeptaCB-(190)	ng	ND	0.045				1167038
233'44'5'6'-HeptaCB-(191)	ng	ND	0.045				1167038
233'455'6'-HeptaCB-(192)	ng	ND	0.047				1167038
22'33'44'55'-OctaCB-(194)	ng	ND	0.058				1167038
22'33'44'56'-OctaCB-(195)	ng	ND	0.061				1167038
22'33'44'56'-OctaCB-(196)	ng	ND	0.054				1167038
22'33'44'66'-OctaCB-(197)	ng	ND	0.036				1167038
OctaCB-(198)+(199)	ng	ND	0.052				1167038
22'33'4566'-OctaCB-(200)	ng	ND	0.042				1167038
22'33'45'66'-OctaCB-(201)	ng	ND	0.039				1167038
22'33'55'66'-OctaCB-(202)	ng	ND	0.047				1167038
22'344'55'6'-OctaCB-(203)	ng	ND	0.048				1167038
22'344'566'-OctaCB-(204)	ng	ND	0.040				1167038
233'44'55'6'-OctaCB-(205)	ng	ND	0.045				1167038
22'33'44'55'6'-NonaCB-(206)	ng	ND	0.047				1167038
22'33'44'566'-NonaCB-(207)	ng	ND	0.043				1167038
22'33'455'66'-NonaCB-(208)	ng	ND	0.047				1167038
DecaCB-(209)	ng	ND	0.046				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89659					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY		# of	
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
Monochlorobiphenyl	ng	0.037	0.029				1167038
Dichlorobiphenyl	ng	ND	0.58				1167038
Trichlorobiphenyl	ng	0.48	0.11				1167038
Tetrachlorobiphenyl	ng	1.68	0.15				1167038
Pentachlorobiphenyl	ng	3.67	0.050				1167038
Hexachlorobiphenyl	ng	2.33	0.074				1167038
Heptachlorobiphenyl	ng	0.651	0.060				1167038
Octachlorobiphenyl	ng	ND	0.061				1167038
Nonachlorobiphenyl	ng	ND	0.047				1167038
Decachlorobiphenyl	ng	ND	0.046				1167038
TOTAL TOXIC EQUIVALENCY	ng				0.00428		
Surrogate Recovery (%)							
C13-2,44'-TriCB-(28)	%	86					1167038
C13-22'33'44'55'6'-NonaCB-(206)	%	103					1167038
C13-22'33'44'5'-HeptaCB-(170)	%	94					1167038
C13-22'33'455'66'-NonaCB-(208)	%	99					1167038
C13-22'33'55'66'-OctaCB-(202)	%	86					1167038
C13-22'33'55'6'-HeptaCB-(178)	%	97					1167038
C13-22'344'55'-HeptaCB-(180)	%	90					1167038
C13-22'34'566'-HeptaCB-(188)	%	80					1167038
C13-22'44'66'-HexaCB-(155)	%	89					1167038
C13-22'466'-PentaCB-(104)	%	86					1167038
C13-22'66'-TetraCB-(54)	%	75					1167038
C13-22'6'-TriCB-(19)	%	87					1167038
C13-22'-DiCB-(4)	%	85					1167038
C13-233'44'55'6'-OctaCB-(205)	%	91					1167038
C13-233'44'55'-HeptaCB-(189)	%	93					1167038
C13-233'44'-PentaCB-(105)	%	92					1167038
C13-233'55'-PentaCB-(111)	%	94					1167038
C13-23'44'55'-HexaCB-(167)	%	97					1167038
C13-2344'5'-PentaCB-(114)	%	89					1167038
C13-23'44'5'-PentaCB-(118)	%	91					1167038
C13-2'344'5'-PentaCB-(123)	%	88					1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89659					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-BLANK	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
C13-2-MonoCB-(1)	%	61					1167038
C13-33'44'55'-HexaCB-(169)	%	93					1167038
C13-33'44'5-PentaCB-(126)	%	90					1167038
C13-33'44'-TetraCB-(77)	%	85					1167038
C13-344'5-TetraCB-(81)	%	88					1167038
C13-344'-TriCB-(37)	%	76					1167038
C13-44'-DiCB-(15)	%	80					1167038
C13-4-MonoCB-(3)	%	62					1167038
C13-DecaCB-(209)	%	93					1167038
C13-HexaCB-(156)+(157)	%	92					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89660					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng	220	0.10				1167038
3-MonoCB-(2)	ng	128	0.12				1167038
4-MonoCB-(3)	ng	206	0.11				1167038
22'-DiCB-(4)	ng	210	0.40				1167038
2,3-DiCB-(5)	ng	10.2	0.43				1167038
2,3'-DiCB-(6)	ng	116	0.40				1167038
2,4-DiCB-(7)	ng	48.1	0.42				1167038
2,4'-DiCB-(8)	ng	250	0.40				1167038
2,5-DiCB-(9)	ng	69.2	0.42				1167038
2,6-DiCB-(10)	ng	24.7	0.33				1167038
3,3'-DiCB-(11)	ng	33.5	0.46				1167038
DiCB-(12)+(13)	ng	97.6	0.43				1167038
3,5-DiCB-(14)	ng	0.98	0.43				1167038
4,4'-DiCB-(15)	ng	209	0.52				1167038
22'3-TriCB-(16)	ng	148	0.061				1167038
22'4-TriCB-(17)	ng	144	0.042				1167038
TriCB-(18)+(30)	ng	300	0.035				1167038
22'6-TriCB-(19)	ng	65.2	0.045				1167038
TriCB-(20) + (28)	ng	453	0.23				1167038
TriCB-(21)+(33)	ng	129	0.23				1167038
234'-TriCB-(22)	ng	129	0.25				1167038
235-TriCB-(23)	ng	0.67	0.24				1167038
236-TriCB-(24)	ng	6.03	0.030				1167038
23'4-TriCB-(25)	ng	42.2	0.23				1167038
TriCB-(26)+(29)	ng	86.9	0.22				1167038
23'6-TriCB-(27)	ng	22.1	0.033				1167038
24'5-TriCB-(31)	ng	322	0.22				1167038
24'6-TriCB-(32)	ng	118	0.030				1167038
23'5-TriCB-(34)	ng	1.91	0.24				1167038
33'4-TriCB-(35)	ng	21.4	0.26				1167038
33'5-TriCB-(36)	ng	0.71	0.22				1167038
344'-TriCB-(37)	ng	122	0.30				1167038
345-TriCB-(38)	ng	0.43	0.25				1167038
34'5-TriCB-(39)	ng	2.48	0.23				1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89660					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
TetraCB-(40)+(41)+(71)	ng	160	0.071				1167038
22'34'-TetraCB-(42)	ng	ND	0.085				1167038
22'35'-TetraCB-(43)	ng	13.0	0.096				1167038
TetraCB-(44)+(47)+(65)	ng	293	0.067				1167038
TetraCB-(45)+(51)	ng	63.5	0.075				1167038
22'36'-TetraCB-(46)	ng	24.5	0.082				1167038
22'45'-TetraCB-(48)	ng	63.7	0.073				1167038
TetraCB-(49)+TetraCB-(69)	ng	182	0.064				1167038
TetraCB-(50)+(53)	ng	56.4	0.071				1167038
22'55'-TetraCB-(52)	ng	318	0.076				1167038
22'66'-TetraCB-(54)	ng	2.06	0.041				1167038
233'4'-TetraCB-(55)	ng	3.63	0.13				1167038
233'4'-Tetra CB(56)	ng	84.4	0.14				1167038
233'5'-TetraCB-(57)	ng	1.42	0.13				1167038
233'5'-TetraCB-(58)	ng	ND	0.13				1167038
TetraCB-(59)+(62)+(75)	ng	58.2	0.054				1167038
2344'-TetraCB -(60)	ng	46.5	0.13				1167038
TetraCB-(61)+(70)+(74)+(76)	ng	380	0.12				1167038
234'5'-TetraCB-(63)	ng	9.28	0.12				1167038
234'6'-TetraCB-(64)	ng	154	0.058				1167038
23'44'-TetraCB-(66)	ng	209	0.12				1167038
23'45'-TetraCB-(67)	ng	9.72	0.12				1167038
23'45'-TetraCB-(68)	ng	1.95	0.11				1167038
23'55'-TetraCB-(72)	ng	1.92	0.12				1167038
23'56'-TetraCB-(73)	ng	ND	0.049				1167038
33'44'-TetraCB-(77)	ng	22.8	0.14	0.000100	0.00228		1167038
33'45'-TetraCB-(78)	ng	0.21	0.14				1167038
33'45'-TetraCB(79)	ng	ND	2.8				1167038
33'55'-TetraCB-(80)	ng	ND	0.11				1167038
344'5'-TetraCB-(81)	ng	1.08	0.14	0.000100	0.000108		1167038
22'33'4'-PentaCB-(82)	ng	23.7	0.11				1167038
PentaCB-(83)+(99)	ng	85.0	0.096				1167038
22'33'6'-PentaCB-(84)	ng	49.1	0.10				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89660					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
PentaCB-(85)+(116)+(117)	ng	29.1	0.076				1167038
PentaCB-(86)(87)(97)(109)(119)(125)	ng	100	0.080				1167038
PentaCB-(88)+(91)	ng	30.1	0.095				1167038
22'346'-PentaCB-(89)	ng	ND	0.27				1167038
PentaCB-(90)+(101)+(113)	ng	123	0.082				1167038
22'355'-PentaCB-(92)	ng	22.5	0.096				1167038
PentaCB-(93)+(98)+(100)+(102)	ng	11.7	0.095				1167038
22'356'-PentaCB-(94)	ng	1.43	0.10				1167038
22'356'-PentaCB-(95)	ng	118	0.093				1167038
22'366'-PentaCB-(96)	ng	3.49	0.029				1167038
22'456'-PentaCB-(103)	ng	1.27	0.086				1167038
22'466'-PentaCB-(104)	ng	ND	0.050				1167038
233'44'-PentaCB-(105)	ng	40.7	0.19	0.000100	0.00407		1167038
233'45'-PentaCB-(106)	ng	ND	0.20				1167038
233'45'-PentaCB-(107)	ng	7.68	0.16				1167038
PentaCB-(108)+(124)	ng	3.75	0.19				1167038
PentaCB-(110)+(115)	ng	157	0.078				1167038
233'55'-PentaCB-(111)	ng	ND	0.070				1167038
233'56'-PentaCB-(112)	ng	ND	0.070				1167038
2344'5'-PentaCB-(114)	ng	3.09	0.20	0.000500	0.00155		1167038
23'44'5'-PentaCB-(118)	ng	102	0.20	0.000100	0.0102		1167038
23'455'-PentaCB-(120)	ng	0.461	0.070				1167038
23'456'-PentaCB-(121)	ng	ND	0.070				1167038
233'4'5'-PentaCB-(122)	ng	1.82	0.21				1167038
23'44'5'-PentaCB-(123)	ng	1.80	0.20	0.000100	0.000180		1167038
33'44'5'-PentaCB-(126)	ng	0.62	0.19	0.100	0.0620		1167038
33'455'-PentaCB-(127)	ng	ND	0.21				1167038
HexaCB-(128)+(166)	ng	12.0	0.13				1167038
HexaCB-(129)+(138)+(163)	ng	88.5	0.14				1167038
22'33'45'-HexaCB-(130)	ng	5.86	0.17				1167038
22'33'46'-HexaCB-(131)	ng	1.44	0.17				1167038
22'33'46'-HexaCB-(132)	ng	35.3	0.16				1167038
22'33'55'-HexaCB-(133)	ng	1.20	0.15				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
HexaCB-(134)+(143)	ng	4.51	0.17				1167038
HexaCB-(135)+(151)	ng	29.1	0.037				1167038
22'33'66'-HexaCB-(136)	ng	14.6	0.028				1167038
22'344'5'-HexaCB-(137)	ng	3.96	0.16				1167038
HexaCB-(139)+(140)	ng	1.80	0.14				1167038
22'3455'-HexaCB-(141)	ng	13.6	0.14				1167038
22'3456'-HexaCB-(142)	ng	ND	0.16				1167038
22'345'6'-HexaCB-(144)	ng	4.03	0.038				1167038
22'3466'-HexaCB-(145)	ng	0.066	0.029				1167038
22'34'55'-HexaCB-(146)	ng	11.7	0.13				1167038
HexaCB-(147)+(149)	ng	71.4	0.14				1167038
22'34'56'-HexaCB-(148)	ng	0.136	0.037				1167038
22'34'66'-HexaCB-(150)	ng	0.219	0.028				1167038
22'3566'-HexaCB-(152)	ng	0.237	0.028				1167038
HexaCB-(153)+(168)	ng	65.0	0.12				1167038
22'44'56'-HexaCB-(154)	ng	1.01	0.031				1167038
22'44'66'-HexaCB-(155)	ng	0.050	0.033				1167038
HexaCB-(156)+(157)	ng	7.71	0.097	0.000500	0.00386		1167038
233'44'6'-HexaCB-(158)	ng	7.53	0.10				1167038
233'455'-HexaCB-(159)	ng	0.634	0.097				1167038
233'456'-HexaCB-(160)	ng	ND	0.12				1167038
233'45'6'-HexaCB-(161)	ng	ND	0.11				1167038
233'4'55'-HexaCB-(162)	ng	0.301	0.093				1167038
233'4'5'6'-HexaCB-(164)	ng	5.18	0.11				1167038
233'55'6'-HexaCB-(165)	ng	ND	0.12				1167038
23'44'55'-HexaCB-(167)	ng	2.93	0.099	0.0000100	0.0000293		1167038
33'44'55'-HexaCB-(169)	ng	ND	0.10	0.0100	0.00100		1167038
22'33'44'5'-HeptaCB-(170)	ng	15.5	0.071				1167038
HeptaCB-(171)+(173)	ng	5.83	0.080				1167038
22'33'455'-HeptaCB-(172)	ng	3.04	0.082				1167038
22'33'456'-HeptaCB-(174)	ng	19.8	0.075				1167038
22'33'45'6'-HeptaCB-(175)	ng	0.922	0.042				1167038
22'33'466'-HeptaCB-(176)	ng	2.85	0.032				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Client Project #: 20705
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Maxxam ID		Q89660					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'45'6"-HeptaCB-(177)	ng	11.6	0.083				1167038
22'33'55'6"-HeptaCB-(178)	ng	3.76	0.044				1167038
22'33'56'6"-HeptaCB-(179)	ng	9.09	0.032				1167038
HeptaCB-(180)+(193)	ng	33.2	0.062				1167038
22'344'56"-HeptaCB-(181)	ng	0.152	0.076				1167038
22'344'56"-HeptaCB-(182)	ng	0.171	0.040				1167038
22'344'56"-HeptaCB-(183)	ng	12.4	0.072				1167038
22'344'66"-HeptaCB-(184)	ng	ND	0.030				1167038
22'3455'6"-HeptaCB-(185)	ng	ND	0.072				1167038
22'3456'6"-HeptaCB-(186)	ng	ND	0.033				1167038
22'34'55'6"-HeptaCB-(187)	ng	22.0	0.039				1167038
22'34'56'6"-HeptaCB-(188)	ng	0.082	0.039				1167038
233'44'55"-HeptaCB-(189)	ng	0.480	0.072	0.000100	0.0000480		1167038
233'44'56"-HeptaCB-(190)	ng	2.40	0.063				1167038
233'44'56"-HeptaCB-(191)	ng	0.581	0.063				1167038
233'455'6"-HeptaCB-(192)	ng	ND	0.066				1167038
22'33'44'55"-OctaCB-(194)	ng	6.11	0.082				1167038
22'33'44'56"-OctaCB-(195)	ng	2.59	0.087				1167038
22'33'44'56"-OctaCB-(196)	ng	4.28	0.063				1167038
22'33'44'66"-OctaCB-(197)	ng	ND	0.29				1167038
OctaCB-(198)+(199)	ng	8.41	0.061				1167038
22'33'456'6"-OctaCB-(200)	ng	1.15	0.049				1167038
22'33'45'66"-OctaCB-(201)	ng	1.26	0.046				1167038
22'33'55'66"-OctaCB-(202)	ng	1.77	0.055				1167038
22'344'55'6"-OctaCB-(203)	ng	4.46	0.057				1167038
22'344'56'6"-OctaCB-(204)	ng	ND	0.046				1167038
233'44'55'6"-OctaCB-(205)	ng	0.285	0.064				1167038
22'33'44'55'6"-NonaCB-(206)	ng	2.69	0.062				1167038
22'33'44'56'6"-NonaCB-(207)	ng	0.536	0.057				1167038
22'33'455'66"-NonaCB-(208)	ng	1.03	0.062				1167038
DecaCB-(209)	ng	1.41	0.070				1167038
Monochlorobiphenyl	ng	554	0.12				1167038
Dichlorobiphenyl	ng	1070	0.52				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89660					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
Trichlorobiphenyl	ng	2120	0.30				1167038
Tetrachlorobiphenyl	ng	2160	0.14				1167038
Pentachlorobiphenyl	ng	917	0.21				1167038
Hexachlorobiphenyl	ng	390	0.17				1167038
Heptachlorobiphenyl	ng	144	0.083				1167038
Octachlorobiphenyl	ng	30.3	0.087				1167038
Nonachlorobiphenyl	ng	4.25	0.062				1167038
Decachlorobiphenyl	ng	1.41	0.070				1167038
TOTAL TOXIC EQUIVALENCY	ng				0.0853		
Surrogate Recovery (%)							
C13-2,44'-TriCB-(28)	%	90					1167038
C13-22'33'44'55'6'-NonaCB-(206)	%	95					1167038
C13-22'33'44'5'-HeptaCB-(170)	%	91					1167038
C13-22'33'455'66'-NonaCB-(208)	%	88					1167038
C13-22'33'55'66'-OctaCB-(202)	%	80					1167038
C13-22'33'55'6'-HeptaCB-(178)	%	99					1167038
C13-22'344'55'-HeptaCB-(180)	%	87					1167038
C13-22'34'566'-HeptaCB-(188)	%	75					1167038
C13-22'44'66'-HexaCB-(155)	%	82					1167038
C13-22'466'-PentaCB-(104)	%	83					1167038
C13-22'66'-TetraCB-(54)	%	78					1167038
C13-22'6'-TriCB-(19)	%	72					1167038
C13-22'-DiCB-(4)	%	55					1167038
C13-233'44'55'6'-OctaCB-(205)	%	89					1167038
C13-233'44'55'-HeptaCB-(189)	%	90					1167038
C13-233'44'-PentaCB-(105)	%	99					1167038
C13-233'55'-PentaCB-(111)	%	92					1167038
C13-23'44'55'-HexaCB-(167)	%	87					1167038
C13-2344'5'-PentaCB-(114)	%	92					1167038
C13-23'44'5'-PentaCB-(118)	%	95					1167038
C13-2'344'5'-PentaCB-(123)	%	95					1167038
C13-2-MonoCB-(1)	%	53					1167038
C13-33'44'55'-HexaCB-(169)	%	92					1167038
C13-33'44'5'-PentaCB-(126)	%	101					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89660					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN1	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
C13-33'44'-TetraCB-(77)	%	96					1167038
C13-344'5-TetraCB-(81)	%	97					1167038
C13-344'-TriCB-(37)	%	89					1167038
C13-44'-DiCB-(15)	%	73					1167038
C13-4-MonoCB-(3)	%	60					1167038
C13-DecaCB-(209)	%	93					1167038
C13-HexaCB-(156)+(157)	%	90					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89661					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng	66.5	0.076				1167038
3-MonoCB-(2)	ng	41.6	0.088				1167038
4-MonoCB-(3)	ng	73.6	0.081				1167038
2,2'-DiCB-(4)	ng	70.6	0.36				1167038
2,3-DiCB-(5)	ng	4.78	0.80				1167038
2,3'-DiCB-(6)	ng	39.2	0.75				1167038
2,4-DiCB-(7)	ng	29.5	0.78				1167038
2,4'-DiCB-(8)	ng	101	0.74				1167038
2,5-DiCB-(9)	ng	32.0	0.79				1167038
2,6-DiCB-(10)	ng	10.9	0.29				1167038
3,3'-DiCB-(11)	ng	21.4	0.86				1167038
DiCB-(12)+(13)	ng	41.3	0.81				1167038
3,5-DiCB-(14)	ng	ND	0.81				1167038
4,4'-DiCB-(15)	ng	55.2	0.98				1167038
2,2',3-TriCB-(16)	ng	48.9	0.082				1167038
2,2',4-TriCB-(17)	ng	53.4	0.057				1167038
TriCB-(18)+(30)	ng	102	0.048				1167038
2,2',6-TriCB-(19)	ng	22.9	0.060				1167038
TriCB-(20) + (28)	ng	151	0.16				1167038
TriCB-(21)+(33)	ng	35.5	0.16				1167038
2,3,4'-TriCB-(22)	ng	41.1	0.17				1167038
2,3,5-TriCB-(23)	ng	0.32	0.16				1167038
2,3,6-TriCB-(24)	ng	3.46	0.041				1167038
2,3',4-TriCB-(25)	ng	13.6	0.16				1167038
TriCB-(26)+(29)	ng	28.2	0.15				1167038
2,3',6-TriCB-(27)	ng	9.17	0.045				1167038
2,4',5-TriCB-(31)	ng	116	0.15				1167038
2,4',6-TriCB-(32)	ng	47.3	0.041				1167038
2,3',5'-TriCB-(34)	ng	0.68	0.17				1167038
3,3',4-TriCB-(35)	ng	6.10	0.18				1167038
3,3',5-TriCB-(36)	ng	ND	0.15				1167038
3,4,4'-TriCB-(37)	ng	29.3	0.20				1167038
3,4,5-TriCB-(38)	ng	ND	0.19				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
34'5-TriCB-(39)	ng	0.90	0.16				1167038
TetraCB-(40)+(41)+(71)	ng	45.9	0.068				1167038
22'34'-TetraCB-(42)	ng	27.2	0.082				1167038
22'35'-TetraCB-(43)	ng	4.19	0.093				1167038
TetraCB-(44)+(47)+(65)	ng	93.9	0.065				1167038
TetraCB-(45)+(51)	ng	24.3	0.072				1167038
22'36'-TetraCB-(46)	ng	8.14	0.080				1167038
22'45'-TetraCB-(48)	ng	20.3	0.070				1167038
TetraCB-(49)+TetraCB-(69)	ng	57.2	0.062				1167038
TetraCB-(50)+(53)	ng	19.5	0.069				1167038
22'55'-TetraCB-(52)	ng	103	0.074				1167038
22'66'-TetraCB-(54)	ng	ND	0.74				1167038
233'4'-TetraCB-(55)	ng	0.83	0.15				1167038
233'4'-Tetra CB(56)	ng	24.3	0.16				1167038
233'5'-TetraCB-(57)	ng	0.39	0.16				1167038
233'5'-TetraCB-(58)	ng	ND	0.15				1167038
TetraCB-(59)+(62)+(75)	ng	8.98	0.052				1167038
2344'-TetraCB -(60)	ng	9.99	0.16				1167038
TetraCB-(61)+(70)+(74)+(76)	ng	92.3	0.15				1167038
234'5'-TetraCB-(63)	ng	2.61	0.14				1167038
234'6'-TetraCB-(64)	ng	50.2	0.056				1167038
23'44'-TetraCB-(66)	ng	49.2	0.15				1167038
23'45'-TetraCB-(67)	ng	2.27	0.14				1167038
23'45'-TetraCB-(68)	ng	1.24	0.14				1167038
23'55'-TetraCB-(72)	ng	0.45	0.14				1167038
23'5'6'-TetraCB-(73)	ng	ND	0.047				1167038
33'44'-TetraCB-(77)	ng	4.40	0.16	0.000100	0.000440		1167038
33'45'-TetraCB-(78)	ng	ND	0.16				1167038
33'45'-TetraCB(79)	ng	ND	0.77				1167038
33'55'-TetraCB-(80)	ng	ND	0.13				1167038
344'5'-TetraCB-(81)	ng	ND	0.18	0.000100	0.0000180		1167038
22'33'4'-PentaCB-(82)	ng	6.05	0.13				1167038
PentaCB-(83)+(99)	ng	24.0	0.12				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'6-PentaCB-(84)	ng	16.4	0.13				1167038
PentaCB-(85)+(116)+(117)	ng	7.54	0.092				1167038
PentaCB-(86)(87)(97)(109)(119)(125)	ng	28.4	0.098				1167038
PentaCB-(88)+(91)	ng	9.78	0.12				1167038
22'346'-PentaCB-(89)	ng	1.59	0.13				1167038
PentaCB-(90)+(101)+(113)	ng	39.5	0.099				1167038
22'355'-PentaCB-(92)	ng	7.43	0.12				1167038
PentaCB-(93)+(98)+(100)+(102)	ng	3.87	0.12				1167038
22'356'-PentaCB-(94)	ng	0.54	0.12				1167038
22'35'6-PentaCB-(95)	ng	43.9	0.11				1167038
22'366'-PentaCB-(96)	ng	1.33	0.038				1167038
22'45'6-PentaCB-(103)	ng	ND	0.44				1167038
22'466'-PentaCB-(104)	ng	ND	0.039				1167038
233'44'-PentaCB-(105)	ng	10.2	0.074	0.000100	0.00102		1167038
233'45-PentaCB-(106)	ng	ND	0.076				1167038
233'4'5-PentaCB-(107)	ng	1.78	0.064				1167038
PentaCB-(108)+(124)	ng	1.01	0.073				1167038
PentaCB-(110)+(115)	ng	43.8	0.094				1167038
233'55'-PentaCB-(111)	ng	ND	0.085				1167038
233'56-PentaCB-(112)	ng	ND	0.085				1167038
2344'5-PentaCB-(114)	ng	0.810	0.078	0.000500	0.000405		1167038
23'44'5-PentaCB-(118)	ng	26.0	0.076	0.000100	0.00260		1167038
23'455'-PentaCB-(120)	ng	ND	0.084				1167038
23'45'6-PentaCB-(121)	ng	ND	0.085				1167038
233'4'5'-PentaCB-(122)	ng	0.455	0.083				1167038
23'44'5'-PentaCB-(123)	ng	0.422	0.078	0.000100	0.0000422		1167038
33'44'5-PentaCB-(126)	ng	0.206	0.073	0.100	0.0206		1167038
33'455'-PentaCB-(127)	ng	ND	0.081				1167038
HexaCB-(128)+(166)	ng	3.30	0.088				1167038
HexaCB-(129)+(138)+(163)	ng	23.8	0.095				1167038
22'33'45'-HexaCB-(130)	ng	1.51	0.11				1167038
22'33'46-HexaCB-(131)	ng	0.43	0.12				1167038
22'33'46'-HexaCB-(132)	ng	10.0	0.11				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Maxxam ID		Q89661					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'55'-HexaCB-(133)	ng	ND	0.30				1167038
HexaCB-(134)+(143)	ng	1.48	0.11				1167038
HexaCB-(135)+(151)	ng	8.86	0.042				1167038
22'33'66'-HexaCB-(136)	ng	4.90	0.033				1167038
22'344'5'-HexaCB-(137)	ng	1.12	0.11				1167038
HexaCB-(139)+(140)	ng	0.533	0.093				1167038
22'3455'-HexaCB-(141)	ng	3.99	0.095				1167038
22'3456'-HexaCB-(142)	ng	ND	0.11				1167038
22'345'6'-HexaCB-(144)	ng	1.37	0.044				1167038
22'3466'-HexaCB-(145)	ng	ND	0.033				1167038
22'34'55'-HexaCB-(146)	ng	3.05	0.088				1167038
HexaCB-(147)+(149)	ng	21.1	0.092				1167038
22'34'56'-HexaCB-(148)	ng	ND	0.045				1167038
22'34'66'-HexaCB-(150)	ng	0.068	0.032				1167038
22'3566'-HexaCB-(152)	ng	0.086	0.032				1167038
HexaCB-(153)+(168)	ng	17.4	0.079				1167038
22'44'56'-HexaCB-(154)	ng	0.302	0.036				1167038
22'44'66'-HexaCB-(155)	ng	ND	0.037				1167038
HexaCB-(156)+(157)	ng	2.62	0.088	0.000500	0.00131		1167038
233'44'6'-HexaCB-(158)	ng	2.12	0.070				1167038
233'455'-HexaCB-(159)	ng	ND	0.087				1167038
233'456'-HexaCB-(160)	ng	ND	0.083				1167038
233'45'6'-HexaCB-(161)	ng	ND	0.077				1167038
233'4'55'-HexaCB-(162)	ng	ND	0.084				1167038
233'4'5'6'-HexaCB-(164)	ng	1.49	0.072				1167038
233'55'6'-HexaCB-(165)	ng	ND	0.081				1167038
23'44'55'-HexaCB-(167)	ng	0.841	0.089	0.0000100	0.00000841		1167038
33'44'55'-HexaCB-(169)	ng	ND	0.092	0.0100	0.000920		1167038
22'33'44'5'-HeptaCB-(170)	ng	5.36	0.070				1167038
HeptaCB-(171)+(173)	ng	1.75	0.079				1167038
22'33'455'-HeptaCB-(172)	ng	0.957	0.081				1167038
22'33'456'-HeptaCB-(174)	ng	5.74	0.074				1167038
22'33'45'6'-HeptaCB-(175)	ng	0.239	0.044				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'466'-HeptaCB-(176)	ng	0.901	0.034				1167038
22'33'45'6'-HeptaCB-(177)	ng	3.50	0.082				1167038
22'33'55'6'-HeptaCB-(178)	ng	1.08	0.046				1167038
22'33'566'-HeptaCB-(179)	ng	2.94	0.033				1167038
HeptaCB-(180)+(193)	ng	10.2	0.061				1167038
22'344'56'-HeptaCB-(181)	ng	ND	0.075				1167038
22'344'56'-HeptaCB-(182)	ng	ND	0.042				1167038
22'344'5'6'-HeptaCB-(183)	ng	3.72	0.071				1167038
22'344'66'-HeptaCB-(184)	ng	ND	0.031				1167038
22'3455'6'-HeptaCB-(185)	ng	ND	0.071				1167038
22'34566'-HeptaCB-(186)	ng	ND	0.034				1167038
22'34'55'6'-HeptaCB-(187)	ng	6.15	0.041				1167038
22'34'566'-HeptaCB-(188)	ng	ND	0.041				1167038
233'44'55'-HeptaCB-(189)	ng	0.209	0.068	0.000100	0.0000209		1167038
233'44'56'-HeptaCB-(190)	ng	0.826	0.062				1167038
233'44'5'6'-HeptaCB-(191)	ng	0.216	0.062				1167038
233'455'6'-HeptaCB-(192)	ng	ND	0.065				1167038
22'33'44'55'-OctaCB-(194)	ng	2.58	0.086				1167038
22'33'44'56'-OctaCB-(195)	ng	0.954	0.091				1167038
22'33'44'56'-OctaCB-(196)	ng	1.40	0.065				1167038
22'33'44'66'-OctaCB-(197)	ng	0.127	0.043				1167038
OctaCB-(198)+(199)	ng	2.83	0.063				1167038
22'33'4566'-OctaCB-(200)	ng	0.347	0.050				1167038
22'33'45'66'-OctaCB-(201)	ng	0.352	0.047				1167038
22'33'55'66'-OctaCB-(202)	ng	0.585	0.057				1167038
22'344'55'6'-OctaCB-(203)	ng	1.69	0.058				1167038
22'344'566'-OctaCB-(204)	ng	ND	0.048				1167038
233'44'55'6'-OctaCB-(205)	ng	ND	0.11				1167038
22'33'44'55'6'-NonaCB-(206)	ng	1.12	0.066				1167038
22'33'44'566'-NonaCB-(207)	ng	0.199	0.061				1167038
22'33'455'66'-NonaCB-(208)	ng	0.349	0.067				1167038
DecaCB-(209)	ng	0.609	0.061				1167038
Monochlorobiphenyl	ng	182	0.088				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Client Project #: 20705
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Maxxam ID		Q89661					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
Dichlorobiphenyl	ng	406	0.98				1167038
Trichlorobiphenyl	ng	710	0.20				1167038
Tetrachlorobiphenyl	ng	650	0.17				1167038
Pentachlorobiphenyl	ng	275	0.13				1167038
Hexachlorobiphenyl	ng	110	0.12				1167038
Heptachlorobiphenyl	ng	43.8	0.082				1167038
Octachlorobiphenyl	ng	10.9	0.091				1167038
Nonachlorobiphenyl	ng	1.67	0.067				1167038
Decachlorobiphenyl	ng	0.609	0.061				1167038
TOTAL TOXIC EQUIVALENCY	ng				0.0274		
Surrogate Recovery (%)							
C13-2,4,4'-TriCB-(28)	%	90					1167038
C13-22'33'44'55'6'-NonaCB-(206)	%	94					1167038
C13-22'33'44'5'-HeptaCB-(170)	%	87					1167038
C13-22'33'455'66'-NonaCB-(208)	%	81					1167038
C13-22'33'55'66'-OctaCB-(202)	%	77					1167038
C13-22'33'55'6'-HeptaCB-(178)	%	92					1167038
C13-22'344'55'-HeptaCB-(180)	%	86					1167038
C13-22'34'566'-HeptaCB-(188)	%	78					1167038
C13-22'44'66'-HexaCB-(155)	%	85					1167038
C13-22'466'-PentaCB-(104)	%	85					1167038
C13-22'66'-TetraCB-(54)	%	81					1167038
C13-22'6'-TriCB-(19)	%	75					1167038
C13-22'-DiCB-(4)	%	56					1167038
C13-233'44'55'6'-OctaCB-(205)	%	93					1167038
C13-233'44'55'-HeptaCB-(189)	%	84					1167038
C13-233'44'-PentaCB-(105)	%	90					1167038
C13-233'55'-PentaCB-(111)	%	92					1167038
C13-23'44'55'-HexaCB-(167)	%	92					1167038
C13-2344'5'-PentaCB-(114)	%	88					1167038
C13-23'44'5'-PentaCB-(118)	%	88					1167038
C13-2'344'5'-PentaCB-(123)	%	88					1167038
C13-2'-MonoCB-(1)	%	53					1167038
C13-33'44'55'-HexaCB-(169)	%	90					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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RESULTS OF ANALYSES OF SAMPLING TRAIN

Maxxam ID		Q89661					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN2	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
C13-33'44'5-PentaCB-(126)	%	95					1167038
C13-33'44'-TetraCB-(77)	%	94					1167038
C13-344'5-TetraCB-(81)	%	88					1167038
C13-344'-TriCB-(37)	%	88					1167038
C13-44'-DiCB-(15)	%	61					1167038
C13-4-MonoCB-(3)	%	59					1167038
C13-DecaCB-(209)	%	98					1167038
C13-HexaCB-(156)+(157)	%	88					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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RESULTS OF ANALYSES OF SAMPLING TRAIN

Maxxam ID		Q89662					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
2-MonoCB-(1)	ng	151	0.10				1167038
3-MonoCB-(2)	ng	64.1	0.12				1167038
4-MonoCB-(3)	ng	100	0.11				1167038
2,2'-DiCB-(4)	ng	181	0.34				1167038
2,3-DiCB-(5)	ng	8.08	0.32				1167038
2,3'-DiCB-(6)	ng	60.0	0.30				1167038
2,4-DiCB-(7)	ng	33.7	0.31				1167038
2,4'-DiCB-(8)	ng	168	0.30				1167038
2,5-DiCB-(9)	ng	46.5	0.31				1167038
2,6-DiCB-(10)	ng	18.2	0.28				1167038
3,3'-DiCB-(11)	ng	12.2	0.34				1167038
DiCB-(12)+(13)	ng	40.3	0.32				1167038
3,5-DiCB-(14)	ng	ND	0.48				1167038
4,4'-DiCB-(15)	ng	71.0	0.39				1167038
2,2,3-TriCB-(16)	ng	84.5	0.097				1167038
2,2,4-TriCB-(17)	ng	75.8	0.068				1167038
TriCB-(18)+(30)	ng	149	0.057				1167038
2,2,6-TriCB-(19)	ng	47.8	0.071				1167038
TriCB-(20) + (28)	ng	188	0.11				1167038
TriCB-(21)+(33)	ng	48.3	0.11				1167038
2,3,4'-TriCB-(22)	ng	50.7	0.12				1167038
2,3,5-TriCB-(23)	ng	0.38	0.11				1167038
2,3,6-TriCB-(24)	ng	4.01	0.048				1167038
2,3,4-TriCB-(25)	ng	16.0	0.11				1167038
TriCB-(26)+(29)	ng	34.2	0.11				1167038
2,3,6-TriCB-(27)	ng	13.2	0.053				1167038
2,4,5-TriCB-(31)	ng	145	0.10				1167038
2,4,6-TriCB-(32)	ng	65.5	0.048				1167038
2,3,5'-TriCB-(34)	ng	0.77	0.12				1167038
3,3,4-TriCB-(35)	ng	5.09	0.13				1167038
3,3,5-TriCB-(36)	ng	ND	0.11				1167038
3,4,4'-TriCB-(37)	ng	30.4	0.14				1167038
3,4,5-TriCB-(38)	ng	ND	0.12				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
34'5-TriCB-(39)	ng	0.82	0.11				1167038
TetraCB-(40)+(41)+(71)	ng	40.1	0.054				1167038
22'34'-TetraCB-(42)	ng	24.7	0.065				1167038
22'35-TetraCB-(43)	ng	3.93	0.074				1167038
TetraCB-(44)+(47)+(65)	ng	79.0	0.052				1167038
TetraCB-(45)+(51)	ng	32.0	0.057				1167038
22'36'-TetraCB-(46)	ng	9.14	0.063				1167038
22'45-TetraCB-(48)	ng	18.2	0.056				1167038
TetraCB-(49)+TetraCB-(69)	ng	50.1	0.050				1167038
TetraCB-(50)+(53)	ng	23.2	0.055				1167038
22'55'-TetraCB-(52)	ng	86.8	0.059				1167038
22'66'-TetraCB-(54)	ng	1.43	0.036				1167038
233'4-TetraCB-(55)	ng	0.756	0.077				1167038
233'4'-Tetra CB(56)	ng	16.9	0.083				1167038
233'5-TetraCB-(57)	ng	0.312	0.079				1167038
233'5'-TetraCB-(58)	ng	ND	0.077				1167038
TetraCB-(59)+(62)+(75)	ng	8.49	0.042				1167038
2344'-TetraCB -(60)	ng	9.65	0.079				1167038
TetraCB-(61)+(70)+(74)+(76)	ng	77.4	0.075				1167038
234'5-TetraCB-(63)	ng	2.39	0.073				1167038
234'6-TetraCB-(64)	ng	47.2	0.044				1167038
23'44'-TetraCB-(66)	ng	41.0	0.076				1167038
23'45-TetraCB-(67)	ng	2.38	0.071				1167038
23'45'-TetraCB-(68)	ng	1.02	0.070				1167038
23'55'-TetraCB-(72)	ng	0.387	0.073				1167038
23'5'6-TetraCB-(73)	ng	ND	0.038				1167038
33'44'-TetraCB-(77)	ng	3.88	0.084	0.000100	0.000388		1167038
33'45-TetraCB-(78)	ng	ND	0.083				1167038
33'45'-TetraCB(79)	ng	ND	0.55				1167038
33'55'-TetraCB-(80)	ng	ND	0.067				1167038
344'5-TetraCB-(81)	ng	0.213	0.088	0.000100	0.0000213		1167038
22'33'4-PentaCB-(82)	ng	4.09	0.098				1167038
PentaCB-(83)+(99)	ng	16.8	0.087				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'6-PentaCB-(84)	ng	12.2	0.093				1167038
PentaCB-(85)+(116)+(117)	ng	5.80	0.068				1167038
PentaCB-(86)(87)(97)(109)(119)(125)	ng	18.9	0.073				1167038
PentaCB-(88)+(91)	ng	7.35	0.086				1167038
22'346'-PentaCB-(89)	ng	1.12	0.093				1167038
PentaCB-(90)+(101)+(113)	ng	25.3	0.074				1167038
22'355'-PentaCB-(92)	ng	4.78	0.087				1167038
PentaCB-(93)+(98)+(100)+(102)	ng	3.04	0.086				1167038
22'356'-PentaCB-(94)	ng	0.411	0.092				1167038
22'35'6-PentaCB-(95)	ng	30.9	0.084				1167038
22'366'-PentaCB-(96)	ng	ND	1.1				1167038
22'45'6-PentaCB-(103)	ng	0.430	0.078				1167038
22'466'-PentaCB-(104)	ng	ND	0.049				1167038
233'44'-PentaCB-(105)	ng	6.72	0.064	0.000100	0.000672		1167038
233'45-PentaCB-(106)	ng	ND	0.066				1167038
233'4'5-PentaCB-(107)	ng	1.22	0.055				1167038
PentaCB-(108)+(124)	ng	0.609	0.064				1167038
PentaCB-(110)+(115)	ng	30.2	0.070				1167038
233'55'-PentaCB-(111)	ng	ND	0.063				1167038
233'56-PentaCB-(112)	ng	ND	0.064				1167038
2344'5-PentaCB-(114)	ng	0.641	0.067	0.000500	0.000321		1167038
23'44'5-PentaCB-(118)	ng	18.3	0.066	0.000100	0.00183		1167038
23'455'-PentaCB-(120)	ng	0.075	0.063				1167038
23'45'6-PentaCB-(121)	ng	ND	0.063				1167038
233'4'5'-PentaCB-(122)	ng	0.271	0.072				1167038
23'44'5'-PentaCB-(123)	ng	0.311	0.068	0.000100	0.0000311		1167038
33'44'5-PentaCB-(126)	ng	0.165	0.063	0.100	0.0165		1167038
33'455'-PentaCB-(127)	ng	ND	0.070				1167038
HexaCB-(128)+(166)	ng	2.25	0.059				1167038
HexaCB-(129)+(138)+(163)	ng	14.9	0.064				1167038
22'33'45'-HexaCB-(130)	ng	0.962	0.076				1167038
22'33'46'-HexaCB-(131)	ng	0.309	0.079				1167038
22'33'46'-HexaCB-(132)	ng	6.73	0.073				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'55'-HexaCB-(133)	ng	0.194	0.070				1167038
HexaCB-(134)+(143)	ng	0.885	0.075				1167038
HexaCB-(135)+(151)	ng	5.68	0.034				1167038
22'33'66'-HexaCB-(136)	ng	3.57	0.026				1167038
22'344'5'-HexaCB-(137)	ng	0.809	0.072				1167038
HexaCB-(139)+(140)	ng	0.357	0.062				1167038
22'3455'-HexaCB-(141)	ng	2.26	0.064				1167038
22'3456'-HexaCB-(142)	ng	ND	0.073				1167038
22'345'6'-HexaCB-(144)	ng	0.796	0.036				1167038
22'3466'-HexaCB-(145)	ng	ND	0.027				1167038
22'34'55'-HexaCB-(146)	ng	2.10	0.059				1167038
HexaCB-(147)+(149)	ng	14.1	0.062				1167038
22'34'56'-HexaCB-(148)	ng	ND	0.034				1167038
22'34'66'-HexaCB-(150)	ng	0.087	0.026				1167038
22'3566'-HexaCB-(152)	ng	0.072	0.026				1167038
HexaCB-(153)+(168)	ng	10.7	0.053				1167038
22'44'56'-HexaCB-(154)	ng	ND	0.21				1167038
22'44'66'-HexaCB-(155)	ng	0.039	0.030				1167038
HexaCB-(156)+(157)	ng	1.56	0.058	0.000500	0.000780		1167038
233'44'6'-HexaCB-(158)	ng	1.26	0.047				1167038
233'455'-HexaCB-(159)	ng	ND	0.058				1167038
233'456'-HexaCB-(160)	ng	ND	0.056				1167038
233'45'6'-HexaCB-(161)	ng	ND	0.052				1167038
233'4'55'-HexaCB-(162)	ng	ND	0.056				1167038
233'4'5'6'-HexaCB-(164)	ng	0.873	0.049				1167038
233'55'6'-HexaCB-(165)	ng	ND	0.054				1167038
23'44'55'-HexaCB-(167)	ng	0.569	0.059	0.0000100	0.00000569		1167038
33'44'55'-HexaCB-(169)	ng	ND	0.061	0.0100	0.0000610		1167038
22'33'44'5'-HeptaCB-(170)	ng	3.21	0.057				1167038
HeptaCB-(171)+(173)	ng	1.12	0.065				1167038
22'33'455'-HeptaCB-(172)	ng	0.562	0.067				1167038
22'33'456'-HeptaCB-(174)	ng	3.53	0.061				1167038
22'33'45'6'-HeptaCB-(175)	ng	ND	0.10				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
22'33'466'-HeptaCB-(176)	ng	0.649	0.028				1167038
22'33'45'6'-HeptaCB-(177)	ng	2.16	0.067				1167038
22'33'55'6'-HeptaCB-(178)	ng	0.666	0.038				1167038
22'33'566'-HeptaCB-(179)	ng	1.68	0.028				1167038
HeptaCB-(180)+(193)	ng	6.20	0.050				1167038
22'344'56'-HeptaCB-(181)	ng	ND	0.062				1167038
22'344'56'-HeptaCB-(182)	ng	ND	0.035				1167038
22'344'5'6'-HeptaCB-(183)	ng	2.22	0.058				1167038
22'344'66'-HeptaCB-(184)	ng	ND	0.026				1167038
22'3455'6'-HeptaCB-(185)	ng	ND	0.059				1167038
22'34566'-HeptaCB-(186)	ng	ND	0.029				1167038
22'34'55'6'-HeptaCB-(187)	ng	3.86	0.034				1167038
22'34'566'-HeptaCB-(188)	ng	ND	0.034				1167038
233'44'55'-HeptaCB-(189)	ng	ND	0.12	0.000100	0.0000120		1167038
233'44'56'-HeptaCB-(190)	ng	0.506	0.051				1167038
233'44'5'6'-HeptaCB-(191)	ng	ND	0.12				1167038
233'455'6'-HeptaCB-(192)	ng	ND	0.053				1167038
22'33'44'55'-OctaCB-(194)	ng	1.46	0.066				1167038
22'33'44'56'-OctaCB-(195)	ng	0.618	0.070				1167038
22'33'44'56'-OctaCB-(196)	ng	0.942	0.048				1167038
22'33'44'66'-OctaCB-(197)	ng	ND	0.043				1167038
OctaCB-(198)+(199)	ng	1.72	0.047				1167038
22'33'4566'-OctaCB-(200)	ng	ND	0.18				1167038
22'33'45'66'-OctaCB-(201)	ng	0.215	0.035				1167038
22'33'55'66'-OctaCB-(202)	ng	0.344	0.042				1167038
22'344'55'6'-OctaCB-(203)	ng	ND	0.91				1167038
22'344'566'-OctaCB-(204)	ng	ND	0.035				1167038
233'44'55'6'-OctaCB-(205)	ng	ND	0.052				1167038
22'33'44'55'6'-NonaCB-(206)	ng	0.834	0.078				1167038
22'33'44'566'-NonaCB-(207)	ng	0.151	0.072				1167038
22'33'455'66'-NonaCB-(208)	ng	0.291	0.079				1167038
DecaCB-(209)	ng	0.707	0.073				1167038
Monochlorobiphenyl	ng	316	0.12				1167038
ND = Not detected RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

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Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
Dichlorobiphenyl	ng	639	0.39				1167038
Trichlorobiphenyl	ng	960	0.14				1167038
Tetrachlorobiphenyl	ng	581	0.088				1167038
Pentachlorobiphenyl	ng	190	0.098				1167038
Hexachlorobiphenyl	ng	71.1	0.079				1167038
Heptachlorobiphenyl	ng	26.4	0.067				1167038
Octachlorobiphenyl	ng	5.29	0.070				1167038
Nonachlorobiphenyl	ng	1.28	0.079				1167038
Decachlorobiphenyl	ng	0.707	0.073				1167038
TOTAL TOXIC EQUIVALENCY	ng				0.0212		
Surrogate Recovery (%)							
C13-2,44'-TriCB-(28)	%	99					1167038
C13-22'33'44'55'6'-NonaCB-(206)	%	101					1167038
C13-22'33'44'5'-HeptaCB-(170)	%	93					1167038
C13-22'33'455'66'-NonaCB-(208)	%	86					1167038
C13-22'33'55'66'-OctaCB-(202)	%	87					1167038
C13-22'33'55'6'-HeptaCB-(178)	%	93					1167038
C13-22'344'55'-HeptaCB-(180)	%	88					1167038
C13-22'34'566'-HeptaCB-(188)	%	80					1167038
C13-22'44'66'-HexaCB-(155)	%	88					1167038
C13-22'466'-PentaCB-(104)	%	80					1167038
C13-22'66'-TetraCB-(54)	%	68					1167038
C13-22'6'-TriCB-(19)	%	76					1167038
C13-22'-DiCB-(4)	%	68					1167038
C13-233'44'55'6'-OctaCB-(205)	%	87					1167038
C13-233'44'55'-HeptaCB-(189)	%	90					1167038
C13-233'44'-PentaCB-(105)	%	102					1167038
C13-233'55'-PentaCB-(111)	%	99					1167038
C13-23'44'55'-HexaCB-(167)	%	93					1167038
C13-2344'5'-PentaCB-(114)	%	94					1167038
C13-23'44'5'-PentaCB-(118)	%	99					1167038
C13-2'344'5'-PentaCB-(123)	%	99					1167038
C13-2-MonoCB-(1)	%	47					1167038
C13-33'44'55'-HexaCB-(169)	%	95					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

RESULTS OF ANALYSES OF SAMPLING TRAIN

Maxxam ID		Q89662					
Sampling Date		2007/02/08		TOXIC EQUIVALENCY	# of		
	Units	M23-RUN3	RDL	TEF (WHO)	TEQ(DL)	Isomers	QC Batch
C13-33'44'5-PentaCB-(126)	%	103					1167038
C13-33'44'-TetraCB-(77)	%	103					1167038
C13-344'5-TetraCB-(81)	%	103					1167038
C13-344'-TriCB-(37)	%	104					1167038
C13-44'-DiCB-(15)	%	81					1167038
C13-4-MonoCB-(3)	%	55					1167038
C13-DecaCB-(209)	%	89					1167038
C13-HexaCB-(156)+(157)	%	97					1167038
RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

Test Summary

Maxxam ID Q89659
Sample ID M23-BLANK
Matrix SAMPLING TRAIN
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
PCB Congeners in Air by HRMS - 1668A	HRMS/MS	1167038	2007/02/16	2007/02/20	BR

Maxxam ID Q89660
Sample ID M23-RUN1
Matrix SAMPLING TRAIN
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
PCB Congeners in Air by HRMS - 1668A	HRMS/MS	1167038	2007/02/16	2007/02/20	BR

Maxxam ID Q89661
Sample ID M23-RUN2
Matrix SAMPLING TRAIN
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
PCB Congeners in Air by HRMS - 1668A	HRMS/MS	1167038	2007/02/16	2007/02/20	BR

Maxxam ID Q89662
Sample ID M23-RUN3
Matrix SAMPLING TRAIN
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
PCB Congeners in Air by HRMS - 1668A	HRMS/MS	1167038	2007/02/16	2007/02/20	BR

Maxxam ID Q89733
Sample ID M0030-TUBE 1-R1 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1170332	2007/02/16	2007/02/16	MMS

Maxxam ID Q89751
Sample ID M0030-TUBE 2-R1 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam ID Q89752
Sample ID M0030-TUBE 3-R1 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam Job #: A713421
Report Date: 2007/02/28

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

Test Summary

Maxxam ID Q89753
Sample ID M0030-TUBE 1-R2 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam ID Q89754
Sample ID M0030-TUBE 2-R2 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam ID Q89755
Sample ID M0030-TUBE 3-R2 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam ID Q89756
Sample ID M0030-TUBE 1-R3 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam ID Q89757
Sample ID M0030-TUBE 2-R3 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam ID Q89758
Sample ID M0030-TUBE 3-R3 TX/TXC
Matrix Air
Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
VOST Analysis (M30/31)	GC/MS	1169758	2007/02/20	2007/02/20	MMS

Maxxam Job #: A713421
Report Date: 2007/02/28TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:**GENERAL COMMENTS**

Sample Q89733-01: VOCVOSTM-A: The following analytes exceeded calibration range in this sample: acetone, dichloromethane, 2-butanone, benzene, toluene, ethylbenzene, m/p-xylenes and styrene.
Bromofluorobenzene surrogate recovery exceeds upper acceptance limit.

Sample Q89751-01: VOCVOSTM-A: Used 20X dilution. Benzene value acquired from 40X dilution.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89752-01: VOCVOSTM-A: Used 20X dilution.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89753-01: VOCVOSTM-A: Used 20X dilution. d8-toluene and bromofluorobenzene surrogate recoveries are below acceptance limits in this dilution. OK in original 100X dilution.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89754-01: VOCVOSTM-A: Used 20X dilution. Received VOST tube 8A with broken stem. Transferred contents to empty tube prior to analysis.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89755-01: VOCVOSTM-A: Used 20X dilution. d8-toluene surrogate recovery is below acceptance limit.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89756-01: VOCVOSTM-A: Used 20X dilution. d8-toluene and bromofluorobenzene surrogate recoveries exceed upper acceptance limits. Repeat analysis has lower surrogate recoveries with bromofluorobenzene recovery below acceptance limit. Data from repeat analysis is included in Data Package.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89757-01: VOCVOSTM-A: Used 21.7X dilution. Sample not spiked with surrogate standards due to analyst error. No recovery data available. d10-ethylbenzene field surrogate recovery is acceptable.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Sample Q89758-01: VOCVOSTM-A: Used 20X dilution. Benzene and acetone values acquired from 180X dilution.
0.019 ug bromomethane in Method Blank is trap artifact. Dichloromethane = 0.066 ug and acetone = 0.053 ug in Method Blank. This is acceptable per BRL SOP-00302.

Results relate only to the items tested.

TD*X Associates LP
Attention: Carl Palmer
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report
Maxxam Job Number: GA713421

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
1167038 BR	Method Blank	C13-2,44'-TriCB-(28)	2007/02/20		85	%	40 - 125
		C13-22'33'44'55'6'-NonaCB-(206)	2007/02/20		89	%	30 - 140
		C13-22'33'44'5'-HeptaCB-(170)	2007/02/20		83	%	30 - 140
		C13-22'33'45'56'6'-NonaCB-(208)	2007/02/20		88	%	30 - 140
		C13-22'33'55'66'-OctaCB-(202)	2007/02/20		77	%	30 - 140
		C13-22'33'55'6'-HeptaCB-(178)	2007/02/20		91	%	40 - 125
		C13-22'344'55'-HeptaCB-(180)	2007/02/20		82	%	30 - 140
		C13-22'34'566'-HeptaCB-(188)	2007/02/20		76	%	30 - 140
		C13-22'44'66'-HexaCB-(155)	2007/02/20		79	%	30 - 140
		C13-22'466'-PentaCB-(104)	2007/02/20		71	%	30 - 140
		C13-22'66'-TetraCB-(54)	2007/02/20		76	%	30 - 140
		C13-22'6-TriCB-(19)	2007/02/20		81	%	30 - 140
		C13-22'-DiCB-(4)	2007/02/20		83	%	30 - 140
		C13-233'44'55'6'-OctaCB-(205)	2007/02/20		91	%	30 - 140
		C13-233'44'55'-HeptaCB-(189)	2007/02/20		83	%	30 - 140
		C13-233'44'-PentaCB-(105)	2007/02/20		85	%	30 - 140
		C13-233'55'-PentaCB-(111)	2007/02/20		88	%	40 - 125
		C13-23'44'55'-HexaCB-(167)	2007/02/20		88	%	30 - 140
		C13-2344'5'-PentaCB-(114)	2007/02/20		79	%	30 - 140
		C13-23'44'5'-PentaCB-(118)	2007/02/20		80	%	30 - 140
		C13-2'344'5'-PentaCB-(123)	2007/02/20		85	%	30 - 140
		C13-2-MonoCB-(1)	2007/02/20		67	%	15 - 140
		C13-33'44'55'-HexaCB-(169)	2007/02/20		88	%	30 - 140
		C13-33'44'5'-PentaCB-(126)	2007/02/20		82	%	30 - 140
		C13-33'44'-TetraCB-(77)	2007/02/20		82	%	30 - 140
		C13-344'5'-TetraCB-(81)	2007/02/20		90	%	30 - 140
		C13-344'-TriCB-(37)	2007/02/20		71	%	30 - 140
		C13-44'-DiCB-(15)	2007/02/20		70	%	30 - 140
		C13-4-MonoCB-(3)	2007/02/20		61	%	15 - 140
		C13-DecaCB-(209)	2007/02/20		97	%	30 - 140
		C13-HexaCB-(156)+(157)	2007/02/20		84	%	30 - 140
		2-MonoCB-(1)	2007/02/20	ND, RDL=0.043		ng	
		3-MonoCB-(2)	2007/02/20	ND, RDL=0.050		ng	
		4-MonoCB-(3)	2007/02/20	ND, RDL=0.046		ng	
		22'-DiCB-(4)	2007/02/20	ND, RDL=0.18		ng	
		2,3-DiCB-(5)	2007/02/20	ND, RDL=0.38		ng	
		2,3'-DiCB-(6)	2007/02/20	ND, RDL=0.36		ng	
		2,4-DiCB-(7)	2007/02/20	ND, RDL=0.37		ng	
		2,4'-DiCB-(8)	2007/02/20	ND, RDL=0.35		ng	
		2,5-DiCB-(9)	2007/02/20	ND, RDL=0.37		ng	
		2,6-DiCB-(10)	2007/02/20	ND, RDL=0.15		ng	
		3,3'-DiCB-(11)	2007/02/20	ND, RDL=0.41		ng	
		DiCB-(12)+(13)	2007/02/20	ND, RDL=0.38		ng	
		3,5-DiCB-(14)	2007/02/20	ND, RDL=0.38		ng	
		4,4'-DiCB-(15)	2007/02/20	ND, RDL=0.46		ng	
		22'3-TriCB-(16)	2007/02/20	ND, RDL=0.080		ng	
		22'4-TriCB-(17)	2007/02/20	ND, RDL=0.056		ng	
		TriCB-(18)+(30)	2007/02/20	ND, RDL=0.047		ng	
		22'6-TriCB-(19)	2007/02/20	ND, RDL=0.059		ng	
		TriCB-(20) + (28)	2007/02/20	ND, RDL=0.035		ng	
		TriCB-(21)+(33)	2007/02/20	ND, RDL=0.036		ng	
		234'-TriCB-(22)	2007/02/20	ND, RDL=0.037		ng	
		235-TriCB-(23)	2007/02/20	ND, RDL=0.036		ng	
		236-TriCB-(24)	2007/02/20	ND, RDL=0.040		ng	
		23'4-TriCB-(25)	2007/02/20	ND, RDL=0.035		ng	

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Project name: FBR

Quality Assurance Report (Continued)

Maxxam Job Number: GA713421

QA/QC		Date		Value		Units	QC Limits
Batch	QC Type	Parameter	Analyzed		%Recovery		
Num Init			yyyy/mm/dd				
1167038 BR	Method Blank	TriCB-(26)+(29)	2007/02/20	ND, RDL=0.034		ng	
		23'6-TriCB-(27)	2007/02/20	ND, RDL=0.044		ng	
		24'5-TriCB-(31)	2007/02/20	ND, RDL=0.042		ng	
		24'6-TriCB-(32)	2007/02/20	ND, RDL=0.040		ng	
		23'5-TriCB-(34)	2007/02/20	ND, RDL=0.037		ng	
		33'4-TriCB-(35)	2007/02/20	ND, RDL=0.040		ng	
		33'5-TriCB-(36)	2007/02/20	ND, RDL=0.034		ng	
		344-TriCB-(37)	2007/02/20	ND, RDL=0.045		ng	
		345-TriCB-(38)	2007/02/20	ND, RDL=0.039		ng	
		34'5-TriCB-(39)	2007/02/20	ND, RDL=0.035		ng	
		TetraCB-(40)+(41)+(71)	2007/02/20	ND, RDL=0.040		ng	
		22'34-TetraCB-(42)	2007/02/20	ND, RDL=0.048		ng	
		22'35-TetraCB-(43)	2007/02/20	ND, RDL=0.054		ng	
		TetraCB-(44)+(47)+(65)	2007/02/20	0.057, RDL=0.038		ng	
		TetraCB-(45)+(51)	2007/02/20	ND, RDL=0.042		ng	
		22'36-TetraCB-(46)	2007/02/20	ND, RDL=0.046		ng	
		22'45-TetraCB-(48)	2007/02/20	ND, RDL=0.041		ng	
		TetraCB-(49)+TetraCB-(69)	2007/02/20	ND, RDL=0.036		ng	
		TetraCB-(50)+(53)	2007/02/20	ND, RDL=0.040		ng	
		22'55-TetraCB-(52)	2007/02/20	0.202, RDL=0.043		ng	
		22'66-TetraCB-(54)	2007/02/20	ND, RDL=0.024		ng	
		233'4-TetraCB-(55)	2007/02/20	ND, RDL=0.039		ng	
		233'4-Tetra CB-(56)	2007/02/20	ND, RDL=0.042		ng	
		233'5-TetraCB-(57)	2007/02/20	ND, RDL=0.041		ng	
		233'5-TetraCB-(58)	2007/02/20	ND, RDL=0.039		ng	
		TetraCB-(59)+(62)+(75)	2007/02/20	ND, RDL=0.031		ng	
		2344-TetraCB -(60)	2007/02/20	ND, RDL=0.041		ng	
		TetraCB-(61)+(70)+(74)+(76)	2007/02/20	0.122, RDL=0.039		ng	
		234'5-TetraCB-(63)	2007/02/20	ND, RDL=0.037		ng	
		234'6-TetraCB-(64)	2007/02/20	ND, RDL=0.033		ng	
		23'44-TetraCB-(66)	2007/02/20	ND, RDL=0.039		ng	
		23'45-TetraCB-(67)	2007/02/20	ND, RDL=0.036		ng	
		23'45-TetraCB-(68)	2007/02/20	ND, RDL=0.036		ng	
		23'55-TetraCB-(72)	2007/02/20	ND, RDL=0.037		ng	
		23'5'6-TetraCB-(73)	2007/02/20	ND, RDL=0.028		ng	
		33'44-TetraCB-(77)	2007/02/20	ND, RDL=0.043		ng	
		33'45-TetraCB-(78)	2007/02/20	ND, RDL=0.043		ng	
		33'45-TetraCB-(79)	2007/02/20	ND, RDL=0.037		ng	
		33'55-TetraCB-(80)	2007/02/20	ND, RDL=0.034		ng	
		344'5-TetraCB-(81)	2007/02/20	ND, RDL=0.045		ng	
		22'33'4-PentaCB-(82)	2007/02/20	ND, RDL=0.065		ng	
		PentaCB-(83)+(99)	2007/02/20	0.142, RDL=0.057		ng	
		22'33'6-PentaCB-(84)	2007/02/20	0.080, RDL=0.062		ng	
		PentaCB-(85)+(116)+(117)	2007/02/20	ND, RDL=0.045		ng	
		PentaCB-(86)(87)(97)(109)(119)(125)	2007/02/20	0.198, RDL=0.048		ng	
		PentaCB-(88)+(91)	2007/02/20	ND, RDL=0.057		ng	
		22'346-PentaCB-(89)	2007/02/20	ND, RDL=0.062		ng	
		PentaCB-(90)+(101)+(113)	2007/02/20	0.332, RDL=0.049		ng	
		22'355-PentaCB-(92)	2007/02/20	ND, RDL=0.058		ng	
		PentaCB-(93)+(98)+(100)+(102)	2007/02/20	ND, RDL=0.057		ng	
		22'356-PentaCB-(94)	2007/02/20	ND, RDL=0.061		ng	
		22'35'6-PentaCB-(95)	2007/02/20	0.257, RDL=0.056		ng	
		22'366-PentaCB-(96)	2007/02/20	ND, RDL=0.033		ng	
		22'45'6-PentaCB-(103)	2007/02/20	ND, RDL=0.052		ng	
		22'466-PentaCB-(104)	2007/02/20	ND, RDL=0.034		ng	

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Quality Assurance Report (Continued)

Maxxam Job Number: GA713421

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
1167038 BR	Method Blank	233'44'-PentaCB-(105)	2007/02/20	0.071, RDL=0.047		ng	
		233'45'-PentaCB-(106)	2007/02/20	ND, RDL=0.049		ng	
		233'4'5'-PentaCB-(107)	2007/02/20	ND, RDL=0.041		ng	
		PentaCB-(108)+(124)	2007/02/20	ND, RDL=0.047		ng	
		PentaCB-(110)+(115)	2007/02/20	0.321, RDL=0.047		ng	
		233'55'-PentaCB-(111)	2007/02/20	ND, RDL=0.042		ng	
		233'56'-PentaCB-(112)	2007/02/20	ND, RDL=0.042		ng	
		2344'5'-PentaCB-(114)	2007/02/20	ND, RDL=0.049		ng	
		23'44'5'-PentaCB-(118)	2007/02/20	0.226, RDL=0.049		ng	
		23'455'-PentaCB-(120)	2007/02/20	ND, RDL=0.042		ng	
		23'45'6'-PentaCB-(121)	2007/02/20	ND, RDL=0.042		ng	
		233'4'5'-PentaCB-(122)	2007/02/20	ND, RDL=0.053		ng	
		23'44'5'-PentaCB-(123)	2007/02/20	ND, RDL=0.050		ng	
		33'44'5'-PentaCB-(126)	2007/02/20	ND, RDL=0.047		ng	
		33'455'-PentaCB-(127)	2007/02/20	ND, RDL=0.051		ng	
		HexaCB-(128)+(166)	2007/02/20	ND, RDL=0.074		ng	
		HexaCB-(129)+(138)+(163)	2007/02/20	0.338, RDL=0.080		ng	
		22'33'45'-HexaCB-(130)	2007/02/20	ND, RDL=0.095		ng	
		22'33'46'-HexaCB-(131)	2007/02/20	ND, RDL=0.098		ng	
		22'33'46'-HexaCB-(132)	2007/02/20	0.108, RDL=0.091		ng	
		22'33'55'-HexaCB-(133)	2007/02/20	ND, RDL=0.087		ng	
		HexaCB-(134)+(143)	2007/02/20	ND, RDL=0.094		ng	
		HexaCB-(135)+(151)	2007/02/20	0.100, RDL=0.027		ng	
		22'33'66'-HexaCB-(136)	2007/02/20	0.055, RDL=0.021		ng	
		22'344'5'-HexaCB-(137)	2007/02/20	ND, RDL=0.089		ng	
		HexaCB-(139)+(140)	2007/02/20	ND, RDL=0.078		ng	
		22'3455'-HexaCB-(141)	2007/02/20	ND, RDL=0.080		ng	
		22'3456'-HexaCB-(142)	2007/02/20	ND, RDL=0.091		ng	
		22'345'6'-HexaCB-(144)	2007/02/20	ND, RDL=0.028		ng	
		22'3466'-HexaCB-(145)	2007/02/20	ND, RDL=0.021		ng	
		22'34'55'-HexaCB-(146)	2007/02/20	ND, RDL=0.074		ng	
		HexaCB-(147)+(149)	2007/02/20	ND, RDL=0.23		ng	
		22'34'56'-HexaCB-(148)	2007/02/20	ND, RDL=0.027		ng	
		22'34'66'-HexaCB-(150)	2007/02/20	ND, RDL=0.020		ng	
		22'3566'-HexaCB-(152)	2007/02/20	ND, RDL=0.020		ng	
		HexaCB-(153)+(168)	2007/02/20	0.230, RDL=0.066		ng	
		22'44'56'-HexaCB-(154)	2007/02/20	ND, RDL=0.023		ng	
		22'44'66'-HexaCB-(155)	2007/02/20	ND, RDL=0.024		ng	
		HexaCB-(156)+(157)	2007/02/20	ND, RDL=0.042		ng	
		233'44'6'-HexaCB-(158)	2007/02/20	ND, RDL=0.059		ng	
		233'455'-HexaCB-(159)	2007/02/20	ND, RDL=0.042		ng	
		233'456'-HexaCB-(160)	2007/02/20	ND, RDL=0.070		ng	
		233'45'6'-HexaCB-(161)	2007/02/20	ND, RDL=0.064		ng	
		233'4'55'-HexaCB-(162)	2007/02/20	ND, RDL=0.040		ng	
		233'4'5'6'-HexaCB-(164)	2007/02/20	ND, RDL=0.061		ng	
		233'55'6'-HexaCB-(165)	2007/02/20	ND, RDL=0.068		ng	
		23'44'55'-HexaCB-(167)	2007/02/20	ND, RDL=0.043		ng	
		33'44'55'-HexaCB-(169)	2007/02/20	ND, RDL=0.044		ng	
		22'33'44'5'-HeptaCB-(170)	2007/02/20	ND, RDL=0.059		ng	
		HeptaCB-(171)+(173)	2007/02/20	ND, RDL=0.066		ng	
		22'33'455'-HeptaCB-(172)	2007/02/20	ND, RDL=0.068		ng	
		22'33'456'-HeptaCB-(174)	2007/02/20	ND, RDL=0.062		ng	
		22'33'45'6'-HeptaCB-(175)	2007/02/20	ND, RDL=0.034		ng	
		22'33'466'-HeptaCB-(176)	2007/02/20	ND, RDL=0.026		ng	
		22'33'45'6'-HeptaCB-(177)	2007/02/20	ND, RDL=0.069		ng	

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1167038 BR	Method Blank	22'33'55'6-HeptaCB-(178)	2007/02/20	ND, RDL=0.035		ng	
		22'33'56'6-HeptaCB-(179)	2007/02/20	ND, RDL=0.025		ng	
		HeptaCB-(180)+(193)	2007/02/20	ND, RDL=0.094		ng	
		22'344'56-HeptaCB-(181)	2007/02/20	ND, RDL=0.063		ng	
		22'344'56-HeptaCB-(182)	2007/02/20	ND, RDL=0.032		ng	
		22'344'56-HeptaCB-(183)	2007/02/20	ND, RDL=0.060		ng	
		22'344'66-HeptaCB-(184)	2007/02/20	ND, RDL=0.024		ng	
		22'3455'6-HeptaCB-(185)	2007/02/20	ND, RDL=0.060		ng	
		22'34566-HeptaCB-(186)	2007/02/20	ND, RDL=0.026		ng	
		22'34'55'6-HeptaCB-(187)	2007/02/20	ND, RDL=0.046		ng	
		22'34'566-HeptaCB-(188)	2007/02/20	ND, RDL=0.031		ng	
		233'44'55-HeptaCB-(189)	2007/02/20	ND, RDL=0.062		ng	
		233'44'56-HeptaCB-(190)	2007/02/20	ND, RDL=0.052		ng	
		233'44'56-HeptaCB-(191)	2007/02/20	ND, RDL=0.052		ng	
		233'455'6-HeptaCB-(192)	2007/02/20	ND, RDL=0.055		ng	
		22'33'44'55-OctaCB-(194)	2007/02/20	ND, RDL=0.066		ng	
		22'33'44'56-OctaCB-(195)	2007/02/20	ND, RDL=0.070		ng	
		22'33'44'56-OctaCB-(196)	2007/02/20	ND, RDL=0.053		ng	
		22'33'44'66-OctaCB-(197)	2007/02/20	ND, RDL=0.035		ng	
		OctaCB-(198)+(199)	2007/02/20	ND, RDL=0.052		ng	
		22'33'4566-OctaCB-(200)	2007/02/20	ND, RDL=0.042		ng	
		22'33'45'66-OctaCB-(201)	2007/02/20	ND, RDL=0.039		ng	
		22'33'55'66-OctaCB-(202)	2007/02/20	ND, RDL=0.047		ng	
		22'344'55'6-OctaCB-(203)	2007/02/20	ND, RDL=0.048		ng	
		22'344'566-OctaCB-(204)	2007/02/20	ND, RDL=0.039		ng	
		233'44'55'6-OctaCB-(205)	2007/02/20	ND, RDL=0.052		ng	
		22'33'44'55'6-NonaCB-(206)	2007/02/20	ND, RDL=0.054		ng	
		22'33'44'566-NonaCB-(207)	2007/02/20	ND, RDL=0.050		ng	
		22'33'455'66-NonaCB-(208)	2007/02/20	ND, RDL=0.055		ng	
		DecaCB-(209)	2007/02/20	ND, RDL=0.058		ng	
		Monochlorobiphenyl	2007/02/20	ND, RDL=0.050		ng	
		Dichlorobiphenyl	2007/02/20	ND, RDL=0.46		ng	
		Trichlorobiphenyl	2007/02/20	ND, RDL=0.080		ng	
		Tetrachlorobiphenyl	2007/02/20	0.381, RDL=0.054		ng	
		Pentachlorobiphenyl	2007/02/20	1.63, RDL=0.065		ng	
		Hexachlorobiphenyl	2007/02/20	0.831, RDL=0.098		ng	
		Heptachlorobiphenyl	2007/02/20	ND, RDL=0.069		ng	
		Octachlorobiphenyl	2007/02/20	ND, RDL=0.070		ng	
		Nonachlorobiphenyl	2007/02/20	ND, RDL=0.055		ng	
		Decachlorobiphenyl	2007/02/20	ND, RDL=0.058		ng	
1169758 MMS	Spiked Blank	Bromofluorobenzene	2007/02/20		97	%	57 - 118
		D10-Ethylbenzene (FS)	2007/02/20		116	%	21 - 192
		D4-1,2-Dichloroethane	2007/02/20		86	%	22 - 159
		D8-Toluene	2007/02/20		103	%	67 - 125
		Dichlorodifluoromethane (FREON 12)	2007/02/20	104, RDL=0.02	104	ug	50 - 150
		Chloromethane	2007/02/20	136, RDL=0.02	136	ug	50 - 150
		Vinyl Chloride	2007/02/20	141, RDL=0.01	141	ug	50 - 150
		Bromomethane	2007/02/20	59.0, RDL=0.02	59	ug	50 - 150
		Chloroethane	2007/02/20	113, RDL=0.009	113	ug	50 - 150
		Trichlorofluoromethane (FREON 11)	2007/02/20	114, RDL=0.01	114	ug	50 - 150
		Acetone (2-Propanone)	2007/02/20	145, RDL=0.05	145	ug	50 - 150
		1,1-Dichloroethylene	2007/02/20	94.0, RDL=0.01	94	ug	50 - 150
		Carbon Disulfide	2007/02/20	94.0, RDL=0.03	94	ug	50 - 150
		Methylene Chloride(Dichloromethane)	2007/02/20	93.0, RDL=0.02	93	ug	50 - 150
		1,1-Dichloroethane	2007/02/20	97.0, RDL=0.01	97	ug	50 - 150

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1169758 MMS	Spiked Blank	trans-1,2-Dichloroethylene	2007/02/20	89.0, RDL=0.01	89	ug	50 - 150
		cis-1,2-Dichloroethylene	2007/02/20	90.0, RDL=0.01	90	ug	50 - 150
		Chloroform	2007/02/20	96.0, RDL=0.01	96	ug	50 - 150
		1,2-Dichloroethane	2007/02/20	91.0, RDL=0.007	91	ug	50 - 150
		Methyl Ethyl Ketone (2-Butanone)	2007/02/20	74.0, RDL=0.04	74	ug	50 - 150
		1,1,1-Trichloroethane	2007/02/20	105, RDL=0.01	105	ug	50 - 150
		Carbon Tetrachloride	2007/02/20	115, RDL=0.02	115	ug	50 - 150
		Benzene	2007/02/20	96.0, RDL=0.009	96	ug	50 - 150
		1,1,2-Trichloroethane	2007/02/20	93.0, RDL=0.02	93	ug	50 - 150
		1,2-Dichloropropane	2007/02/20	99.0, RDL=0.01	99	ug	50 - 150
		Trichloroethylene	2007/02/20	103, RDL=0.01	103	ug	50 - 150
		Dibromomethane	2007/02/20	95.0, RDL=0.01	95	ug	50 - 150
		Bromodichloromethane	2007/02/20	92.0, RDL=0.01	92	ug	50 - 150
		cis-1,3-Dichloropropene	2007/02/20	95.0, RDL=0.01	95	ug	50 - 150
		trans-1,3-Dichloropropene	2007/02/20	97.0, RDL=0.007	97	ug	50 - 150
		Dibromochloromethane	2007/02/20	97.0, RDL=0.009	97	ug	50 - 150
		Methyl Isobutyl Ketone	2007/02/20	96.0, RDL=0.02	96	ug	50 - 150
		Toluene	2007/02/20	109, RDL=0.01	109	ug	50 - 150
		Ethylene Dibromide	2007/02/20	110, RDL=0.01	110	ug	50 - 150
		Tetrachloroethylene	2007/02/20	120, RDL=0.02	120	ug	50 - 150
		Chlorobenzene	2007/02/20	106, RDL=0.01	106	ug	50 - 150
		1,1,1,2-Tetrachloroethane	2007/02/20	105, RDL=0.01	105	ug	50 - 150
		Ethylbenzene	2007/02/20	103, RDL=0.01	103	ug	50 - 150
		m / p-Xylene	2007/02/20	192, RDL=0.02	96	ug	50 - 150
		Styrene	2007/02/20	97.0, RDL=0.01	97	ug	50 - 150
		o-Xylene	2007/02/20	89.0, RDL=0.02	89	ug	50 - 150
		Bromoform	2007/02/20	111, RDL=0.01	111	ug	50 - 150
		1,1,2,2-Tetrachloroethane	2007/02/20	91.0, RDL=0.01	91	ug	50 - 150
		1,2,3-Trichloropropane	2007/02/20	83.0, RDL=0.02	83	ug	50 - 150
		1,3-Dichlorobenzene	2007/02/20	117, RDL=0.02	117	ug	50 - 150
		1,4-Dichlorobenzene	2007/02/20	127, RDL=0.02	127	ug	50 - 150
		1,2-Dichlorobenzene	2007/02/20	113, RDL=0.02	113	ug	50 - 150
	Method Blank	Bromofluorobenzene	2007/02/20		99	%	57 - 118
		D10-Ethylbenzene (FS)	2007/02/20		126	%	21 - 192
		D4-1,2-Dichloroethane	2007/02/20		86	%	22 - 159
		D8-Toluene	2007/02/20		96	%	67 - 125
		Dichlorodifluoromethane (FREON 12)	2007/02/20	ND, RDL=0.02		ug	
		Chloromethane	2007/02/20	ND, RDL=0.02		ug	
		Vinyl Chloride	2007/02/20	ND, RDL=0.01		ug	
		Bromomethane	2007/02/20	ND, RDL=0.02		ug	
		Chloroethane	2007/02/20	ND, RDL=0.009		ug	
		Trichlorofluoromethane (FREON 11)	2007/02/20	ND, RDL=0.01		ug	
		Acetone (2-Propanone)	2007/02/20	0.05, RDL=0.05		ug	
		1,1-Dichloroethylene	2007/02/20	ND, RDL=0.01		ug	
		Iodomethane	2007/02/20	ND, RDL=0.02		ug	
		Carbon Disulfide	2007/02/20	ND, RDL=0.03		ug	
		Methylene Chloride(Dichloromethane)	2007/02/20	0.07, RDL=0.02		ug	
		1,1-Dichloroethane	2007/02/20	ND, RDL=0.01		ug	
		Vinyl Acetate	2007/02/20	ND, RDL=0.02		ug	
		trans-1,2-Dichloroethylene	2007/02/20	ND, RDL=0.01		ug	
		cis-1,2-Dichloroethylene	2007/02/20	ND, RDL=0.01		ug	
		Chloroform	2007/02/20	ND, RDL=0.01		ug	
		1,2-Dichloroethane	2007/02/20	ND, RDL=0.007		ug	
		Methyl Ethyl Ketone (2-Butanone)	2007/02/20	ND, RDL=0.04		ug	
		1,1,1-Trichloroethane	2007/02/20	ND, RDL=0.01		ug	

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Num Init	QC Type	Parameter	yyyy/mm/dd	Value	%Recovery	Units	QC Limits
1169758 MMS	Method Blank	Carbon Tetrachloride	2007/02/20	ND, RDL=0.02		ug	
		Benzene	2007/02/20	ND, RDL=0.009		ug	
		1,1,2-Trichloroethane	2007/02/20	ND, RDL=0.02		ug	
		1,2-Dichloropropane	2007/02/20	ND, RDL=0.01		ug	
		Trichloroethylene	2007/02/20	ND, RDL=0.01		ug	
		Dibromomethane	2007/02/20	ND, RDL=0.01		ug	
		Bromodichloromethane	2007/02/20	ND, RDL=0.01		ug	
		cis-1,3-Dichloropropene	2007/02/20	ND, RDL=0.01		ug	
		trans-1,3-Dichloropropene	2007/02/20	ND, RDL=0.007		ug	
		Dibromochloromethane	2007/02/20	ND, RDL=0.009		ug	
		Methyl Isobutyl Ketone	2007/02/20	ND, RDL=0.02		ug	
		Toluene	2007/02/20	ND, RDL=0.01		ug	
		Ethylene Dibromide	2007/02/20	ND, RDL=0.01		ug	
		Tetrachloroethylene	2007/02/20	ND, RDL=0.02		ug	
		Chlorobenzene	2007/02/20	ND, RDL=0.01		ug	
		1,1,1,2-Tetrachloroethane	2007/02/20	ND, RDL=0.01		ug	
		Ethylbenzene	2007/02/20	ND, RDL=0.01		ug	
		m / p-Xylene	2007/02/20	ND, RDL=0.02		ug	
		Styrene	2007/02/20	ND, RDL=0.01		ug	
		o-Xylene	2007/02/20	ND, RDL=0.02		ug	
		Bromoform	2007/02/20	ND, RDL=0.01		ug	
		1,1,2,2-Tetrachloroethane	2007/02/20	ND, RDL=0.01		ug	
		1,2,3-Trichloropropane	2007/02/20	ND, RDL=0.02		ug	
		1,3-Dichlorobenzene	2007/02/20	ND, RDL=0.02		ug	
		1,4-Dichlorobenzene	2007/02/20	ND, RDL=0.02		ug	
		1,2-Dichlorobenzene	2007/02/20	ND, RDL=0.02		ug	
1170332 MMS	Spiked Blank	Bromofluorobenzene	2007/02/16		95	%	57 - 118
		D10-Ethylbenzene (FS)	2007/02/16		112	%	21 - 192
		D4-1,2-Dichloroethane	2007/02/16		94	%	22 - 159
		D8-Toluene	2007/02/16		97	%	67 - 125
		Dichlorodifluoromethane (FREON 12)	2007/02/16	116, RDL=0.02	116	ug	50 - 150
		Chloromethane	2007/02/16	123, RDL=0.02	123	ug	50 - 150
		Vinyl Chloride	2007/02/16	127, RDL=0.01	127	ug	50 - 150
		Bromomethane	2007/02/16	99.0, RDL=0.02	99	ug	50 - 150
		Chloroethane	2007/02/16	106, RDL=0.009	106	ug	50 - 150
		Trichlorofluoromethane (FREON 11)	2007/02/16	126, RDL=0.01	126	ug	50 - 150
		Acetone (2-Propanone)	2007/02/16	104, RDL=0.05	104	ug	50 - 150
		1,1-Dichloroethylene	2007/02/16	111, RDL=0.01	111	ug	50 - 150
		Carbon Disulfide	2007/02/16	118, RDL=0.03	118	ug	50 - 150
		Methylene Chloride(Dichloromethane)	2007/02/16	113, RDL=0.02	113	ug	50 - 150
		1,1-Dichloroethane	2007/02/16	114, RDL=0.01	114	ug	50 - 150
		trans-1,2-Dichloroethylene	2007/02/16	113, RDL=0.01	113	ug	50 - 150
		cis-1,2-Dichloroethylene	2007/02/16	108, RDL=0.01	108	ug	50 - 150
		Chloroform	2007/02/16	112, RDL=0.01	112	ug	50 - 150
		1,2-Dichloroethane	2007/02/16	103, RDL=0.007	103	ug	50 - 150
		Methyl Ethyl Ketone (2-Butanone)	2007/02/16	91.0, RDL=0.04	91	ug	50 - 150
		1,1,1-Trichloroethane	2007/02/16	114, RDL=0.01	114	ug	50 - 150
		Carbon Tetrachloride	2007/02/16	130, RDL=0.02	130	ug	50 - 150
		Benzene	2007/02/16	105, RDL=0.009	105	ug	50 - 150
		1,1,2-Trichloroethane	2007/02/16	108, RDL=0.02	108	ug	50 - 150
		1,2-Dichloropropane	2007/02/16	104, RDL=0.01	104	ug	50 - 150
		Trichloroethylene	2007/02/16	115, RDL=0.01	115	ug	50 - 150
		Dibromomethane	2007/02/16	106, RDL=0.01	106	ug	50 - 150
		Bromodichloromethane	2007/02/16	100, RDL=0.01	100	ug	50 - 150
		cis-1,3-Dichloropropene	2007/02/16	99.0, RDL=0.01	99	ug	50 - 150

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1170332 MMS	Spiked Blank	trans-1,3-Dichloropropene	2007/02/16	109, RDL=0.007	109	ug	50 - 150
		Dibromochloromethane	2007/02/16	110, RDL=0.009	110	ug	50 - 150
		Methyl Isobutyl Ketone	2007/02/16	98.0, RDL=0.02	98	ug	50 - 150
		Toluene	2007/02/16	106, RDL=0.01	106	ug	50 - 150
		Ethylene Dibromide	2007/02/16	112, RDL=0.01	112	ug	50 - 150
		Tetrachloroethylene	2007/02/16	115, RDL=0.02	115	ug	50 - 150
		Chlorobenzene	2007/02/16	106, RDL=0.01	106	ug	50 - 150
		1,1,1,2-Tetrachloroethane	2007/02/16	107, RDL=0.01	107	ug	50 - 150
		Ethylbenzene	2007/02/16	102, RDL=0.01	102	ug	50 - 150
		m / p-Xylene	2007/02/16	194, RDL=0.02	97	ug	50 - 150
		Styrene	2007/02/16	102, RDL=0.01	102	ug	50 - 150
		o-Xylene	2007/02/16	98.0, RDL=0.02	98	ug	50 - 150
		Bromoform	2007/02/16	113, RDL=0.01	113	ug	50 - 150
		1,1,2,2-Tetrachloroethane	2007/02/16	98.0, RDL=0.01	98	ug	50 - 150
		1,2,3-Trichloropropane	2007/02/16	87.0, RDL=0.02	87	ug	50 - 150
		1,3-Dichlorobenzene	2007/02/16	114, RDL=0.02	114	ug	50 - 150
		1,4-Dichlorobenzene	2007/02/16	120, RDL=0.02	120	ug	50 - 150
		1,2-Dichlorobenzene	2007/02/16	108, RDL=0.02	108	ug	50 - 150
	Method Blank	Bromofluorobenzene	2007/02/16		95	%	57 - 118
		D10-Ethylbenzene (FS)	2007/02/16		109	%	21 - 192
		D4-1,2-Dichloroethane	2007/02/16		101	%	22 - 159
		D8-Toluene	2007/02/16		104	%	67 - 125
		Dichlorodifluoromethane (FREON 12)	2007/02/16	ND, RDL=0.02		ug	
		Chloromethane	2007/02/16	ND, RDL=0.02		ug	
		Vinyl Chloride	2007/02/16	ND, RDL=0.01		ug	
		Bromomethane	2007/02/16	ND, RDL=0.02		ug	
		Chloroethane	2007/02/16	ND, RDL=0.009		ug	
		Trichlorofluoromethane (FREON 11)	2007/02/16	ND, RDL=0.01		ug	
		Acetone (2-Propanone)	2007/02/16	ND, RDL=0.05		ug	
		1,1-Dichloroethylene	2007/02/16	ND, RDL=0.01		ug	
		Iodomethane	2007/02/16	ND, RDL=0.02		ug	
		Carbon Disulfide	2007/02/16	ND, RDL=0.03		ug	
		Methylene Chloride(Dichloromethane)	2007/02/16	ND, RDL=0.02		ug	
		1,1-Dichloroethane	2007/02/16	ND, RDL=0.01		ug	
		Vinyl Acetate	2007/02/16	ND, RDL=0.02		ug	
		trans-1,2-Dichloroethylene	2007/02/16	ND, RDL=0.01		ug	
		cis-1,2-Dichloroethylene	2007/02/16	ND, RDL=0.01		ug	
		Chloroform	2007/02/16	ND, RDL=0.01		ug	
		1,2-Dichloroethane	2007/02/16	ND, RDL=0.007		ug	
		Methyl Ethyl Ketone (2-Butanone)	2007/02/16	ND, RDL=0.04		ug	
		1,1,1-Trichloroethane	2007/02/16	ND, RDL=0.01		ug	
		Carbon Tetrachloride	2007/02/16	ND, RDL=0.02		ug	
		Benzene	2007/02/16	ND, RDL=0.009		ug	
		1,1,2-Trichloroethane	2007/02/16	ND, RDL=0.02		ug	
		1,2-Dichloropropane	2007/02/16	ND, RDL=0.01		ug	
		Trichloroethylene	2007/02/16	ND, RDL=0.01		ug	
		Dibromomethane	2007/02/16	ND, RDL=0.01		ug	
		Bromodichloromethane	2007/02/16	ND, RDL=0.01		ug	
		cis-1,3-Dichloropropene	2007/02/16	ND, RDL=0.01		ug	
		trans-1,3-Dichloropropene	2007/02/16	ND, RDL=0.007		ug	
		Dibromochloromethane	2007/02/16	ND, RDL=0.009		ug	
		Methyl Isobutyl Ketone	2007/02/16	ND, RDL=0.02		ug	
		Toluene	2007/02/16	ND, RDL=0.01		ug	
		Ethylene Dibromide	2007/02/16	ND, RDL=0.01		ug	
		Tetrachloroethylene	2007/02/16	ND, RDL=0.02		ug	

TD*X Associates LP
Attention: Carl Palmer
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report (Continued)

Maxxam Job Number: GA713421

QA/QC Batch		QC Type	Parameter	Date Analyzed	Value	%Recovery	Units	QC Limits
Num	Init			yyyy/mm/dd				
1170332	MMS	Method Blank	Chlorobenzene	2007/02/16	ND, RDL=0.01		ug	
			1,1,1,2-Tetrachloroethane	2007/02/16	ND, RDL=0.01		ug	
			Ethylbenzene	2007/02/16	ND, RDL=0.01		ug	
			m / p-Xylene	2007/02/16	ND, RDL=0.02		ug	
			Styrene	2007/02/16	ND, RDL=0.01		ug	
			o-Xylene	2007/02/16	ND, RDL=0.02		ug	
			Bromoform	2007/02/16	ND, RDL=0.01		ug	
			1,1,2,2-Tetrachloroethane	2007/02/16	ND, RDL=0.01		ug	
			1,2,3-Trichloropropane	2007/02/16	ND, RDL=0.02		ug	
			1,3-Dichlorobenzene	2007/02/16	ND, RDL=0.02		ug	
			1,4-Dichlorobenzene	2007/02/16	ND, RDL=0.02		ug	
			1,2-Dichlorobenzene	2007/02/16	ND, RDL=0.02		ug	
ND = Not detected								
SPIKE = Fortified sample								

Your Project #: 20705
Site: FBR**Attention: Greg Meyers**TD*X Associates LP
148 South Dowlen Rd
PMB 700
Beaumont, TX
USA 77707

Report Date: 2007/03/06

CERTIFICATE OF ANALYSIS**MAXXAM JOB #: A713448****Received: 2007/02/10, 6:00**

Sample Matrix: Impinger Solution

Samples Received: 4

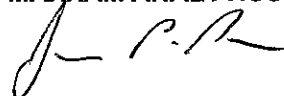
Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Hydrogen Halides by IC	4	2007/02/21	2007/02/21	BRL SOP-00104	EPA CFR PTM 26A
Final Volume of Impinger	4	2007/02/21	2007/02/23		

Sample Matrix: SAMPLING TRAIN

Samples Received: 4

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Mercury 3C in Air (HCl Impinger) by CVAA	4	2007/02/22	2007/02/23	BRL SOP-00104	EPA CFR PTM 29
Mercury 3A in Air (HNO3 Rinse) by CVAA	4	2007/02/22	2007/02/23	BRL SOP-00104	EPA CFR PTM 29
Mercury 2B in Air (HNO3/H2O2 Imp) by CVAA	4	2007/02/21	2007/02/22	BRL SOP-00104	EPA CFR PTM 29
Mercury 3B in Air (KMnO4/H2SO4) by CVAA	4	2007/02/22	2007/02/23	BRL SOP-00104	EPA CFR PTM 29
Mercury 1B -Air (Filter+Acetone) by CVAA	4	2007/02/22	2007/02/23	BRL SOP-00104	EPA CFR PTM 29
Metals in Air (Combined) by ICP/MS	4	2007/02/21	2007/03/02	BRL SOP-00103 / BRL SOP-00102	EPA SW846-6020
Particulates in Air (Acetone Rinse) (M5)	3	2007/02/19	2007/02/19	BRL SOP-00109	EPA CFR PTM 5
Particulates in Air (Filter)	4	2007/02/19	2007/02/19	BRL SOP-00109	EPA CFR PTM 5
Final Volume of Acetone Probe Rinse	3	2007/02/15	2007/02/16		

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

MAXXAM ANALYTICS INC.JIM POWER, CET
Project ManagerJP2/jp2
encl.

Total cover pages: 1

Page 1 of 11

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

RESULTS OF ANALYSES OF IMPINGER SOLUTION

Maxxam ID		Q89842	Q89849	Q89849	Q89850	Q89851		
Sampling Date		2007/02/08	2007/02/08	2007/02/08	2007/02/08	2007/02/08		
	Units	M26A-BLANK H2SO4	M26A-RUN 1 H2SO4	M26A-RUN 1 H2SO4 Lab-Dup	M26A-RUN 2 H2SO4	M26A-RUN 3 H2SO4	RDL	QC Batch

Hydrochloric Acid	ug	ND	1500	1400	2000	3600	200	1169655
Volume	ml	140	850	N/A	680	810	1	1169925

ND = Not detected
N/A = Not Applicable
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

RESULTS OF ANALYSES OF SAMPLING TRAIN

Maxxam ID		Q89798	Q89804	Q89805	Q89806		
Sampling Date		2007/02/08	2007/02/08	2007/02/08	2007/02/08		
	Units	M29-BLANK	M29-RUN 1	M29-RUN 2	M29-RUN 3	RDL	QC Batch
Particulate Weight in Acetone Rinse	mg	N/A	2.2	1.7	1.6	0.5	1168473
Volume	ml	N/A	69	67	34	1	1168725
Particulate Weight on Filter	mg	ND	ND	ND	ND	0.30	1168471
ND = Not detected N/A = Not Applicable RDL = Reportable Detection Limit QC Batch = Quality Control Batch							

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

MERCURY BY COLD VAPOUR AA (SAMPLING TRAIN)

Maxxam ID		Q89798		Q89804		Q89804		
Sampling Date		2007/02/08		2007/02/08		2007/02/08		
	Units	M29-BLANK	RDL	M29-RUN 1		M29-RUN 1 Lab-Dup	RDL	QC Batch

Total Mercury-1B	ug	ND	0.03	0.06	0.07	0.03	1170165
Total Mercury-2B	ug	ND	0.27	41.4	40.8	0.92	1169068
Total Mercury-3A	ug	0.15	0.03	0.02	0.02	0.01	1169102
Total Mercury-3B	ug	ND	0.05	147	147	5	1169707
Total Mercury-3C	ug	ND	0.05	111	113	2.5	1170738

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam ID		Q89805		Q89806		
Sampling Date		2007/02/08		2007/02/08		
	Units	M29-RUN 2	RDL	M29-RUN 3	RDL	QC Batch

Total Mercury-1B	ug	ND	0.03	ND	0.03	1170165
Total Mercury-2B	ug	60.8	1.3	57.0	1.2	1169068
Total Mercury-3A	ug	0.06	0.01	0.15	0.01	1169102
Total Mercury-3B	ug	203	5	105	5	1169707
Total Mercury-3C	ug	13.0	0.5	137	2.5	1170738

ND = Not detected
RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

ELEMENTS BY ICP/MS (SAMPLING TRAIN)

Maxxam ID		Q89798	Q89804	Q89804	Q89805	Q89806		
Sampling Date		2007/02/08	2007/02/08	2007/02/08	2007/02/08	2007/02/08		
	Units	M29-BLANK	M29-RUN 1	M29-RUN 1 Lab-Dup	M29-RUN 2	M29-RUN 3	RDL	QC Batch

Total Chromium (Cr)	ug	2.65	21.5	21.7	4.43	11.9	0.30	1169490
Total Lead (Pb)	ug	0.33	15.4	14.6	4.88	7.12	0.20	1169490

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

Test Summary

Maxxam ID Q89798
Sample ID M29-BLANK
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Mercury 3C in Air (HCl Impinger) by CVAA	CVAA	1170738	2007/02/22	2007/02/23	FFS
Mercury 3A in Air (HNO3 Rinse) by CVAA	CVAA	1169102	2007/02/22	2007/02/23	FFS
Mercury 2B in Air(HNO3/H2O2 Imp) by CVA	CVAA	1169068	2007/02/21	2007/02/22	FFS
Mercury 3B in Air (KMnO4/H2SO4) by CVA	CVAA	1169707	2007/02/22	2007/02/23	FFS
Mercury 1B -Air (Filter+Acetone) by CVAA	CVAA	1170165	2007/02/22	2007/02/23	FFS
Metals in Air (Combined) by ICP/MS	ICP1/MS	1169490	2007/02/21	2007/03/02	N R
Particulates in Air (Filter)	BAL	1168471	2007/02/19	2007/02/19	VP2

Maxxam ID Q89804
Sample ID M29-RUN 1
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Mercury 3C in Air (HCl Impinger) by CVAA	CVAA	1170738	2007/02/22	2007/02/23	FFS
Mercury 3A in Air (HNO3 Rinse) by CVAA	CVAA	1169102	2007/02/22	2007/02/23	FFS
Mercury 2B in Air(HNO3/H2O2 Imp) by CVA	CVAA	1169068	2007/02/21	2007/02/22	FFS
Mercury 3B in Air (KMnO4/H2SO4) by CVA	CVAA	1169707	2007/02/22	2007/02/23	FFS
Mercury 1B -Air (Filter+Acetone) by CVAA	CVAA	1170165	2007/02/22	2007/02/23	FFS
Metals in Air (Combined) by ICP/MS	ICP1/MS	1169490	2007/02/21	2007/03/02	N R
Particulates in Air (Acetone Rinse) (M5)	BAL	1168473	2007/02/19	2007/02/19	VP2
Particulates in Air (Filter)	BAL	1168471	2007/02/19	2007/02/19	VP2
Final Volume of Acetone Probe Rinse		1168725	2007/02/15	2007/02/16	VP2

Maxxam ID Q89804 Dup
Sample ID M29-RUN 1
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Mercury 3C in Air (HCl Impinger) by CVAA	CVAA	1170738	2007/02/22	2007/02/23	FFS
Mercury 3A in Air (HNO3 Rinse) by CVAA	CVAA	1169102	2007/02/22	2007/02/23	FFS
Mercury 2B in Air(HNO3/H2O2 Imp) by CVA	CVAA	1169068	2007/02/21	2007/02/22	FFS
Mercury 3B in Air (KMnO4/H2SO4) by CVA	CVAA	1169707	2007/02/22	2007/02/23	FFS
Mercury 1B -Air (Filter+Acetone) by CVAA	CVAA	1170165	2007/02/22	2007/02/23	FFS
Metals in Air (Combined) by ICP/MS	ICP1/MS	1169490	2007/02/21	2007/03/02	N R

Maxxam ID Q89805
Sample ID M29-RUN 2
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Mercury 3C in Air (HCl Impinger) by CVAA	CVAA	1170738	2007/02/22	2007/02/23	FFS
Mercury 3A in Air (HNO3 Rinse) by CVAA	CVAA	1169102	2007/02/22	2007/02/23	FFS
Mercury 2B in Air(HNO3/H2O2 Imp) by CVA	CVAA	1169068	2007/02/21	2007/02/22	FFS
Mercury 3B in Air (KMnO4/H2SO4) by CVA	CVAA	1169707	2007/02/22	2007/02/23	FFS
Mercury 1B -Air (Filter+Acetone) by CVAA	CVAA	1170165	2007/02/22	2007/02/23	FFS
Metals in Air (Combined) by ICP/MS	ICP1/MS	1169490	2007/02/21	2007/03/02	N R
Particulates in Air (Acetone Rinse) (M5)	BAL	1168473	2007/02/19	2007/02/19	VP2
Particulates in Air (Filter)	BAL	1168471	2007/02/19	2007/02/19	VP2
Final Volume of Acetone Probe Rinse		1168725	2007/02/15	2007/02/16	VP2

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

Test Summary

Maxxam ID Q89806
Sample ID M29-RUN 3
Matrix SAMPLING TRAIN

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Mercury 3C in Air (HCl Impinger) by CVAA	CVAA	1170738	2007/02/22	2007/02/23	FFS
Mercury 3A in Air (HNO3 Rinse) by CVAA	CVAA	1169102	2007/02/22	2007/02/23	FFS
Mercury 2B in Air (HNO3/H2O2 Imp) by CVA	CVAA	1169068	2007/02/21	2007/02/22	FFS
Mercury 3B in Air (KMnO4/H2SO4) by CVA	CVAA	1169707	2007/02/22	2007/02/23	FFS
Mercury 1B -Air (Filter+Acetone) by CVAA	CVAA	1170165	2007/02/22	2007/02/23	FFS
Metals in Air (Combined) by ICP/MS	ICP/MS	1169490	2007/02/21	2007/03/02	N R
Particulates in Air (Acetone Rinse) (M5)	BAL	1168473	2007/02/19	2007/02/19	VP2
Particulates in Air (Filter)	BAL	1168471	2007/02/19	2007/02/19	VP2
Final Volume of Acetone Probe Rinse		1168725	2007/02/15	2007/02/16	VP2

Maxxam ID Q89842
Sample ID M26A-BLANK H2SO4
Matrix Impinger Solution

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Hydrogen Halides by IC	IC/SPEC	1169655	2007/02/21	2007/02/21	LLE
Final Volume of Impinger		1169925	2007/02/23	2007/02/23	LLE

Maxxam ID Q89849
Sample ID M26A-RUN 1 H2SO4
Matrix Impinger Solution

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Hydrogen Halides by IC	IC/SPEC	1169655	2007/02/21	2007/02/21	LLE
Final Volume of Impinger		1169925	2007/02/23	2007/02/23	LLE

Maxxam ID Q89849 Dup
Sample ID M26A-RUN 1 H2SO4
Matrix Impinger Solution

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Hydrogen Halides by IC	IC/SPEC	1169655	2007/02/21	2007/02/21	LLE

Maxxam ID Q89850
Sample ID M26A-RUN 2 H2SO4
Matrix Impinger Solution

Collected 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Hydrogen Halides by IC	IC/SPEC	1169655	2007/02/21	2007/02/21	LLE
Final Volume of Impinger		1169925	2007/02/23	2007/02/23	LLE

Maxxam Job #: A713448
Report Date: 2007/03/06TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:**Test Summary****Maxxam ID** Q89851
Sample ID M26A-RUN 3 H2SO4
Matrix Impinger Solution**Collected** 2007/02/08
Shipped
Received 2007/02/10

Test Description	Instrumentation	Batch	Prepared	Analyzed	Analyst
Hydrogen Halides by IC	IC/SPEC	1169655	2007/02/21	2007/02/21	LLE
Final Volume of Impinger		1169925	2007/02/23	2007/02/23	LLE

Maxxam Job #: A713448
Report Date: 2007/03/06

TD*X Associates LP
Client Project #: 20705
Project name: FBR
Sampler Initials:

RESULTS OF ANALYSES OF SAMPLING TRAIN

Particulates in Air (Filter): Negative weights observed on all samples.

ELEMENTS BY ICP/MS (SAMPLING TRAIN)

Metals in Air (Combined) by ICP/MS: Post digestion duplicate and spike done on sample Q89804

Results relate only to the items tested.

TD*X Associates LP
Attention: Greg Meyers
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report
Maxxam Job Number: GA713448

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
1168473 VP2	Method Blank	Particulate Weight in Acetone Rinse	2007/02/19	ND, RDL=0.5		mg	
1168725 VP2	Method Blank	Volume	2007/02/16	98, RDL=1		ml	
1169068 FFS	MATRIX SPIKE (Q89804)	Total Mercury-2B	2007/02/22	0.00, RDL=0.92	114	ug	85 - 115
	MATRIX SPIKE DUP (Q89804)	Total Mercury-2B	2007/02/22	0.00, RDL=0.92	102	ug	85 - 115
	Spiked Blank	Total Mercury-2B	2007/02/22	0.10, RDL=0.01	104	ug	90 - 110
	Spiked Blank DUP	Total Mercury-2B	2007/02/22	0.11, RDL=0.01	105	ug	90 - 110
	Method Blank	Total Mercury-2B	2007/02/22	ND, RDL=0.01		ug	
	RPD	Total Mercury-2B	2007/02/22	1.4		%	20
1169102 FFS	MATRIX SPIKE (Q89804)	Total Mercury-3A	2007/02/23	0.10, RDL=0.01	97	ug	85 - 115
	MATRIX SPIKE DUP (Q89804)	Total Mercury-3A	2007/02/23	0.10, RDL=0.01	96	ug	85 - 115
	Spiked Blank	Total Mercury-3A	2007/02/23	0.10, RDL=0.01	95	ug	90 - 110
	Spiked Blank DUP	Total Mercury-3A	2007/02/23	0.10, RDL=0.01	96	ug	90 - 110
	Method Blank	Total Mercury-3A	2007/02/23	ND, RDL=0.01		ug	
	RPD	Total Mercury-3A	2007/02/23	NC		%	20
1169490 N_R	MATRIX SPIKE (Q89804)	Total Chromium (Cr)	2007/03/02	53.0, RDL=0.30	106	ug	70 - 130
	MATRIX SPIKE DUP (Q89804)	Total Chromium (Cr)	2007/03/02	51.5, RDL=0.30	103	ug	70 - 130
	MATRIX SPIKE (Q89804)	Total Lead (Pb)	2007/03/02	52.5, RDL=0.20	105	ug	70 - 130
	MATRIX SPIKE DUP (Q89804)	Total Lead (Pb)	2007/03/02	51.0, RDL=0.20	102	ug	70 - 130
	Spiked Blank	Total Chromium (Cr)	2007/03/02	53.5, RDL=0.30	107	ug	85 - 115
	Spiked Blank DUP	Total Chromium (Cr)	2007/03/02	54.0, RDL=0.30	108	ug	85 - 115
	Spiked Blank	Total Lead (Pb)	2007/03/02	55.5, RDL=0.20	111	ug	85 - 115
	Spiked Blank DUP	Total Lead (Pb)	2007/03/02	56.0, RDL=0.20	112	ug	85 - 115
	Method Blank	Total Chromium (Cr)	2007/03/02	ND, RDL=0.30		ug	
	Method Blank DUP	Total Chromium (Cr)	2007/03/02	ND, RDL=0.30		ug	
	Method Blank	Total Lead (Pb)	2007/03/02	ND, RDL=0.20		ug	
	Method Blank DUP	Total Lead (Pb)	2007/03/02	ND, RDL=0.20		ug	
	RPD	Total Chromium (Cr)	2007/03/02	0.9		%	20
		Total Lead (Pb)	2007/03/02	5.3		%	20
1169655 LLE	MATRIX SPIKE (Q89849)	Hydrochloric Acid	2007/02/21	0, RDL=200	98	ug	80 - 120
	Spiked Blank	Hydrochloric Acid	2007/02/21	0, RDL=200	97	ug	90 - 110
	Method Blank	Hydrochloric Acid	2007/02/21	ND, RDL=200		ug	
	RPD	Hydrochloric Acid	2007/02/21	3.3		%	20
1169707 FFS	MATRIX SPIKE (Q89804)	Total Mercury-3B	2007/02/23	0, RDL=5	105	ug	85 - 115
	MATRIX SPIKE DUP (Q89804)	Total Mercury-3B	2007/02/23	0, RDL=5	105	ug	85 - 115
	Spiked Blank	Total Mercury-3B	2007/02/23	0.47, RDL=0.05	94	ug	90 - 110
	Spiked Blank DUP	Total Mercury-3B	2007/02/23	0.46, RDL=0.05	91	ug	90 - 110
	Method Blank	Total Mercury-3B	2007/02/23	ND, RDL=0.05		ug	
	RPD	Total Mercury-3B	2007/02/23	0.1		%	20
1170165 FFS	MATRIX SPIKE (Q89804)	Total Mercury-1B	2007/02/23	0.30, RDL=0.03	99	ug	85 - 115
	MATRIX SPIKE DUP (Q89804)	Total Mercury-1B	2007/02/23	0.30, RDL=0.03	100	ug	85 - 115
	Spiked Blank	Total Mercury-1B	2007/02/23	0.29, RDL=0.03	96	ug	90 - 110
	Spiked Blank DUP	Total Mercury-1B	2007/02/23	0.28, RDL=0.03	92	ug	90 - 110

TD*X Associates LP
Attention: Greg Meyers
Client Project #: 20705
P.O. #:
Project name: FBR

Quality Assurance Report (Continued)

Maxxam Job Number: GA713448

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
1170165 FFS	Method Blank	Total Mercury-1B	2007/02/23	ND, RDL=0.03		ug	
	RPD	Total Mercury-1B	2007/02/23	NC		%	20
1170738 FFS	MATRIX SPIKE (Q89804)	Total Mercury-3C	2007/02/23	0.0, RDL=2.5	105	ug	85 - 115
	MATRIX SPIKE DUP (Q89804)	Total Mercury-3C	2007/02/23	0.0, RDL=2.5	97	ug	85 - 115
	Spiked Blank	Total Mercury-3C	2007/02/23	0.47, RDL=0.05	94	ug	90 - 110
	Spiked Blank DUP	Total Mercury-3C	2007/02/23	0.49, RDL=0.05	97	ug	90 - 110
	Method Blank	Total Mercury-3C	2007/02/23	ND, RDL=0.05		ug	
	RPD	Total Mercury-3C	2007/02/23	1.6		%	20

ND = Not detected
NC = Non-calculable
RPD = Relative Percent Difference
SPIKE = Fortified sample

Appendix D

Emissions Test Calculations

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	MM5	FILE:	
UNIT:	Direct Fired			START TIME:	09:00 TIME:
DATE:	08-Feb-07		PCBR1	END TIME:	14:50 240
LENGTH:	74.00	WIDTH:	26.00		
As (SQFT)	13.36			K =	15.40

		1 = ALL THE WAY IN	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	1.0122	1st Meter A1	0.85	0.92	0.68	53	53	349
Y =	0.98143	2nd Meter 2	0.95	0.97	0.76	57	57	357
PITOT CO	0.84	3	0.85	0.92	0.68	60	60	361
		4	0.9	0.95	0.72	61	61	363
IMP-1 IN	200	5	0.9	0.95	0.72	62	62	362
IMP-2 IN	0	6	0.75	0.87	0.60	64	64	354
IMP-3 IN	0	B1	1.1	1.05	0.88	62	62	370
IMP-4 IN	248.5	2	0.9	0.95	0.72	63	63	369
		3	0.73	0.85	0.58	64	64	363
		4	0.73	0.85	0.58	52	52	376
		5	0.9	0.95	0.63	54	54	374
	49.63 %moisture	6	0.7	0.84	0.56	64	64	354
IMP-1FIN	2504	2304 C1	1.2	1.10	0.96	67	67	377
IMP-2FIN	0	0 2	0.98	0.99	0.78	68	68	375
IMP-3FIN	0	0 3	0.88	0.94	0.70	71	71	374
IMP-4FIN	282.6	34.1 4	0.72	0.85	0.57	68	68	372
		2338.1 5	0.63	0.79	0.49	69	69	372
		6	0.3	0.55	0.24	69	69	362
		D1	1.1	1.05	0.88	72	72	376
		2	0.98	0.99	0.78	73	73	372
		3	0.94	0.97	0.75	73	73	374
		4	0.8	0.89	0.64	74	74	368
		5	0.67	0.82	0.53	75	75	369
		6	0.48	0.69	0.38	74	74	342

Pstd	29.92						
Tstd	68						
% CO2	5.99	AVERAGE	0.831	0.904	0.659	65.375	366.042
% O2	9.10		0.818 ENTROPY VALUE				
% CO	0.00						
% N2	84.91						
P BAR =	29.95	TS (°R) =	826.0	DELTA H (ABS) =	30.00		
P STK =	-0.05			PS (ABS) =	29.95		

2nd Meter	68.614	TM (°R) =	525.4	V1 (TOT) =	2338.10
LEAK CHK					
1st Meter	43.006				
VM (ACF) =	111.62			43.86 DSCF 1st Meter Box	
		(VM)(Y)(DELTA H ABS)		67.85 DSCF 2nd Meter Box	
VM STD =	(Tstd/Pstd)			111.72 DSCF total	
		(TM)			

VW STD =	0.4707 (VI TOT)		110.05 CF
	VW (STD)		
BWO =			0.496
	VW STD + VM STD		49.63 % MOIST

1 - BWO =	1 - BWO		0.504
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Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		29.3224 LBS/LB MOLE
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Ms (wet) =	MD (1-BWO) + 18 (BWO)		23.70 LBS/LB MOLE
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G =	SQRT (TS / PS / MS)		1.08
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VS =	85.49(CP)(G)(SQRT DELTA P)avg		70.0467 FPS
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QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)		1085385.423 DSCFH 18090 DSCFM 56188 ACFM 35911 SCFM
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ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	MM5	FILE:	0			
UNIT:	Direct Fired		PCBR1	START TIME:		09:00	TIME:	
DATE:	39121			END TIME:		14:50		240
Ds =	74.00							
As (SQFT)	4298.66							
Dn =	0.245							
An =	0.00033	A1	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	1.0122	2	0.85	0.92	0.68	53	53	349
PITOT CO	0.84	3	0.95	0.97	0.76	57	57	357
		4	0.85	0.92	0.68	60	60	361
		5	0.9	0.95	0.72	61	61	363
IMP-1 IN	200	5	0.9	0.95	0.72	62	62	362
IMP-2 IN	0	0 6	0.75	0.87	0.60	64	64	354
IMP-3 IN	0	0 B1	1.1	1.05	0.88	62	62	370
IMP-4 IN	248.5	2	0.9	0.95	0.72	63	63	369
		3	0.73	0.85	0.58	64	64	363
IMP-1FIN	2504	4	0.73	0.85	0.58	52	52	376
IMP-2FIN	0	5	0.9	0.95	0.63	54	54	374
IMP-3FIN	0	6	0.7	0.84	0.56	64	64	354
IMP-4FIN	282.6	C1	1.2	1.10	0.96	67	67	377
		2	0.98	0.99	0.78	68	68	375
		3	0.88	0.94	0.70	71	71	374
		4	0.72	0.85	0.57	68	68	372
		5	0.63	0.79	0.49	69	69	372
		6	0.3	0.55	0.24	69	69	362
		D1	1.1	1.05	0.88	72	72	376
		2	0.98	0.99	0.78	73	73	372
		3	0.94	0.97	0.75	73	73	374
		4	0.8	0.89	0.64	74	74	368
		5	0.67	0.82	0.53	75	75	369
		6	0.48	0.69	0.38	74	74	342
Pstd	29.92							
Tstd	68							
% CO2	5.99							
% O2	9.1	AVERAGE	0.831	0.904	0.659	65.375	65.375	366.042
% CO	0							
% N2	84.91							
P BAR =	29.95							
P STK =	-0.05							
			TS (R) =	826.0	DELTA H (ABS) =			30.00
FINAL METER =	68.614		TM (F) =	65.4	PS (ABS) =			29.95
LEAK CHK	0		TM (R) =	525.4	V1 (TOT) =			2338.1
INT METER =	43.006							
VM (ACF) =	111.62							
			(VM)(Y)(DELTA H ABS)					
VM STD =	(Tstd/Pstd)					113.84	DSCF	
			(TM)					
VW STD =	0.4707 (VI TOT)					110.05	CF	
			VW (STD)					
BWO =						0.492		
			VW STD + VM STD			49.15		
1- BWO =			1 - BWO			0.508		
MD(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)					29.3224	LBS/LB MOLE	
Ms (wet) =			MD (1-BWO)					
			+ 18 (BWO)					
						23.76	LBS/LB MOLE	
G =	SQRT (TS / PS / MS)					1.08		
VS =	85.49(CP)(G)(SQRT DELTA P)					69.97	FPS	
H =	.002669 (V1 TOT)					6.24		
J =	(DELTA H ABS) (VM) (Y)/(TM)					6.45		
K =	(H) + (J)					12.69		
% ISO =	(TS) (K) (1.667)							
						106.2	%	
			(TIME) (VS) (PS) (AN)					

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
2-MonoCB-(1)	220	2-MonoCB-(1)	0.00007	2-MonoCB-(1)	0.00000	2-MonoCB-(1)	4.712E-06
3-MonoCB-(2)	128	3-MonoCB-(2)	0.00004	3-MonoCB-(2)	0.00000	3-MonoCB-(2)	2.742E-06
4-MonoCB-(3)	206	4-MonoCB-(3)	0.00007	4-MonoCB-(3)	0.00000	4-MonoCB-(3)	4.412E-06
22'-DiCB-(4)	210	22'-DiCB-(4)	0.00007	22'-DiCB-(4)	0.00000	22'-DiCB-(4)	4.498E-06
2,3-DiCB-(5)	10.2	2,3-DiCB-(5)	0.00000	2,3-DiCB-(5)	0.00000	2,3-DiCB-(5)	2.185E-07
2,3'-DiCB-(6)	116	2,3'-DiCB-(6)	0.00004	2,3'-DiCB-(6)	0.00000	2,3'-DiCB-(6)	2.485E-06
2,4-DiCB-(7)	48.1	2,4-DiCB-(7)	0.00002	2,4-DiCB-(7)	0.00000	2,4-DiCB-(7)	1.03E-06
2,4'-DiCB-(8)	250	2,4'-DiCB-(8)	0.00008	2,4'-DiCB-(8)	0.00000	2,4'-DiCB-(8)	5.355E-06
2,5-DiCB-(9)	69.2	2,5-DiCB-(9)	0.00002	2,5-DiCB-(9)	0.00000	2,5-DiCB-(9)	1.482E-06
2,6-DiCB-(10)	24.7	2,6-DiCB-(10)	0.00001	2,6-DiCB-(10)	0.00000	2,6-DiCB-(10)	5.291E-07
3,3'-DiCB-(11)	33.5	3,3'-DiCB-(11)	0.00001	3,3'-DiCB-(11)	0.00000	3,3'-DiCB-(11)	7.175E-07
DiCB-(12)+(13)	97.6	DiCB-(12)+(13)	0.00003	DiCB-(12)+(13)	0.00000	DiCB-(12)+(13)	2.091E-06
3,5-DiCB-(14)	0.98	3,5-DiCB-(14)	0.00000	3,5-DiCB-(14)	0.00000	3,5-DiCB-(14)	2.099E-08
4,4'-DiCB-(15)	209	4,4'-DiCB-(15)	0.00007	4,4'-DiCB-(15)	0.00000	4,4'-DiCB-(15)	4.477E-06
22'3'-TriCB-(16)	148	22'3'-TriCB-(16)	0.00005	22'3'-TriCB-(16)	0.00000	22'3'-TriCB-(16)	3.17E-06
22'4'-TriCB-(17)	144	22'4'-TriCB-(17)	0.00005	22'4'-TriCB-(17)	0.00000	22'4'-TriCB-(17)	3.084E-06
TriCB-(18)+(30)	300	TriCB-(18)+(30)	0.00009	TriCB-(18)+(30)	0.00000	TriCB-(18)+(30)	6.426E-06
22'6'-TriCB-(19)	65.2	22'6'-TriCB-(19)	0.00002	22'6'-TriCB-(19)	0.00000	22'6'-TriCB-(19)	1.397E-06
TriCB-(20) + (28)	453	TriCB-(20) + (28)	0.00014	TriCB-(20) + (28)	0.00000	TriCB-(20) + (28)	9.703E-06
TriCB-(21)+(33)	129	TriCB-(21)+(33)	0.00004	TriCB-(21)+(33)	0.00000	TriCB-(21)+(33)	2.763E-06
234'-TriCB-(22)	129	234'-TriCB-(22)	0.00004	234'-TriCB-(22)	0.00000	234'-TriCB-(22)	2.763E-06
235'-TriCB-(23)	0.67	235'-TriCB-(23)	0.00000	235'-TriCB-(23)	0.00000	235'-TriCB-(23)	1.435E-08
236'-TriCB-(24)	6.03	236'-TriCB-(24)	0.00000	236'-TriCB-(24)	0.00000	236'-TriCB-(24)	1.292E-07
23'4'-TriCB-(25)	42.2	23'4'-TriCB-(25)	0.00001	23'4'-TriCB-(25)	0.00000	23'4'-TriCB-(25)	9.039E-07
TriCB-(26)+(29)	86.9	TriCB-(26)+(29)	0.00003	TriCB-(26)+(29)	0.00000	TriCB-(26)+(29)	1.861E-06
23'6'-TriCB-(27)	22.1	23'6'-TriCB-(27)	0.00001	23'6'-TriCB-(27)	0.00000	23'6'-TriCB-(27)	4.734E-07
24'5'-TriCB-(31)	322	24'5'-TriCB-(31)	0.00010	24'5'-TriCB-(31)	0.00000	24'5'-TriCB-(31)	6.897E-06
24'6'-TriCB-(32)	118	24'6'-TriCB-(32)	0.00004	24'6'-TriCB-(32)	0.00000	24'6'-TriCB-(32)	2.527E-06
23'5'-TriCB-(34)	1.91	23'5'-TriCB-(34)	0.00000	23'5'-TriCB-(34)	0.00000	23'5'-TriCB-(34)	4.091E-08
33'4'-TriCB-(35)	21.4	33'4'-TriCB-(35)	0.00001	33'4'-TriCB-(35)	0.00000	33'4'-TriCB-(35)	4.584E-07
33'5'-TriCB-(36)	0.71	33'5'-TriCB-(36)	0.00000	33'5'-TriCB-(36)	0.00000	33'5'-TriCB-(36)	1.521E-08
344'-TriCB-(37)	122	344'-TriCB-(37)	0.00004	344'-TriCB-(37)	0.00000	344'-TriCB-(37)	2.613E-06
345'-TriCB-(38)	0.43	345'-TriCB-(38)	0.00000	345'-TriCB-(38)	0.00000	345'-TriCB-(38)	9.21E-09
34'5'-TriCB-(39)	2.48	34'5'-TriCB-(39)	0.00000	34'5'-TriCB-(39)	0.00000	34'5'-TriCB-(39)	5.312E-08
TetraCB-(40)+(41)+(71)	160	TetraCB-(40)+(41)+(71)	0.00005	TetraCB-(40)+(41)+(71)	0.00000	TetraCB-(40)+(41)+(71)	3.427E-06
22'34'-TetraCB-(42)	ND	22'34'-TetraCB-(42)	0.00000	22'34'-TetraCB-(42)	0.00000	22'34'-TetraCB-(42)	0
22'35'-TetraCB-(43)	13	22'35'-TetraCB-(43)	0.00000	22'35'-TetraCB-(43)	0.00000	22'35'-TetraCB-(43)	2.785E-07
TetraCB-(44)+(47)+(65)	293	TetraCB-(44)+(47)+(65)	0.00009	TetraCB-(44)+(47)+(65)	0.00000	TetraCB-(44)+(47)+(65)	6.276E-06
TetraCB-(45)+(51)	63.5	TetraCB-(45)+(51)	0.00002	TetraCB-(45)+(51)	0.00000	TetraCB-(45)+(51)	1.36E-06
22'36'-TetraCB-(46)	24.5	22'36'-TetraCB-(46)	0.00001	22'36'-TetraCB-(46)	0.00000	22'36'-TetraCB-(46)	5.248E-07
22'45'-TetraCB-(48)	63.7	22'45'-TetraCB-(48)	0.00002	22'45'-TetraCB-(48)	0.00000	22'45'-TetraCB-(48)	1.364E-06
TetraCB-(49)+TetraCB-(69)	182	TetraCB-(49)+TetraCB-(69)	0.00006	TetraCB-(49)+TetraCB-(69)	0.00000	TetraCB-(49)+TetraCB-(69)	3.898E-06
TetraCB-(50)+(53)	56.4	TetraCB-(50)+(53)	0.00002	TetraCB-(50)+(53)	0.00000	TetraCB-(50)+(53)	1.208E-06
22'55'-TetraCB-(52)	318	22'55'-TetraCB-(52)	0.00010	22'55'-TetraCB-(52)	0.00000	22'55'-TetraCB-(52)	6.811E-06
22'66'-TetraCB-(54)	2.06	22'66'-TetraCB-(54)	0.00000	22'66'-TetraCB-(54)	0.00000	22'66'-TetraCB-(54)	4.412E-08
233'4'-TetraCB-(55)	3.63	233'4'-TetraCB-(55)	0.00000	233'4'-TetraCB-(55)	0.00000	233'4'-TetraCB-(55)	7.775E-08
233'4'-Tetra CB(56)	84.4	233'4'-Tetra CB(56)	0.00003	233'4'-Tetra CB(56)	0.00000	233'4'-Tetra CB(56)	1.808E-06
233'5'-TetraCB-(57)	1.42	233'5'-TetraCB-(57)	0.00000	233'5'-TetraCB-(57)	0.00000	233'5'-TetraCB-(57)	3.042E-08
233'5'-TetraCB-(58)	ND	233'5'-TetraCB-(58)	0.00000	233'5'-TetraCB-(58)	0.00000	233'5'-TetraCB-(58)	0
TetraCB-(59)+(62)+(75)	58.2	TetraCB-(59)+(62)+(75)	0.00002	TetraCB-(59)+(62)+(75)	0.00000	TetraCB-(59)+(62)+(75)	1.247E-06
2344'-TetraCB -(60)	46.5	2344'-TetraCB -(60)	0.00001	2344'-TetraCB -(60)	0.00000	2344'-TetraCB -(60)	9.96E-07
TetraCB-(61)+(70)+(74)+(76)	380	TetraCB-(61)+(70)+(74)+(76)	0.00012	TetraCB-(61)+(70)+(74)+(76)	0.00000	TetraCB-(61)+(70)+(74)+(76)	8.139E-06
234'5'-TetraCB-(63)	9.28	234'5'-TetraCB-(63)	0.00000	234'5'-TetraCB-(63)	0.00000	234'5'-TetraCB-(63)	1.988E-07
234'6'-TetraCB-(64)	154	234'6'-TetraCB-(64)	0.00005	234'6'-TetraCB-(64)	0.00000	234'6'-TetraCB-(64)	3.299E-06
23'44'-TetraCB-(66)	209	23'44'-TetraCB-(66)	0.00007	23'44'-TetraCB-(66)	0.00000	23'44'-TetraCB-(66)	4.477E-06
23'45'-TetraCB-(67)	9.72	23'45'-TetraCB-(67)	0.00000	23'45'-TetraCB-(67)	0.00000	23'45'-TetraCB-(67)	2.082E-07
23'45'-TetraCB-(68)	1.95	23'45'-TetraCB-(68)	0.00000	23'45'-TetraCB-(68)	0.00000	23'45'-TetraCB-(68)	4.177E-08
23'55'-TetraCB-(72)	1.92	23'55'-TetraCB-(72)	0.00000	23'55'-TetraCB-(72)	0.00000	23'55'-TetraCB-(72)	4.113E-08
23'5'6'-TetraCB-(73)	ND	23'5'6'-TetraCB-(73)	0.00000	23'5'6'-TetraCB-(73)	0.00000	23'5'6'-TetraCB-(73)	0
33'44'-TetraCB-(77)	22.8	33'44'-TetraCB-(77)	0.00001	33'44'-TetraCB-(77)	0.00000	33'44'-TetraCB-(77)	4.884E-07
33'45'-TetraCB-(78)	0.21	33'45'-TetraCB-(78)	0.00000	33'45'-TetraCB-(78)	0.00000	33'45'-TetraCB-(78)	4.498E-09
33'45'-TetraCB(79)	ND	33'45'-TetraCB(79)	0.00000	33'45'-TetraCB(79)	0.00000	33'45'-TetraCB(79)	0
33'55'-TetraCB-(80)	ND	33'55'-TetraCB-(80)	0.00000	33'55'-TetraCB-(80)	0.00000	33'55'-TetraCB-(80)	0
344'5'-TetraCB-(81)	1.08	344'5'-TetraCB-(81)	0.00000	344'5'-TetraCB-(81)	0.00000	344'5'-TetraCB-(81)	2.313E-08
22'33'4'-PentaCB-(82)	23.7	22'33'4'-PentaCB-(82)	0.00001	22'33'4'-PentaCB-(82)	0.00000	22'33'4'-PentaCB-(82)	5.076E-07
PentaCB-(83)+(99)	85	PentaCB-(83)+(99)	0.00003	PentaCB-(83)+(99)	0.00000	PentaCB-(83)+(99)	1.821E-06
22'33'6'-PentaCB-(84)	49.1	22'33'6'-PentaCB-(84)	0.00002	22'33'6'-PentaCB-(84)	0.00000	22'33'6'-PentaCB-(84)	1.052E-06
PentaCB-(85)+(116)+(117)	29.1	PentaCB-(85)+(116)+(117)	0.00001	PentaCB-(85)+(116)+(117)	0.00000	PentaCB-(85)+(116)+(117)	6.233E-07
entaCB-(86)(87)(97)(109)(119)(125)	100	entaCB-(86)(87)(97)(109)(119)(125)	0.00003	entaCB-(86)(87)(97)(109)(119)(125)	0.00000	entaCB-(86)(87)(97)(109)(119)(125)	2.142E-06
PentaCB-(88)+(91)	30.1	PentaCB-(88)+(91)	0.00001	PentaCB-(88)+(91)	0.00000	PentaCB-(88)+(91)	6.447E-07
22'346'-PentaCB-(89)	ND	22'346'-PentaCB-(89)	0.00000	22'346'-PentaCB-(89)	0.00000	22'346'-PentaCB-(89)	0
PentaCB-(90)+(101)+(113)	123	PentaCB-(90)+(101)+(113)	0.00004	PentaCB-(90)+(101)+(113)	0.00000	PentaCB-(90)+(101)+(113)	2.635E-06
22'355'-PentaCB-(92)	22.5	22'355'-PentaCB-(92)	0.00001	22'355'-PentaCB-(92)	0.00000	22'355'-PentaCB-(92)	4.819E-07
PentaCB-(93)+(98)+(100)+(102)	11.7	PentaCB-(93)+(98)+(100)+(102)	0.00000	PentaCB-(93)+(98)+(100)+(102)	0.00000	PentaCB-(93)+(98)+(100)+(102)	2.506E-07
22'356'-PentaCB-(94)	1.43	22'356'-PentaCB-(94)	0.00000	22'356'-PentaCB-(94)	0.00000	22'356'-PentaCB-(94)	3.063E-08
22'35'6'-PentaCB-(95)	118	22'35'6'-PentaCB-(95)	0.00004	22'35'6'-PentaCB-(95)	0.00000	22'35'6'-PentaCB-(95)	2.527E-06

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
22'366'-PentaCB-(96)	3.49	22'366'-PentaCB-(96)	0.00000	22'366'-PentaCB-(96)	0.00000	22'366'-PentaCB-(96)	7.475E-08
22'45'6'-PentaCB-(103)	1.27	22'45'6'-PentaCB-(103)	0.00000	22'45'6'-PentaCB-(103)	0.00000	22'45'6'-PentaCB-(103)	2.72E-08
22'466'-PentaCB-(104)	ND	22'466'-PentaCB-(104)	0.00000	22'466'-PentaCB-(104)	0.00000	22'466'-PentaCB-(104)	0
233'44'-PentaCB-(105)	40.7	233'44'-PentaCB-(105)	0.00001	233'44'-PentaCB-(105)	0.00000	233'44'-PentaCB-(105)	8.718E-07
233'45'-PentaCB-(106)	ND	233'45'-PentaCB-(106)	0.00000	233'45'-PentaCB-(106)	0.00000	233'45'-PentaCB-(106)	0
233'4'5'-PentaCB-(107)	7.68	233'4'5'-PentaCB-(107)	0.00000	233'4'5'-PentaCB-(107)	0.00000	233'4'5'-PentaCB-(107)	1.645E-07
PentaCB-(108)+(124)	3.75	PentaCB-(108)+(124)	0.00000	PentaCB-(108)+(124)	0.00000	PentaCB-(108)+(124)	8.032E-08
PentaCB-(110)+(115)	157	PentaCB-(110)+(115)	0.00005	PentaCB-(110)+(115)	0.00000	PentaCB-(110)+(115)	3.363E-06
233'55'-PentaCB-(111)	ND	233'55'-PentaCB-(111)	0.00000	233'55'-PentaCB-(111)	0.00000	233'55'-PentaCB-(111)	0
233'56'-PentaCB-(112)	ND	233'56'-PentaCB-(112)	0.00000	233'56'-PentaCB-(112)	0.00000	233'56'-PentaCB-(112)	0
2344'5'-PentaCB-(114)	3.09	2344'5'-PentaCB-(114)	0.00000	2344'5'-PentaCB-(114)	0.00000	2344'5'-PentaCB-(114)	6.619E-08
23'44'5'-PentaCB-(118)	102	23'44'5'-PentaCB-(118)	0.00003	23'44'5'-PentaCB-(118)	0.00000	23'44'5'-PentaCB-(118)	2.185E-06
23'455'-PentaCB-(120)	0.461	23'455'-PentaCB-(120)	0.00000	23'455'-PentaCB-(120)	0.00000	23'455'-PentaCB-(120)	9.874E-09
23'45'6'-PentaCB-(121)	ND	23'45'6'-PentaCB-(121)	0.00000	23'45'6'-PentaCB-(121)	0.00000	23'45'6'-PentaCB-(121)	0
233'4'5'-PentaCB-(122)	1.82	233'4'5'-PentaCB-(122)	0.00000	233'4'5'-PentaCB-(122)	0.00000	233'4'5'-PentaCB-(122)	3.898E-08
23'44'5'-PentaCB-(123)	1.8	23'44'5'-PentaCB-(123)	0.00000	23'44'5'-PentaCB-(123)	0.00000	23'44'5'-PentaCB-(123)	3.855E-08
33'44'5'-PentaCB-(126)	0.62	33'44'5'-PentaCB-(126)	0.00000	33'44'5'-PentaCB-(126)	0.00000	33'44'5'-PentaCB-(126)	1.328E-08
33'455'-PentaCB-(127)	ND	33'455'-PentaCB-(127)	0.00000	33'455'-PentaCB-(127)	0.00000	33'455'-PentaCB-(127)	0
HexaCB-(128)+(166)	12	HexaCB-(128)+(166)	0.00000	HexaCB-(128)+(166)	0.00000	HexaCB-(128)+(166)	2.57E-07
HexaCB-(129)+(138)+(163)	88.5	HexaCB-(129)+(138)+(163)	0.00003	HexaCB-(129)+(138)+(163)	0.00000	HexaCB-(129)+(138)+(163)	1.896E-06
22'33'45'-HexaCB-(130)	5.86	22'33'45'-HexaCB-(130)	0.00000	22'33'45'-HexaCB-(130)	0.00000	22'33'45'-HexaCB-(130)	1.255E-07
22'33'46'-HexaCB-(131)	1.44	22'33'46'-HexaCB-(131)	0.00000	22'33'46'-HexaCB-(131)	0.00000	22'33'46'-HexaCB-(131)	3.084E-08
22'33'46'-HexaCB-(132)	35.3	22'33'46'-HexaCB-(132)	0.00001	22'33'46'-HexaCB-(132)	0.00000	22'33'46'-HexaCB-(132)	7.561E-07
22'33'55'-HexaCB-(133)	1.2	22'33'55'-HexaCB-(133)	0.00000	22'33'55'-HexaCB-(133)	0.00000	22'33'55'-HexaCB-(133)	2.57E-08
HexaCB-(134)+(143)	4.51	HexaCB-(134)+(143)	0.00000	HexaCB-(134)+(143)	0.00000	HexaCB-(134)+(143)	9.66E-08
HexaCB-(135)+(151)	29.1	HexaCB-(135)+(151)	0.00001	HexaCB-(135)+(151)	0.00000	HexaCB-(135)+(151)	6.233E-07
22'33'66'-HexaCB-(136)	14.6	22'33'66'-HexaCB-(136)	0.00000	22'33'66'-HexaCB-(136)	0.00000	22'33'66'-HexaCB-(136)	3.127E-07
22'344'5'-HexaCB-(137)	3.96	22'344'5'-HexaCB-(137)	0.00000	22'344'5'-HexaCB-(137)	0.00000	22'344'5'-HexaCB-(137)	8.482E-08
HexaCB-(139)+(140)	1.8	HexaCB-(139)+(140)	0.00000	HexaCB-(139)+(140)	0.00000	HexaCB-(139)+(140)	3.855E-08
22'3455'-HexaCB-(141)	13.6	22'3455'-HexaCB-(141)	0.00000	22'3455'-HexaCB-(141)	0.00000	22'3455'-HexaCB-(141)	2.913E-07
22'3456'-HexaCB-(142)	ND	22'3456'-HexaCB-(142)	0.00000	22'3456'-HexaCB-(142)	0.00000	22'3456'-HexaCB-(142)	0
22'345'6'-HexaCB-(144)	4.03	22'345'6'-HexaCB-(144)	0.00000	22'345'6'-HexaCB-(144)	0.00000	22'345'6'-HexaCB-(144)	8.632E-08
22'3466'-HexaCB-(145)	0.066	22'3466'-HexaCB-(145)	0.00000	22'3466'-HexaCB-(145)	0.00000	22'3466'-HexaCB-(145)	1.414E-09
22'34'55'-HexaCB-(146)	11.7	22'34'55'-HexaCB-(146)	0.00000	22'34'55'-HexaCB-(146)	0.00000	22'34'55'-HexaCB-(146)	2.506E-07
HexaCB-(147)+(149)	71.4	HexaCB-(147)+(149)	0.00002	HexaCB-(147)+(149)	0.00000	HexaCB-(147)+(149)	1.529E-06
22'34'56'-HexaCB-(148)	0.136	22'34'56'-HexaCB-(148)	0.00000	22'34'56'-HexaCB-(148)	0.00000	22'34'56'-HexaCB-(148)	2.913E-09
22'34'66'-HexaCB-(150)	0.219	22'34'66'-HexaCB-(150)	0.00000	22'34'66'-HexaCB-(150)	0.00000	22'34'66'-HexaCB-(150)	4.691E-09
22'3566'-HexaCB-(152)	0.237	22'3566'-HexaCB-(152)	0.00000	22'3566'-HexaCB-(152)	0.00000	22'3566'-HexaCB-(152)	5.076E-09
HexaCB-(153)+(168)	65	HexaCB-(153)+(168)	0.00002	HexaCB-(153)+(168)	0.00000	HexaCB-(153)+(168)	1.392E-06
22'44'56'-HexaCB-(154)	1.01	22'44'56'-HexaCB-(154)	0.00000	22'44'56'-HexaCB-(154)	0.00000	22'44'56'-HexaCB-(154)	2.163E-08
22'44'66'-HexaCB-(155)	0.05	22'44'66'-HexaCB-(155)	0.00000	22'44'66'-HexaCB-(155)	0.00000	22'44'66'-HexaCB-(155)	1.071E-09
HexaCB-(156)+(157)	7.71	HexaCB-(156)+(157)	0.00000	HexaCB-(156)+(157)	0.00000	HexaCB-(156)+(157)	1.651E-07
233'44'6'-HexaCB-(158)	7.53	233'44'6'-HexaCB-(158)	0.00000	233'44'6'-HexaCB-(158)	0.00000	233'44'6'-HexaCB-(158)	1.613E-07
233'455'-HexaCB-(159)	0.634	233'455'-HexaCB-(159)	0.00000	233'455'-HexaCB-(159)	0.00000	233'455'-HexaCB-(159)	1.358E-08
233'456'-HexaCB-(160)	ND	233'456'-HexaCB-(160)	0.00000	233'456'-HexaCB-(160)	0.00000	233'456'-HexaCB-(160)	0
233'45'6'-HexaCB-(161)	ND	233'45'6'-HexaCB-(161)	0.00000	233'45'6'-HexaCB-(161)	0.00000	233'45'6'-HexaCB-(161)	0
233'4'55'-HexaCB-(162)	0.301	233'4'55'-HexaCB-(162)	0.00000	233'4'55'-HexaCB-(162)	0.00000	233'4'55'-HexaCB-(162)	6.447E-09
233'4'5'6'-HexaCB-(164)	5.18	233'4'5'6'-HexaCB-(164)	0.00000	233'4'5'6'-HexaCB-(164)	0.00000	233'4'5'6'-HexaCB-(164)	1.11E-07
233'55'6'-HexaCB-(165)	ND	233'55'6'-HexaCB-(165)	0.00000	233'55'6'-HexaCB-(165)	0.00000	233'55'6'-HexaCB-(165)	0
23'44'55'-HexaCB-(167)	2.93	23'44'55'-HexaCB-(167)	0.00000	23'44'55'-HexaCB-(167)	0.00000	23'44'55'-HexaCB-(167)	6.276E-08
33'44'55'-HexaCB-(169)	ND	33'44'55'-HexaCB-(169)	0.00000	33'44'55'-HexaCB-(169)	0.00000	33'44'55'-HexaCB-(169)	0
22'33'44'5'-HeptaCB-(170)	15.5	22'33'44'5'-HeptaCB-(170)	0.00000	22'33'44'5'-HeptaCB-(170)	0.00000	22'33'44'5'-HeptaCB-(170)	3.32E-07
HeptaCB-(171)+(173)	5.83	HeptaCB-(171)+(173)	0.00000	HeptaCB-(171)+(173)	0.00000	HeptaCB-(171)+(173)	1.249E-07
22'33'455'-HeptaCB-(172)	3.04	22'33'455'-HeptaCB-(172)	0.00000	22'33'455'-HeptaCB-(172)	0.00000	22'33'455'-HeptaCB-(172)	6.511E-08
22'33'456'-HeptaCB-(174)	19.8	22'33'456'-HeptaCB-(174)	0.00001	22'33'456'-HeptaCB-(174)	0.00000	22'33'456'-HeptaCB-(174)	4.241E-07
22'33'45'6'-HeptaCB-(175)	0.922	22'33'45'6'-HeptaCB-(175)	0.00000	22'33'45'6'-HeptaCB-(175)	0.00000	22'33'45'6'-HeptaCB-(175)	1.975E-08
22'33'466'-HeptaCB-(176)	2.85	22'33'466'-HeptaCB-(176)	0.00000	22'33'466'-HeptaCB-(176)	0.00000	22'33'466'-HeptaCB-(176)	6.105E-08
22'33'45'6'-HeptaCB-(177)	11.6	22'33'45'6'-HeptaCB-(177)	0.00000	22'33'45'6'-HeptaCB-(177)	0.00000	22'33'45'6'-HeptaCB-(177)	2.485E-07
22'33'55'6'-HeptaCB-(178)	3.76	22'33'55'6'-HeptaCB-(178)	0.00000	22'33'55'6'-HeptaCB-(178)	0.00000	22'33'55'6'-HeptaCB-(178)	8.054E-08
22'33'566'-HeptaCB-(179)	9.09	22'33'566'-HeptaCB-(179)	0.00000	22'33'566'-HeptaCB-(179)	0.00000	22'33'566'-HeptaCB-(179)	1.947E-07
HeptaCB-(180)+(193)	33.2	HeptaCB-(180)+(193)	0.00001	HeptaCB-(180)+(193)	0.00000	HeptaCB-(180)+(193)	7.111E-07
22'344'56'-HeptaCB-(181)	0.152	22'344'56'-HeptaCB-(181)	0.00000	22'344'56'-HeptaCB-(181)	0.00000	22'344'56'-HeptaCB-(181)	3.256E-09
22'344'56'-HeptaCB-(182)	0.171	22'344'56'-HeptaCB-(182)	0.00000	22'344'56'-HeptaCB-(182)	0.00000	22'344'56'-HeptaCB-(182)	3.663E-09
22'344'5'6'-HeptaCB-(183)	12.4	22'344'5'6'-HeptaCB-(183)	0.00000	22'344'5'6'-HeptaCB-(183)	0.00000	22'344'5'6'-HeptaCB-(183)	2.656E-07
22'344'66'-HeptaCB-(184)	ND	22'344'66'-HeptaCB-(184)	0.00000	22'344'66'-HeptaCB-(184)	0.00000	22'344'66'-HeptaCB-(184)	0
22'3455'6'-HeptaCB-(185)	ND	22'3455'6'-HeptaCB-(185)	0.00000	22'3455'6'-HeptaCB-(185)	0.00000	22'3455'6'-HeptaCB-(185)	0
22'34566'-HeptaCB-(186)	ND	22'34566'-HeptaCB-(186)	0.00000	22'34566'-HeptaCB-(186)	0.00000	22'34566'-HeptaCB-(186)	0
22'34'55'6'-HeptaCB-(187)	22	22'34'55'6'-HeptaCB-(187)	0.00001	22'34'55'6'-HeptaCB-(187)	0.00000	22'34'55'6'-HeptaCB-(187)	4.712E-07
22'34'566'-HeptaCB-(188)	0.082	22'34'566'-HeptaCB-(188)	0.00000	22'34'566'-HeptaCB-(188)	0.00000	22'34'566'-HeptaCB-(188)	1.756E-09
233'44'55'-HeptaCB-(189)	0.48	233'44'55'-HeptaCB-(189)	0.00000	233'44'55'-HeptaCB-(189)	0.00000	233'44'55'-HeptaCB-(189)	1.028E-08
233'44'56'-HeptaCB-(190)	2.4	233'44'56'-HeptaCB-(190)	0.00000	233'44'56'-HeptaCB-(190)	0.00000	233'44'56'-HeptaCB-(190)	5.141E-08
233'44'5'6'-HeptaCB-(191)	0.581	233'44'5'6'-HeptaCB-(191)	0.00000	233'44'5'6'-HeptaCB-(191)	0.00000	233'44'5'6'-HeptaCB-(191)	1.244E-08
233'455'6'-HeptaCB-(192)	ND	233'455'6'-HeptaCB-(192)	0.00000	233'455'6'-HeptaCB-(192)	0.00000	233'455'6'-HeptaCB-(192)	0
22'33'44'55'-OctaCB-(194)	6.11	22'33'44'55'-OctaCB-(194)	0.00000	22'33'44'55'-OctaCB-(194)	0.00000	22'33'44'55'-OctaCB-(194)	1.309E-07
22'33'44'56'-OctaCB-(195)	2.59	22'33'44'56'-OctaCB-(195)	0.00000	22'33'44'56'-OctaCB-(195)	0.00000	22'33'44'56'-OctaCB-(195)	5.548E-08
22'33'44'56'-OctaCB-(196)	4.28	22'33'44'56'-OctaCB-(196)	0.00000	22'33'44'56'-OctaCB-(196)	0.00000	22'33'44'56'-OctaCB-(196)	9.167E-08

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
22'33'44'66'-OctaCB-(197)	ND	22'33'44'66'-OctaCB-(197)	0.00000	22'33'44'66'-OctaCB-(197)	0.00000	22'33'44'66'-OctaCB-(197)	0
OctaCB-(198)+(199)	8.41	OctaCB-(198)+(199)	0.00000	OctaCB-(198)+(199)	0.00000	OctaCB-(198)+(199)	1.801E-07
22'33'4566'-OctaCB-(200)	1.15	22'33'4566'-OctaCB-(200)	0.00000	22'33'4566'-OctaCB-(200)	0.00000	22'33'4566'-OctaCB-(200)	2.463E-08
22'33'45'66'-OctaCB-(201)	1.26	22'33'45'66'-OctaCB-(201)	0.00000	22'33'45'66'-OctaCB-(201)	0.00000	22'33'45'66'-OctaCB-(201)	2.699E-08
22'33'55'66'-OctaCB-(202)	1.77	22'33'55'66'-OctaCB-(202)	0.00000	22'33'55'66'-OctaCB-(202)	0.00000	22'33'55'66'-OctaCB-(202)	3.791E-08
22'344'55'6-OctaCB-(203)	4.46	22'344'55'6-OctaCB-(203)	0.00000	22'344'55'6-OctaCB-(203)	0.00000	22'344'55'6-OctaCB-(203)	9.553E-08
22'344'566'-OctaCB-(204)	ND	22'344'566'-OctaCB-(204)	0.00000	22'344'566'-OctaCB-(204)	0.00000	22'344'566'-OctaCB-(204)	0
233'44'55'6-OctaCB-(205)	0.285	233'44'55'6-OctaCB-(205)	0.00000	233'44'55'6-OctaCB-(205)	0.00000	233'44'55'6-OctaCB-(205)	6.105E-09
22'33'44'55'6-NonaCB-(206)	2.69	22'33'44'55'6-NonaCB-(206)	0.00000	22'33'44'55'6-NonaCB-(206)	0.00000	22'33'44'55'6-NonaCB-(206)	5.762E-08
22'33'44'566'-NonaCB-(207)	0.536	22'33'44'566'-NonaCB-(207)	0.00000	22'33'44'566'-NonaCB-(207)	0.00000	22'33'44'566'-NonaCB-(207)	1.148E-08
22'33'455'66'-NonaCB-(208)	1.03	22'33'455'66'-NonaCB-(208)	0.00000	22'33'455'66'-NonaCB-(208)	0.00000	22'33'455'66'-NonaCB-(208)	2.206E-08
DecaCB-(209)	1.41	DecaCB-(209)	0.00000	DecaCB-(209)	0.00000	DecaCB-(209)	3.02E-08
Monochlorobiphenyl	554	Monochlorobiphenyl	0.00018	Monochlorobiphenyl	0.00000	Monochlorobiphenyl	1.187E-05
Dichlorobiphenyl	1070	Dichlorobiphenyl	0.00034	Dichlorobiphenyl	0.00001	Dichlorobiphenyl	2.292E-05
Trichlorobiphenyl	2120	Trichlorobiphenyl	0.00067	Trichlorobiphenyl	0.00002	Trichlorobiphenyl	4.541E-05
Tetrachlorobiphenyl	2160	Tetrachlorobiphenyl	0.00068	Tetrachlorobiphenyl	0.00002	Tetrachlorobiphenyl	4.627E-05
Pentachlorobiphenyl	917	Pentachlorobiphenyl	0.00029	Pentachlorobiphenyl	0.00001	Pentachlorobiphenyl	1.964E-05
Hexachlorobiphenyl	390	Hexachlorobiphenyl	0.00012	Hexachlorobiphenyl	0.00000	Hexachlorobiphenyl	8.354E-06
Heptachlorobiphenyl	144	Heptachlorobiphenyl	0.00005	Heptachlorobiphenyl	0.00000	Heptachlorobiphenyl	3.084E-06
Octachlorobiphenyl	30.3	Octachlorobiphenyl	0.00001	Octachlorobiphenyl	0.00000	Octachlorobiphenyl	6.49E-07
Nonachlorobiphenyl	4.25	Nonachlorobiphenyl	0.00000	Nonachlorobiphenyl	0.00000	Nonachlorobiphenyl	9.103E-08
Decachlorobiphenyl	1.41	Decachlorobiphenyl	0.00000	Decachlorobiphenyl	0.00000	Decachlorobiphenyl	3.02E-08
Total Nanograms	7384.323	Total mg/m3	0.00234	Total mg/DSCF	0.00007	Total lbs/hr	0.0001583

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	MM5	FILE:	
UNIT:	Direct Fired			START TIME:	16:30 TIME:
DATE:	18-Dec-06		PCBR2	END TIME:	20:55 240
LENGTH:	74.00	WIDTH:	26.00		
As (SQFT)	13.36				
			K =	0.80	
		1 = ALL THE WAY IN	DEP P	SR RT	DEL H DGM IN DGM OUT ST TEMP
Y =	0.98143	A1	1.2	1.10	0.96 69 69 373
		2	1	1.00	0.80 67 67 374
PITOT CO	0.84	3	0.9	0.95	0.72 67 67 375
		4	0.79	0.89	0.63 67 67 374
IMP-1 IN	200	5	0.68	0.82	0.54 68 68 373
IMP-2 IN	0	6	0.55	0.74	0.44 69 69 371
IMP-3 IN	0	B1	1.2	1.10	0.96 65 65 374
IMP-4 IN	268.9	2	1	1.00	0.80 64 64 374
		3	0.9	0.95	0.72 63 63 374
		4	0.75	0.87	0.60 60 60 375
		5	0.6	0.77	0.48 58 58 373
	47.98 %moisture	6	0.5	0.71	0.40 58 58 352
IMP-1FIN	2291	2091 C1	1	1.00	0.80 56 56 376
IMP-2FIN	0	0 2	0.9	0.95	0.72 56 56 375
IMP-3FIN	0	0 3	0.95	0.97	0.75 55 55 374
IMP-4FIN	302.5	33.6 4	0.75	0.87	0.60 55 55 374
		2124.6 5	0.72	0.85	0.57 58 58 374
		6	0.8	0.89	0.64 62 62 373
		D1	0.95	0.97	0.78 64 64 372
		2	0.95	0.97	0.75 62 62 370
		3	0.9	0.95	0.72 62 62 372
		4	0.75	0.87	0.60 63 63 374
		5	0.6	0.77	0.48 64 64 373
		6	0.45	0.67	0.36 65 65 374
Pstd	29.92				
Tstd	68				
% CO2	6.20	AVERAGE	0.825	0.901	0.659 62.375 62.375 372.625
% O2	9.78				
% CO	0.00				
% N2	84.02				
P BAR =	29.85		TS (R) =	832.6	DELTA H (ABS) = 29.90
P STK =	-0.05				PS (ABS) = 29.85
FINAL METER =	554.878		TM (R) =	522.4	V1 (TOT) = 2124.60
LEAK CHK	0				
INT METER =	445.484				
VM (ACF) =	109.394				
		(VM)(Y)(DELTA H ABS)			
VM STD =	(Tstd/Pstd)	-----			108.44 DSCF
		(TM)			
VW STD =	0.4707 (V1 TOT)				100.00 CF
		VW (STD)			
BWO =	-----				0.480
	VW STD + VM STD				47.98 % MOIST
1- BWO =	1 - BWO				0.520
MD(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)				29.3832 LBS/LB MOLE
Ms (wet) =	MD (1-BWO) + 18 (BWO) -----				23.92 LBS/LB MOLE
G =	SQRT (TS / PS / MS)				1.08
VS =	85.49(CP)(G)(SQRT DELTA P)avg				69.9003 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)				1106015.148 DSCFH 18434 DSCFM 56070 ACFM 35433 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	MM5	FILE:	0		
UNIT:	Direct Fired		PCBR2	START TIME:		16:30	TIME:
DATE:	39069			END TIME:		20:55	240
Ds =	74.00						
As (SQFT)	4298.66						
Dn =	0.245						
An =	0.00033	A1	1.2	1.10	0.96	69	69 373
Y =	0.98143	2	1	1.00	0.80	67	67 374
PITOT CO	0.84	3	0.9	0.95	0.72	67	67 375
		4	0.79	0.89	0.63	67	67 374
IMP-1 IN	200	5	0.68	0.82	0.54	68	68 373
IMP-2 IN	0	0 6	0.55	0.74	0.44	69	69 371
IMP-3 IN	0	0 B1	1.2	1.10	0.96	65	65 374
IMP-4 IN	268.9	2	1	1.00	0.80	64	64 374
		3	0.9	0.95	0.72	63	63 374
IMP-1FIN	2291	4	0.75	0.87	0.60	60	60 375
IMP-2FIN	0	5	0.6	0.77	0.48	58	58 373
IMP-3FIN	0	6	0.5	0.71	0.40	58	58 352
IMP-4FIN	302.5	C1	1	1.00	0.80	56	56 376
		2	0.9	0.95	0.72	56	56 375
		3	0.95	0.97	0.75	55	55 374
		4	0.75	0.87	0.60	55	55 374
		5	0.72	0.85	0.57	58	58 374
		6	0.8	0.89	0.64	62	62 373
		D1	0.95	0.97	0.78	64	64 372
		2	0.95	0.97	0.75	62	62 370
		3	0.9	0.95	0.72	62	62 372
		4	0.75	0.87	0.60	63	63 374
		5	0.6	0.77	0.48	64	64 373
		6	0.45	0.67	0.36	65	65 374
Pstd	29.92						
Tstd	68						
% CO2	6.2						
% O2	9.78	AVERAGE	0.825	0.901	0.659	62.375	62.375 372.625
% CO	0						
% N2	84.02						
P BAR =	29.85						
P STK =	-0.05						
FINAL METER =	554.878	TS (R) =	832.6	DELTA H (ABS) =			29.90
LEAK CHK	0	TM (F) =	62.4	PS (ABS) =			29.85
INT METER =	445.484	TM (R) =	522.4	V1 (TOT) =			2124.6
VM (ACF) =	109.394						
VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)					
		(TM)				108.44	DSCF
VW STD =	0.4707 (V1 TOT)					100.00	CF
		VW (STD)					
BWO =						0.480	
	VW STD + VM STD					47.98	
1- BWO =	1 - BWO					0.520	
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)					29.3832	LBS/LB MOLE
Ms (wet) =	MD (1-BWO) + 18 (BWO)					23.92	LBS/LB MOLE
G =	SQRT (TS / PS / MS)					1.08	
VS =	85.49(CP)(G)(SQRT DELTA P)					69.90	FPS
H =	.002669 (V1 TOT)					5.67	
J =	(DELTA H ABS) (VM) (Y)/(TM)					6.14	
K =	(H) + (J)					11.82	
% ISO =	(TS) (K) (1.667)					100.1	%
	(TIME) (VS) (PS) (AN)						

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
2-MonoCB-(1)	66.5	2-MonoCB-(1)	0.00002	2-MonoCB-(1)	0.00000	2-MonoCB-(1)	1.495E-06
3-MonoCB-(2)	41.6	3-MonoCB-(2)	0.00001	3-MonoCB-(2)	0.00000	3-MonoCB-(2)	9.354E-07
4-MonoCB-(3)	73.6	4-MonoCB-(3)	0.00002	4-MonoCB-(3)	0.00000	4-MonoCB-(3)	1.655E-06
22'-DiCB-(4)	70.6	22'-DiCB-(4)	0.00002	22'-DiCB-(4)	0.00000	22'-DiCB-(4)	1.587E-06
2,3-DiCB-(5)	4.78	2,3-DiCB-(5)	0.00000	2,3-DiCB-(5)	0.00000	2,3-DiCB-(5)	1.075E-07
2,3'-DiCB-(6)	39.2	2,3'-DiCB-(6)	0.00001	2,3'-DiCB-(6)	0.00000	2,3'-DiCB-(6)	8.814E-07
2,4-DiCB-(7)	29.5	2,4-DiCB-(7)	0.00001	2,4-DiCB-(7)	0.00000	2,4-DiCB-(7)	6.633E-07
2,4'-DiCB-(8)	101	2,4'-DiCB-(8)	0.00003	2,4'-DiCB-(8)	0.00000	2,4'-DiCB-(8)	2.271E-06
2,5-DiCB-(9)	32	2,5-DiCB-(9)	0.00001	2,5-DiCB-(9)	0.00000	2,5-DiCB-(9)	7.195E-07
2,6-DiCB-(10)	10.9	2,6-DiCB-(10)	0.00000	2,6-DiCB-(10)	0.00000	2,6-DiCB-(10)	2.451E-07
3,3'-DiCB-(11)	21.4	3,3'-DiCB-(11)	0.00001	3,3'-DiCB-(11)	0.00000	3,3'-DiCB-(11)	4.812E-07
DiCB-(12)+(13)	41.3	DiCB-(12)+(13)	0.00001	DiCB-(12)+(13)	0.00000	DiCB-(12)+(13)	9.287E-07
3,5-DiCB-(14)	ND	3,5-DiCB-(14)	0.00000	3,5-DiCB-(14)	0.00000	3,5-DiCB-(14)	0
4,4'-DiCB-(15)	55.2	4,4'-DiCB-(15)	0.00002	4,4'-DiCB-(15)	0.00000	4,4'-DiCB-(15)	1.241E-06
22'3'-TriCB-(16)	48.9	22'3'-TriCB-(16)	0.00002	22'3'-TriCB-(16)	0.00000	22'3'-TriCB-(16)	1.1E-06
22'4'-TriCB-(17)	53.4	22'4'-TriCB-(17)	0.00002	22'4'-TriCB-(17)	0.00000	22'4'-TriCB-(17)	1.201E-06
TriCB-(18)+(30)	102	TriCB-(18)+(30)	0.00003	TriCB-(18)+(30)	0.00000	TriCB-(18)+(30)	2.294E-06
22'6'-TriCB-(19)	22.9	22'6'-TriCB-(19)	0.00001	22'6'-TriCB-(19)	0.00000	22'6'-TriCB-(19)	5.149E-07
TriCB-(20) + (28)	151	TriCB-(20) + (28)	0.00005	TriCB-(20) + (28)	0.00000	TriCB-(20) + (28)	3.395E-06
TriCB-(21)+(33)	35.5	TriCB-(21)+(33)	0.00001	TriCB-(21)+(33)	0.00000	TriCB-(21)+(33)	7.982E-07
234'-TriCB-(22)	41.1	234'-TriCB-(22)	0.00001	234'-TriCB-(22)	0.00000	234'-TriCB-(22)	9.242E-07
235-TriCB-(23)	0.32	235-TriCB-(23)	0.00000	235-TriCB-(23)	0.00000	235-TriCB-(23)	7.195E-09
236-TriCB-(24)	3.46	236-TriCB-(24)	0.00000	236-TriCB-(24)	0.00000	236-TriCB-(24)	7.78E-08
23'4-TriCB-(25)	13.6	23'4-TriCB-(25)	0.00000	23'4-TriCB-(25)	0.00000	23'4-TriCB-(25)	3.058E-07
TriCB-(26)+(29)	28.2	TriCB-(26)+(29)	0.00001	TriCB-(26)+(29)	0.00000	TriCB-(26)+(29)	6.341E-07
23'6-TriCB-(27)	9.17	23'6-TriCB-(27)	0.00000	23'6-TriCB-(27)	0.00000	23'6-TriCB-(27)	2.062E-07
24'5-TriCB-(31)	116	24'5-TriCB-(31)	0.00004	24'5-TriCB-(31)	0.00000	24'5-TriCB-(31)	2.608E-06
24'6-TriCB-(32)	47.3	24'6-TriCB-(32)	0.00002	24'6-TriCB-(32)	0.00000	24'6-TriCB-(32)	1.064E-06
23'5'-TriCB-(34)	0.68	23'5'-TriCB-(34)	0.00000	23'5'-TriCB-(34)	0.00000	23'5'-TriCB-(34)	1.529E-08
33'4-TriCB-(35)	6.1	33'4-TriCB-(35)	0.00000	33'4-TriCB-(35)	0.00000	33'4-TriCB-(35)	1.372E-07
33'5-TriCB-(36)	ND	33'5-TriCB-(36)	0.00000	33'5-TriCB-(36)	0.00000	33'5-TriCB-(36)	0
344'-TriCB-(37)	29.3	344'-TriCB-(37)	0.00001	344'-TriCB-(37)	0.00000	344'-TriCB-(37)	6.588E-07
345-TriCB-(38)	ND	345-TriCB-(38)	0.00000	345-TriCB-(38)	0.00000	345-TriCB-(38)	0
34'5-TriCB-(39)	0.9	34'5-TriCB-(39)	0.00000	34'5-TriCB-(39)	0.00000	34'5-TriCB-(39)	2.024E-08
TetraCB-(40)+(41)+(71)	45.9	TetraCB-(40)+(41)+(71)	0.00001	TetraCB-(40)+(41)+(71)	0.00000	TetraCB-(40)+(41)+(71)	1.032E-06
22'34'-TetraCB-(42)	27.2	22'34'-TetraCB-(42)	0.00001	22'34'-TetraCB-(42)	0.00000	22'34'-TetraCB-(42)	6.116E-07
22'35-TetraCB-(43)	4.19	22'35-TetraCB-(43)	0.00000	22'35-TetraCB-(43)	0.00000	22'35-TetraCB-(43)	9.422E-08
TetraCB-(44)+(47)+(65)	93.9	TetraCB-(44)+(47)+(65)	0.00003	TetraCB-(44)+(47)+(65)	0.00000	TetraCB-(44)+(47)+(65)	2.111E-06
TetraCB-(45)+(51)	24.3	TetraCB-(45)+(51)	0.00001	TetraCB-(45)+(51)	0.00000	TetraCB-(45)+(51)	5.464E-07
22'36'-TetraCB-(46)	8.14	22'36'-TetraCB-(46)	0.00000	22'36'-TetraCB-(46)	0.00000	22'36'-TetraCB-(46)	1.83E-07
22'45-TetraCB-(48)	20.3	22'45-TetraCB-(48)	0.00001	22'45-TetraCB-(48)	0.00000	22'45-TetraCB-(48)	4.565E-07
TetraCB-(49)+TetraCB-(69)	57.2	TetraCB-(49)+TetraCB-(69)	0.00002	TetraCB-(49)+TetraCB-(69)	0.00000	TetraCB-(49)+TetraCB-(69)	1.286E-06
TetraCB-(50)+(53)	19.5	TetraCB-(50)+(53)	0.00001	TetraCB-(50)+(53)	0.00000	TetraCB-(50)+(53)	4.385E-07
22'55'-TetraCB-(52)	103	22'55'-TetraCB-(52)	0.00003	22'55'-TetraCB-(52)	0.00000	22'55'-TetraCB-(52)	2.316E-06
22'66'-TetraCB-(54)	ND	22'66'-TetraCB-(54)	0.00000	22'66'-TetraCB-(54)	0.00000	22'66'-TetraCB-(54)	0
233'4-TetraCB-(55)	0.83	233'4-TetraCB-(55)	0.00000	233'4-TetraCB-(55)	0.00000	233'4-TetraCB-(55)	1.866E-08
233'4'-Tetra CB(56)	24.3	233'4'-Tetra CB(56)	0.00001	233'4'-Tetra CB(56)	0.00000	233'4'-Tetra CB(56)	5.464E-07
233'5-TetraCB-(57)	0.39	233'5-TetraCB-(57)	0.00000	233'5-TetraCB-(57)	0.00000	233'5-TetraCB-(57)	8.769E-09
233'5'-TetraCB-(58)	ND	233'5'-TetraCB-(58)	0.00000	233'5'-TetraCB-(58)	0.00000	233'5'-TetraCB-(58)	0
TetraCB-(59)+(62)+(75)	8.98	TetraCB-(59)+(62)+(75)	0.00000	TetraCB-(59)+(62)+(75)	0.00000	TetraCB-(59)+(62)+(75)	2.019E-07
2344'-TetraCB -(60)	9.99	2344'-TetraCB -(60)	0.00000	2344'-TetraCB -(60)	0.00000	2344'-TetraCB -(60)	2.246E-07
TetraCB-(61)+(70)+(74)+(76)	92.3	TetraCB-(61)+(70)+(74)+(76)	0.00003	TetraCB-(61)+(70)+(74)+(76)	0.00000	TetraCB-(61)+(70)+(74)+(76)	2.075E-06
234'5-TetraCB-(63)	2.61	234'5-TetraCB-(63)	0.00000	234'5-TetraCB-(63)	0.00000	234'5-TetraCB-(63)	5.869E-08
234'6-TetraCB-(64)	50.2	234'6-TetraCB-(64)	0.00002	234'6-TetraCB-(64)	0.00000	234'6-TetraCB-(64)	1.129E-06
23'44'-TetraCB-(66)	49.2	23'44'-TetraCB-(66)	0.00002	23'44'-TetraCB-(66)	0.00000	23'44'-TetraCB-(66)	1.106E-06
23'45-TetraCB-(67)	2.27	23'45-TetraCB-(67)	0.00000	23'45-TetraCB-(67)	0.00000	23'45-TetraCB-(67)	5.104E-08
23'45'-TetraCB-(68)	1.24	23'45'-TetraCB-(68)	0.00000	23'45'-TetraCB-(68)	0.00000	23'45'-TetraCB-(68)	2.788E-08
23'55'-TetraCB-(72)	0.45	23'55'-TetraCB-(72)	0.00000	23'55'-TetraCB-(72)	0.00000	23'55'-TetraCB-(72)	1.012E-08
23'5'6-TetraCB-(73)	ND	23'5'6-TetraCB-(73)	0.00000	23'5'6-TetraCB-(73)	0.00000	23'5'6-TetraCB-(73)	0
33'44'-TetraCB-(77)	4.4	33'44'-TetraCB-(77)	0.00000	33'44'-TetraCB-(77)	0.00000	33'44'-TetraCB-(77)	9.894E-08
33'45-TetraCB-(78)	ND	33'45-TetraCB-(78)	0.00000	33'45-TetraCB-(78)	0.00000	33'45-TetraCB-(78)	0
33'45'-TetraCB(79)	ND	33'45'-TetraCB(79)	0.00000	33'45'-TetraCB(79)	0.00000	33'45'-TetraCB(79)	0
33'55'-TetraCB-(80)	ND	33'55'-TetraCB-(80)	0.00000	33'55'-TetraCB-(80)	0.00000	33'55'-TetraCB-(80)	0
344'5-TetraCB-(81)	ND	344'5-TetraCB-(81)	0.00000	344'5-TetraCB-(81)	0.00000	344'5-TetraCB-(81)	0
22'33'4-PentaCB-(82)	6.05	22'33'4-PentaCB-(82)	0.00000	22'33'4-PentaCB-(82)	0.00000	22'33'4-PentaCB-(82)	1.36E-07
PentaCB-(83)+(99)	24	PentaCB-(83)+(99)	0.00001	PentaCB-(83)+(99)	0.00000	PentaCB-(83)+(99)	5.397E-07
22'33'6-PentaCB-(84)	16.4	22'33'6-PentaCB-(84)	0.00001	22'33'6-PentaCB-(84)	0.00000	22'33'6-PentaCB-(84)	3.688E-07
PentaCB-(85)+(116)+(117)	7.54	PentaCB-(85)+(116)+(117)	0.00000	PentaCB-(85)+(116)+(117)	0.00000	PentaCB-(85)+(116)+(117)	1.695E-07
PentaCB-(86)(87)(97)(109)(119)(125)	28.4	PentaCB-(86)(87)(97)(109)(119)(125)	0.00001	PentaCB-(86)(87)(97)(109)(119)(125)	0.00000	PentaCB-(86)(87)(97)(109)(119)(125)	6.386E-07
PentaCB-(88)+(91)	9.78	PentaCB-(88)+(91)	0.00000	PentaCB-(88)+(91)	0.00000	PentaCB-(88)+(91)	2.199E-07
22'346'-PentaCB-(89)	1.59	22'346'-PentaCB-(89)	0.00000	22'346'-PentaCB-(89)	0.00000	22'346'-PentaCB-(89)	3.575E-08
PentaCB-(90)+(101)+(113)	39.5	PentaCB-(90)+(101)+(113)	0.00001	PentaCB-(90)+(101)+(113)	0.00000	PentaCB-(90)+(101)+(113)	8.882E-07
22'355'-PentaCB-(92)	7.43	22'355'-PentaCB-(92)	0.00000	22'355'-PentaCB-(92)	0.00000	22'355'-PentaCB-(92)	1.671E-07
PentaCB-(93)+(98)+(100)+(102)	3.87	PentaCB-(93)+(98)+(100)+(102)	0.00000	PentaCB-(93)+(98)+(100)+(102)	0.00000	PentaCB-(93)+(98)+(100)+(102)	8.702E-08
22'356'-PentaCB-(94)	0.54	22'356'-PentaCB-(94)	0.00000	22'356'-PentaCB-(94)	0.00000	22'356'-PentaCB-(94)	1.214E-08
22'35'6-PentaCB-(95)	43.9	22'35'6-PentaCB-(95)	0.00001	22'35'6-PentaCB-(95)	0.00000	22'35'6-PentaCB-(95)	9.871E-07
22'366'-PentaCB-(96)	1.33	22'366'-PentaCB-(96)	0.00000	22'366'-PentaCB-(96)	0.00000	22'366'-PentaCB-(96)	2.991E-08
22'45'6-PentaCB-(103)	ND	22'45'6-PentaCB-(103)	0.00000	22'45'6-PentaCB-(103)	0.00000	22'45'6-PentaCB-(103)	0
22'466'-PentaCB-(104)	ND	22'466'-PentaCB-(104)	0.00000	22'466'-PentaCB-(104)	0.00000	22'466'-PentaCB-(104)	0
233'44'-PentaCB-(105)	10.2	233'44'-PentaCB-(105)	0.00000	233'44'-PentaCB-(105)	0.00000	233'44'-PentaCB-(105)	2.294E-07
233'45-PentaCB-(106)	ND	233'45-PentaCB-(106)	0.00000	233'45-PentaCB-(106)	0.00000	233'45-PentaCB-(106)	0
233'4'5-PentaCB-(107)	1.78	233'4'5-PentaCB-(107)	0.00000	233'4'5-PentaCB-(107)	0.00000	233'4'5-PentaCB-(107)	4.002E-08
PentaCB-(108)+(124)	1.01	PentaCB-(108)+(124)	0.00000	PentaCB-(108)+(124)	0.00000	PentaCB-(108)+(124)	2.271E-08
PentaCB-(110)+(115)	43.8	PentaCB-(110)+(115)	0.00001	PentaCB-(110)+(115)	0.00000	PentaCB-(110)+(115)	9.849E-07
233'55'-PentaCB-(111)	ND	233'55'-PentaCB-(111)	0.00000	233'55'-PentaCB-(111)	0.00000	233'55'-PentaCB-(111)	0

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
233'56'-PentaCB-(112)	ND	233'56'-PentaCB-(112)	0.00000	233'56'-PentaCB-(112)	0.00000	233'56'-PentaCB-(112)	0
2344'5'-PentaCB-(114)	0.81	2344'5'-PentaCB-(114)	0.00000	2344'5'-PentaCB-(114)	0.00000	2344'5'-PentaCB-(114)	1.821E-08
23'44'5'-PentaCB-(118)	26	23'44'5'-PentaCB-(118)	0.00001	23'44'5'-PentaCB-(118)	0.00000	23'44'5'-PentaCB-(118)	5.846E-07
23'45'5'-PentaCB-(120)	ND	23'45'5'-PentaCB-(120)	0.00000	23'45'5'-PentaCB-(120)	0.00000	23'45'5'-PentaCB-(120)	0
23'45'6'-PentaCB-(121)	ND	23'45'6'-PentaCB-(121)	0.00000	23'45'6'-PentaCB-(121)	0.00000	23'45'6'-PentaCB-(121)	0
233'4'5'-PentaCB-(122)	0.455	233'4'5'-PentaCB-(122)	0.00000	233'4'5'-PentaCB-(122)	0.00000	233'4'5'-PentaCB-(122)	1.023E-08
23'44'5'-PentaCB-(123)	0.422	23'44'5'-PentaCB-(123)	0.00000	23'44'5'-PentaCB-(123)	0.00000	23'44'5'-PentaCB-(123)	9.489E-09
33'44'5'-PentaCB-(126)	0.206	33'44'5'-PentaCB-(126)	0.00000	33'44'5'-PentaCB-(126)	0.00000	33'44'5'-PentaCB-(126)	4.632E-09
33'45'5'-PentaCB-(127)	ND	33'45'5'-PentaCB-(127)	0.00000	33'45'5'-PentaCB-(127)	0.00000	33'45'5'-PentaCB-(127)	0
HexaCB-(128)+(166)	3.3	HexaCB-(128)+(166)	0.00000	HexaCB-(128)+(166)	0.00000	HexaCB-(128)+(166)	7.42E-08
HexaCB-(129)+(138)+(163)	23.8	HexaCB-(129)+(138)+(163)	0.00001	HexaCB-(129)+(138)+(163)	0.00000	HexaCB-(129)+(138)+(163)	5.352E-07
22'33'45'-HexaCB-(130)	1.51	22'33'45'-HexaCB-(130)	0.00000	22'33'45'-HexaCB-(130)	0.00000	22'33'45'-HexaCB-(130)	3.395E-08
22'33'46'-HexaCB-(131)	0.43	22'33'46'-HexaCB-(131)	0.00000	22'33'46'-HexaCB-(131)	0.00000	22'33'46'-HexaCB-(131)	9.669E-09
22'33'46'-HexaCB-(132)	10	22'33'46'-HexaCB-(132)	0.00000	22'33'46'-HexaCB-(132)	0.00000	22'33'46'-HexaCB-(132)	2.249E-07
22'33'55'-HexaCB-(133)	ND	22'33'55'-HexaCB-(133)	0.00000	22'33'55'-HexaCB-(133)	0.00000	22'33'55'-HexaCB-(133)	0
HexaCB-(134)+(143)	1.48	HexaCB-(134)+(143)	0.00000	HexaCB-(134)+(143)	0.00000	HexaCB-(134)+(143)	3.328E-08
HexaCB-(135)+(151)	8.86	HexaCB-(135)+(151)	0.00000	HexaCB-(135)+(151)	0.00000	HexaCB-(135)+(151)	1.992E-07
22'33'66'-HexaCB-(136)	4.9	22'33'66'-HexaCB-(136)	0.00000	22'33'66'-HexaCB-(136)	0.00000	22'33'66'-HexaCB-(136)	1.102E-07
22'344'5'-HexaCB-(137)	1.12	22'344'5'-HexaCB-(137)	0.00000	22'344'5'-HexaCB-(137)	0.00000	22'344'5'-HexaCB-(137)	2.518E-08
HexaCB-(139)+(140)	0.533	HexaCB-(139)+(140)	0.00000	HexaCB-(139)+(140)	0.00000	HexaCB-(139)+(140)	1.198E-08
22'345'5'-HexaCB-(141)	3.99	22'345'5'-HexaCB-(141)	0.00000	22'345'5'-HexaCB-(141)	0.00000	22'345'5'-HexaCB-(141)	8.972E-08
22'345'6'-HexaCB-(142)	ND	22'345'6'-HexaCB-(142)	0.00000	22'345'6'-HexaCB-(142)	0.00000	22'345'6'-HexaCB-(142)	0
22'345'6'-HexaCB-(144)	1.37	22'345'6'-HexaCB-(144)	0.00000	22'345'6'-HexaCB-(144)	0.00000	22'345'6'-HexaCB-(144)	3.081E-08
22'346'6'-HexaCB-(145)	ND	22'346'6'-HexaCB-(145)	0.00000	22'346'6'-HexaCB-(145)	0.00000	22'346'6'-HexaCB-(145)	0
22'34'55'-HexaCB-(146)	3.05	22'34'55'-HexaCB-(146)	0.00000	22'34'55'-HexaCB-(146)	0.00000	22'34'55'-HexaCB-(146)	6.858E-08
HexaCB-(147)+(149)	21.1	HexaCB-(147)+(149)	0.00001	HexaCB-(147)+(149)	0.00000	HexaCB-(147)+(149)	4.745E-07
22'34'56'-HexaCB-(148)	ND	22'34'56'-HexaCB-(148)	0.00000	22'34'56'-HexaCB-(148)	0.00000	22'34'56'-HexaCB-(148)	0
22'34'66'-HexaCB-(150)	0.068	22'34'66'-HexaCB-(150)	0.00000	22'34'66'-HexaCB-(150)	0.00000	22'34'66'-HexaCB-(150)	1.529E-09
22'356'6'-HexaCB-(152)	0.086	22'356'6'-HexaCB-(152)	0.00000	22'356'6'-HexaCB-(152)	0.00000	22'356'6'-HexaCB-(152)	1.934E-09
HexaCB-(153)+(168)	17.4	HexaCB-(153)+(168)	0.00001	HexaCB-(153)+(168)	0.00000	HexaCB-(153)+(168)	3.913E-07
22'44'56'-HexaCB-(154)	0.302	22'44'56'-HexaCB-(154)	0.00000	22'44'56'-HexaCB-(154)	0.00000	22'44'56'-HexaCB-(154)	6.791E-09
22'44'66'-HexaCB-(155)	ND	22'44'66'-HexaCB-(155)	0.00000	22'44'66'-HexaCB-(155)	0.00000	22'44'66'-HexaCB-(155)	0
HexaCB-(156)+(157)	2.62	HexaCB-(156)+(157)	0.00000	HexaCB-(156)+(157)	0.00000	HexaCB-(156)+(157)	5.891E-08
233'44'6'-HexaCB-(158)	2.12	233'44'6'-HexaCB-(158)	0.00000	233'44'6'-HexaCB-(158)	0.00000	233'44'6'-HexaCB-(158)	4.767E-08
233'45'5'-HexaCB-(159)	ND	233'45'5'-HexaCB-(159)	0.00000	233'45'5'-HexaCB-(159)	0.00000	233'45'5'-HexaCB-(159)	0
233'45'6'-HexaCB-(160)	ND	233'45'6'-HexaCB-(160)	0.00000	233'45'6'-HexaCB-(160)	0.00000	233'45'6'-HexaCB-(160)	0
233'45'6'-HexaCB-(161)	ND	233'45'6'-HexaCB-(161)	0.00000	233'45'6'-HexaCB-(161)	0.00000	233'45'6'-HexaCB-(161)	0
233'4'55'-HexaCB-(162)	ND	233'4'55'-HexaCB-(162)	0.00000	233'4'55'-HexaCB-(162)	0.00000	233'4'55'-HexaCB-(162)	0
233'4'5'6'-HexaCB-(164)	1.49	233'4'5'6'-HexaCB-(164)	0.00000	233'4'5'6'-HexaCB-(164)	0.00000	233'4'5'6'-HexaCB-(164)	3.35E-08
233'55'6'-HexaCB-(165)	ND	233'55'6'-HexaCB-(165)	0.00000	233'55'6'-HexaCB-(165)	0.00000	233'55'6'-HexaCB-(165)	0
23'44'55'-HexaCB-(167)	0.841	23'44'55'-HexaCB-(167)	0.00000	23'44'55'-HexaCB-(167)	0.00000	23'44'55'-HexaCB-(167)	1.891E-08
33'44'55'-HexaCB-(169)	ND	33'44'55'-HexaCB-(169)	0.00000	33'44'55'-HexaCB-(169)	0.00000	33'44'55'-HexaCB-(169)	0
22'33'44'5'-HeptaCB-(170)	5.36	22'33'44'5'-HeptaCB-(170)	0.00000	22'33'44'5'-HeptaCB-(170)	0.00000	22'33'44'5'-HeptaCB-(170)	1.205E-07
HeptaCB-(171)+(173)	1.75	HeptaCB-(171)+(173)	0.00000	HeptaCB-(171)+(173)	0.00000	HeptaCB-(171)+(173)	3.935E-08
22'33'45'5'-HeptaCB-(172)	0.957	22'33'45'5'-HeptaCB-(172)	0.00000	22'33'45'5'-HeptaCB-(172)	0.00000	22'33'45'5'-HeptaCB-(172)	2.152E-08
22'33'45'6'-HeptaCB-(174)	5.74	22'33'45'6'-HeptaCB-(174)	0.00000	22'33'45'6'-HeptaCB-(174)	0.00000	22'33'45'6'-HeptaCB-(174)	1.291E-07
22'33'45'6'-HeptaCB-(175)	0.239	22'33'45'6'-HeptaCB-(175)	0.00000	22'33'45'6'-HeptaCB-(175)	0.00000	22'33'45'6'-HeptaCB-(175)	5.374E-09
22'33'46'6'-HeptaCB-(176)	0.901	22'33'46'6'-HeptaCB-(176)	0.00000	22'33'46'6'-HeptaCB-(176)	0.00000	22'33'46'6'-HeptaCB-(176)	2.026E-08
22'33'45'6'-HeptaCB-(177)	3.5	22'33'45'6'-HeptaCB-(177)	0.00000	22'33'45'6'-HeptaCB-(177)	0.00000	22'33'45'6'-HeptaCB-(177)	7.87E-08
22'33'55'6'-HeptaCB-(178)	1.08	22'33'55'6'-HeptaCB-(178)	0.00000	22'33'55'6'-HeptaCB-(178)	0.00000	22'33'55'6'-HeptaCB-(178)	2.428E-08
22'33'56'6'-HeptaCB-(179)	2.94	22'33'56'6'-HeptaCB-(179)	0.00000	22'33'56'6'-HeptaCB-(179)	0.00000	22'33'56'6'-HeptaCB-(179)	6.611E-08
HeptaCB-(180)+(193)	10.2	HeptaCB-(180)+(193)	0.00000	HeptaCB-(180)+(193)	0.00000	HeptaCB-(180)+(193)	2.294E-07
22'344'5'6'-HeptaCB-(181)	ND	22'344'5'6'-HeptaCB-(181)	0.00000	22'344'5'6'-HeptaCB-(181)	0.00000	22'344'5'6'-HeptaCB-(181)	0
22'344'5'6'-HeptaCB-(182)	ND	22'344'5'6'-HeptaCB-(182)	0.00000	22'344'5'6'-HeptaCB-(182)	0.00000	22'344'5'6'-HeptaCB-(182)	0
22'344'5'6'-HeptaCB-(183)	3.72	22'344'5'6'-HeptaCB-(183)	0.00000	22'344'5'6'-HeptaCB-(183)	0.00000	22'344'5'6'-HeptaCB-(183)	8.365E-08
22'344'6'6'-HeptaCB-(184)	ND	22'344'6'6'-HeptaCB-(184)	0.00000	22'344'6'6'-HeptaCB-(184)	0.00000	22'344'6'6'-HeptaCB-(184)	0
22'345'5'6'-HeptaCB-(185)	ND	22'345'5'6'-HeptaCB-(185)	0.00000	22'345'5'6'-HeptaCB-(185)	0.00000	22'345'5'6'-HeptaCB-(185)	0
22'345'6'6'-HeptaCB-(186)	ND	22'345'6'6'-HeptaCB-(186)	0.00000	22'345'6'6'-HeptaCB-(186)	0.00000	22'345'6'6'-HeptaCB-(186)	0
22'34'55'6'-HeptaCB-(187)	6.15	22'34'55'6'-HeptaCB-(187)	0.00000	22'34'55'6'-HeptaCB-(187)	0.00000	22'34'55'6'-HeptaCB-(187)	1.383E-07
22'34'56'6'-HeptaCB-(188)	ND	22'34'56'6'-HeptaCB-(188)	0.00000	22'34'56'6'-HeptaCB-(188)	0.00000	22'34'56'6'-HeptaCB-(188)	0
233'44'55'-HeptaCB-(189)	0.209	233'44'55'-HeptaCB-(189)	0.00000	233'44'55'-HeptaCB-(189)	0.00000	233'44'55'-HeptaCB-(189)	4.7E-09
233'44'5'6'-HeptaCB-(190)	0.826	233'44'5'6'-HeptaCB-(190)	0.00000	233'44'5'6'-HeptaCB-(190)	0.00000	233'44'5'6'-HeptaCB-(190)	1.857E-08
233'44'5'6'-HeptaCB-(191)	0.216	233'44'5'6'-HeptaCB-(191)	0.00000	233'44'5'6'-HeptaCB-(191)	0.00000	233'44'5'6'-HeptaCB-(191)	4.857E-09
233'45'5'6'-HeptaCB-(192)	ND	233'45'5'6'-HeptaCB-(192)	0.00000	233'45'5'6'-HeptaCB-(192)	0.00000	233'45'5'6'-HeptaCB-(192)	0
22'33'44'55'-OctaCB-(194)	2.58	22'33'44'55'-OctaCB-(194)	0.00000	22'33'44'55'-OctaCB-(194)	0.00000	22'33'44'55'-OctaCB-(194)	5.801E-08
22'33'44'56'-OctaCB-(195)	0.954	22'33'44'56'-OctaCB-(195)	0.00000	22'33'44'56'-OctaCB-(195)	0.00000	22'33'44'56'-OctaCB-(195)	2.145E-08
22'33'44'56'-OctaCB-(196)	1.4	22'33'44'56'-OctaCB-(196)	0.00000	22'33'44'56'-OctaCB-(196)	0.00000	22'33'44'56'-OctaCB-(196)	3.148E-08
22'33'44'66'-OctaCB-(197)	0.127	22'33'44'66'-OctaCB-(197)	0.00000	22'33'44'66'-OctaCB-(197)	0.00000	22'33'44'66'-OctaCB-(197)	2.856E-09
OctaCB-(198)+(199)	2.83	OctaCB-(198)+(199)	0.00000	OctaCB-(198)+(199)	0.00000	OctaCB-(198)+(199)	6.363E-08
22'33'45'6'6'-OctaCB-(200)	0.347	22'33'45'6'6'-OctaCB-(200)	0.00000	22'33'45'6'6'-OctaCB-(200)	0.00000	22'33'45'6'6'-OctaCB-(200)	7.803E-09
22'33'45'6'6'-OctaCB-(201)	0.352	22'33'45'6'6'-OctaCB-(201)	0.00000	22'33'45'6'6'-OctaCB-(201)	0.00000	22'33'45'6'6'-OctaCB-(201)	9.129E-09
22'33'55'6'6'-OctaCB-(202)	0.585	22'33'55'6'6'-OctaCB-(202)	0.00000	22'33'55'6'6'-OctaCB-(202)	0.00000	22'33'55'6'6'-OctaCB-(202)	1.315E-08
22'344'55'6'-OctaCB-(203)	1.69	22'344'55'6'-OctaCB-(203)	0.00000	22'344'55'6'-OctaCB-(203)	0.00000	22'344'55'6'-OctaCB-(203)	3.8E-08
22'344'56'6'-OctaCB-(204)	ND	22'344'56'6'-OctaCB-(204)	0.00000	22'344'56'6'-OctaCB-(204)	0.00000	22'344'56'6'-OctaCB-(204)	0
233'44'55'6'-OctaCB-(205)	ND	233'44'55'6'-OctaCB-(205)	0.00000	233'44'55'6'-OctaCB-(205)	0.00000	233'44'55'6'-OctaCB-(205)	0
22'33'44'55'6'-NonaCB-(206)	1.12	22'33'44'55'6'-NonaCB-(206)	0.00000	22'33'44'55'6'-NonaCB-(206)	0.00000	22'33'44'55'6'-NonaCB-(206)	2.518E-08
22'33'44'56'6'-NonaCB-(207)	0.199	22'33'44'56'6'-NonaCB-(207)	0.00000	22'33'44'56'6'-NonaCB-(207)	0.00000	22'33'44'56'6'-NonaCB-(207)	4.475E-09
22'33'45'5'6'-NonaCB-(208)	0.349	22'33'45'5'6'-NonaCB-(208)	0.00000	22'33'45'5'6'-NonaCB-(208)	0.00000	22'33'45'5'6'-NonaCB-(208)	7.848E-09
DecaCB-(209)	0.609	DecaCB-(209)	0.00000	DecaCB-(209)	0.00000	DecaCB-(209)	1.369E-08
Monochlorobiphenyl	182	Monochlorobiphenyl	0.00006	Monochlorobiphenyl	0.00000	Monochlorobiphenyl	4.092E-06
Dichlorobiphenyl	406	Dichlorobiphenyl	0.00013	Dichlorobiphenyl	0.00000	Dichlorobiphenyl	9.129E-06
Trichlorobiphenyl	710	Trichlorobiphenyl	0.00023	Trichlorobiphenyl	0.00001	Trichlorobiphenyl	1.596E-05
Tetrachlorobiphenyl	650	Tetrachlorobiphenyl	0.00021	Tetrachlorobiphenyl	0.00001	Tetrachlorobiphenyl	1.462E-05
Pentachlorobiphenyl	275	Pentachlorobiphenyl	0.00009	Pentachlorobiphenyl	0.00000	Pentachlorobiphenyl	6.184E-06
Hexachlorobiphenyl	110	Hexachlorobiphenyl	0.00004	Hexachlorobiphenyl	0.00000	Hexachlorobiphenyl	2.473E-06

PCB Catches in Nanograms

Heptachlorobiphenyl
Octachlorobiphenyl
Nonachlorobiphenyl
Decachlorobiphenyl
Total Nanograms

PCB Concentration mg/m3

43.8	Heptachlorobiphenyl	0.00001
10.9	Octachlorobiphenyl	0.00000
1.67	Nonachlorobiphenyl	0.00000
0.609	Decachlorobiphenyl	0.00000
2389.904	Total mg/m3	0.0007785

PCB Concentration mg/dscf

Heptachlorobiphenyl	0.00000
Octachlorobiphenyl	0.00000
Nonachlorobiphenyl	0.00000
Decachlorobiphenyl	0.00000
Total mg/DSCF	2.205E-05

PCB Emissions lbs/hr

Heptachlorobiphenyl	9.849E-07
Octachlorobiphenyl	2.451E-07
Nonachlorobiphenyl	3.755E-08
Decachlorobiphenyl	1.369E-08
Total lbs/hr	5.375E-05

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	MM5	FILE:	
UNIT:	Direct Fired			START TIME:	22:05
DATE:	18-Dec-06		PCBR3	END TIME:	02:35
LENGTH:	74.00	WIDTH:	26.00		240
As (SQFT)	13.36				
		1 = ALL THE WAY IN	DEP P	K =	0.80
Y =	0.98143	A1	1	1.00	0.80
		2	1	1.00	0.80
PITOT CO	0.84	3	0.99	0.99	0.79
		4	1	1.00	0.80
IMP-1 IN	200	5	1	1.00	0.80
IMP-2 IN	0	6	0.8	0.89	0.64
IMP-3 IN	0	B1	1.2	1.10	0.96
IMP-4 IN	247.5	2	0.98	0.99	0.78
		3	0.78	0.88	0.62
		4	0.78	0.88	0.62
		5	0.92	0.96	0.73
	51.04 %moisture	6	0.85	0.92	0.68
IMP-1FIN	2700	2500 C1	1.2	1.10	0.96
IMP-2FIN	0	0 2	1	1.00	0.80
IMP-3FIN	0	0 3	0.87	0.93	0.69
IMP-4FIN	282.2	34.7 4	0.75	0.87	0.60
		2534.7 5	0.75	0.87	0.60
		6	0.5	0.71	0.40
		D1	1.2	1.10	0.96
		2	1.1	1.05	0.88
		3	0.92	0.96	0.73
		4	0.8	0.89	0.64
		5	0.95	0.97	0.76
		6	0.55	0.74	0.44
Pstd	29.92				
Tstd	68				
% CO2	12.00	AVERAGE	0.912	0.950	0.728
% O2	8.00				66.708
% CO	0.00				66.708
% N2	80.00				369.208
P BAR =	29.85		TS (°R) =	829.2	DELTA H (ABS) =
P STK =	-0.05				PS (ABS) =
FINAL METER =	325.326		TM (°R) =	526.7	V1 (TOT) =
LEAK CHK	0				2534.70
INT METER =	208.922				
VM (ACF) =	116.404				
VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)			
		(TM)			114.46 DSCF
VW STD =	0.4707 (V1 TOT)				119.31 CF
BWO =		VW (STD)			0.510
		VW STD + VM STD			51.04 % MOIST
1- BWO =		1 - BWO			0.490
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)				30.24 LBS/LB MOLE
Ms (wet) =		MD (1-BWO)			
		+ 18 (BWO)			
					23.99 LBS/LB MOLE
G =	SQRT (TS / PS / MS)				1.08
VS =	85.49(CP)(G)(SQRT DELTA P)avg				73.4233 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)				1097916.618 DSCFH
					18299 DSCFM
					58896 ACFM
					37373 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	MM5	FILE:	0		
UNIT:	Direct Fired		PCBR3	START TIME:		22:05	TIME:
DATE:	39069			END TIME:		02:35	240
Ds =	74.00						
As (SQFT)	4298.66						
Dn =	0.253						
An =	0.00035	A1	1	1.00	0.80	62	62 369
Y =	0.98143	2	1	1.00	0.80	63	63 369
PITOT CO	0.84	3	0.99	0.99	0.79	65	65 374
		4	1	1.00	0.80	67	67 366
IMP-1 IN	200	5	1	1.00	0.80	68	68 370
IMP-2 IN	0	0 6	0.8	0.89	0.64	67	67 370
IMP-3 IN	0	0 B1	1.2	1.10	0.96	66	66 373
IMP-4 IN	247.5	2	0.98	0.99	0.78	65	65 371
		3	0.78	0.88	0.62	65	65 371
IMP-1FIN	2700	4	0.78	0.88	0.62	65	65 372
IMP-2FIN	0	5	0.92	0.96	0.73	66	66 372
IMP-3FIN	0	6	0.85	0.92	0.68	66	66 368
IMP-4FIN	282.2	C1	1.2	1.10	0.96	66	66 371
		2	1	1.00	0.80	65	65 368
		3	0.87	0.93	0.69	65	65 368
		4	0.75	0.87	0.60	65	65 369
		5	0.75	0.87	0.60	66	66 368
		6	0.5	0.71	0.40	66	66 354
		D1	1.2	1.10	0.96	69	69 369
		2	1.1	1.05	0.88	69	69 370
		3	0.92	0.96	0.73	70	70 370
		4	0.8	0.89	0.64	73	73 371
		5	0.95	0.97	0.76	71	71 370
		6	0.55	0.74	0.44	71	71 368
Pstd	29.92						
Tstd	68						
% CO2	12						
% O2	8	AVERAGE	0.912	0.950	0.728	66.708	66.708 369.208
% CO	0						
% N2	80.00						
P BAR =	29.85						
P STK =	-0.05						
FINAL METER =	325.326	TS (R) =	829.2	DELTA H (ABS) =			29.90
LEAK CHK	0	TM (F) =	66.7	PS (ABS) =			29.85
INT METER =	208.922	TM (R) =	526.7	V1 (TOT) =			2534.7
VM (ACF) =	116.404						
VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)					
		(TM)					
VW STD =	0.4707 (V1 TOT)						
		VW (STD)					
BWO =							
	VW STD + VM STD						
1- BWO =	1 - BWO						
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)						
Ms (wet) =		MD (1-BWO)					
		+ 18 (BWO)					
G =	SQRT (TS / PS / MS)						
VS =	85.49(CP)(G)(SQRT DELTA P)						
H =	.002669 (V1 TOT)						
J =	(DELTA H ABS) (VM) (Y)/(TM)						
K =	(H) + (J)						
% ISO =	(TS) (K) (1.667)						
	(TIME) (VS) (PS) (AN)						

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
2-MonoCB-(1)	151	2-MonoCB-(1)	0.00005	2-MonoCB-(1)	0.00000	2-MonoCB-(1)	3.193E-06
3-MonoCB-(2)	64.1	3-MonoCB-(2)	0.00002	3-MonoCB-(2)	0.00000	3-MonoCB-(2)	1.356E-06
4-MonoCB-(3)	100	4-MonoCB-(3)	0.00003	4-MonoCB-(3)	0.00000	4-MonoCB-(3)	2.115E-06
22'-DiCB-(4)	181	22'-DiCB-(4)	0.00006	22'-DiCB-(4)	0.00000	22'-DiCB-(4)	3.828E-06
2,3-DiCB-(5)	8.08	2,3-DiCB-(5)	0.00000	2,3-DiCB-(5)	0.00000	2,3-DiCB-(5)	1.709E-07
2,3'-DiCB-(6)	60	2,3'-DiCB-(6)	0.00002	2,3'-DiCB-(6)	0.00000	2,3'-DiCB-(6)	1.269E-06
2,4-DiCB-(7)	33.7	2,4-DiCB-(7)	0.00001	2,4-DiCB-(7)	0.00000	2,4-DiCB-(7)	7.127E-07
2,4'-DiCB-(8)	168	2,4'-DiCB-(8)	0.00005	2,4'-DiCB-(8)	0.00000	2,4'-DiCB-(8)	3.553E-06
2,5-DiCB-(9)	46.5	2,5-DiCB-(9)	0.00001	2,5-DiCB-(9)	0.00000	2,5-DiCB-(9)	9.834E-07
2,6-DiCB-(10)	18.2	2,6-DiCB-(10)	0.00001	2,6-DiCB-(10)	0.00000	2,6-DiCB-(10)	3.849E-07
3,3'-DiCB-(11)	12.2	3,3'-DiCB-(11)	0.00000	3,3'-DiCB-(11)	0.00000	3,3'-DiCB-(11)	2.58E-07
DiCB-(12)+(13)	40.3	DiCB-(12)+(13)	0.00001	DiCB-(12)+(13)	0.00000	DiCB-(12)+(13)	8.522E-07
3,5-DiCB-(14)	ND	3,5-DiCB-(14)	0.00000	3,5-DiCB-(14)	0.00000	3,5-DiCB-(14)	0
4,4'-DiCB-(15)	71	4,4'-DiCB-(15)	0.00002	4,4'-DiCB-(15)	0.00000	4,4'-DiCB-(15)	1.501E-06
22'3'-TriCB-(16)	84.5	22'3'-TriCB-(16)	0.00003	22'3'-TriCB-(16)	0.00000	22'3'-TriCB-(16)	1.787E-06
22'4'-TriCB-(17)	75.8	22'4'-TriCB-(17)	0.00002	22'4'-TriCB-(17)	0.00000	22'4'-TriCB-(17)	1.603E-06
TriCB-(18)+(30)	149	TriCB-(18)+(30)	0.00005	TriCB-(18)+(30)	0.00000	TriCB-(18)+(30)	3.151E-06
22'6'-TriCB-(19)	47.8	22'6'-TriCB-(19)	0.00001	22'6'-TriCB-(19)	0.00000	22'6'-TriCB-(19)	1.011E-06
TriCB-(20) + (28)	188	TriCB-(20) + (28)	0.00006	TriCB-(20) + (28)	0.00000	TriCB-(20) + (28)	3.976E-06
TriCB-(21)+(33)	48.3	TriCB-(21)+(33)	0.00001	TriCB-(21)+(33)	0.00000	TriCB-(21)+(33)	1.021E-06
234'-TriCB-(22)	50.7	234'-TriCB-(22)	0.00002	234'-TriCB-(22)	0.00000	234'-TriCB-(22)	1.072E-06
235'-TriCB-(23)	0.38	235'-TriCB-(23)	0.00000	235'-TriCB-(23)	0.00000	235'-TriCB-(23)	8.036E-09
236'-TriCB-(24)	4.01	236'-TriCB-(24)	0.00000	236'-TriCB-(24)	0.00000	236'-TriCB-(24)	8.48E-08
23'4'-TriCB-(25)	16	23'4'-TriCB-(25)	0.00000	23'4'-TriCB-(25)	0.00000	23'4'-TriCB-(25)	3.384E-07
TriCB-(26)+(29)	34.2	TriCB-(26)+(29)	0.00001	TriCB-(26)+(29)	0.00000	TriCB-(26)+(29)	7.232E-07
23'6'-TriCB-(27)	13.2	23'6'-TriCB-(27)	0.00000	23'6'-TriCB-(27)	0.00000	23'6'-TriCB-(27)	2.791E-07
24'5'-TriCB-(31)	145	24'5'-TriCB-(31)	0.00004	24'5'-TriCB-(31)	0.00000	24'5'-TriCB-(31)	3.066E-06
24'6'-TriCB-(32)	65.5	24'6'-TriCB-(32)	0.00002	24'6'-TriCB-(32)	0.00000	24'6'-TriCB-(32)	1.385E-06
23'5'-TriCB-(34)	0.77	23'5'-TriCB-(34)	0.00000	23'5'-TriCB-(34)	0.00000	23'5'-TriCB-(34)	1.628E-08
33'4'-TriCB-(35)	5.09	33'4'-TriCB-(35)	0.00000	33'4'-TriCB-(35)	0.00000	33'4'-TriCB-(35)	1.076E-07
33'5'-TriCB-(36)	ND	33'5'-TriCB-(36)	0.00000	33'5'-TriCB-(36)	0.00000	33'5'-TriCB-(36)	0
344'-TriCB-(37)	30.4	344'-TriCB-(37)	0.00001	344'-TriCB-(37)	0.00000	344'-TriCB-(37)	6.429E-07
345'-TriCB-(38)	ND	345'-TriCB-(38)	0.00000	345'-TriCB-(38)	0.00000	345'-TriCB-(38)	0
34'5'-TriCB-(39)	0.82	34'5'-TriCB-(39)	0.00000	34'5'-TriCB-(39)	0.00000	34'5'-TriCB-(39)	1.734E-08
TetraCB-(40)+(41)+(71)	40.1	TetraCB-(40)+(41)+(71)	0.00001	TetraCB-(40)+(41)+(71)	0.00000	TetraCB-(40)+(41)+(71)	8.48E-07
22'34'-TetraCB-(42)	24.7	22'34'-TetraCB-(42)	0.00000	22'34'-TetraCB-(42)	0.00000	22'34'-TetraCB-(42)	0
22'35'-TetraCB-(43)	3.93	22'35'-TetraCB-(43)	0.00000	22'35'-TetraCB-(43)	0.00000	22'35'-TetraCB-(43)	8.311E-08
TetraCB-(44)+(47)+(65)	79	TetraCB-(44)+(47)+(65)	0.00002	TetraCB-(44)+(47)+(65)	0.00000	TetraCB-(44)+(47)+(65)	1.671E-06
TetraCB-(45)+(51)	32	TetraCB-(45)+(51)	0.00001	TetraCB-(45)+(51)	0.00000	TetraCB-(45)+(51)	6.767E-07
22'36'-TetraCB-(46)	9.14	22'36'-TetraCB-(46)	0.00000	22'36'-TetraCB-(46)	0.00000	22'36'-TetraCB-(46)	1.933E-07
22'45'-TetraCB-(48)	18.2	22'45'-TetraCB-(48)	0.00001	22'45'-TetraCB-(48)	0.00000	22'45'-TetraCB-(48)	3.849E-07
TetraCB-(49)+TetraCB-(69)	50.1	TetraCB-(49)+TetraCB-(69)	0.00002	TetraCB-(49)+TetraCB-(69)	0.00000	TetraCB-(49)+TetraCB-(69)	1.059E-06
TetraCB-(50)+(53)	23.2	TetraCB-(50)+(53)	0.00001	TetraCB-(50)+(53)	0.00000	TetraCB-(50)+(53)	4.906E-07
22'55'-TetraCB-(52)	86.8	22'55'-TetraCB-(52)	0.00003	22'55'-TetraCB-(52)	0.00000	22'55'-TetraCB-(52)	1.836E-06
22'66'-TetraCB-(54)	1.43	22'66'-TetraCB-(54)	0.00000	22'66'-TetraCB-(54)	0.00000	22'66'-TetraCB-(54)	3.024E-08
233'4'-TetraCB-(55)	0.756	233'4'-TetraCB-(55)	0.00000	233'4'-TetraCB-(55)	0.00000	233'4'-TetraCB-(55)	1.599E-08
233'4'-Tetra CB(56)	16.9	233'4'-Tetra CB(56)	0.00001	233'4'-Tetra CB(56)	0.00000	233'4'-Tetra CB(56)	3.574E-07
233'5'-TetraCB-(57)	0.312	233'5'-TetraCB-(57)	0.00000	233'5'-TetraCB-(57)	0.00000	233'5'-TetraCB-(57)	6.598E-09
233'5'-TetraCB-(58)	ND	233'5'-TetraCB-(58)	0.00000	233'5'-TetraCB-(58)	0.00000	233'5'-TetraCB-(58)	0
TetraCB-(59)+(62)+(75)	8.49	TetraCB-(59)+(62)+(75)	0.00000	TetraCB-(59)+(62)+(75)	0.00000	TetraCB-(59)+(62)+(75)	1.795E-07
2344'-TetraCB -(60)	9.65	2344'-TetraCB -(60)	0.00000	2344'-TetraCB -(60)	0.00000	2344'-TetraCB -(60)	2.041E-07
TetraCB-(61)+(70)+(74)+(76)	77.4	TetraCB-(61)+(70)+(74)+(76)	0.00002	TetraCB-(61)+(70)+(74)+(76)	0.00000	TetraCB-(61)+(70)+(74)+(76)	1.637E-06
234'5'-TetraCB-(63)	2.39	234'5'-TetraCB-(63)	0.00000	234'5'-TetraCB-(63)	0.00000	234'5'-TetraCB-(63)	5.054E-08
234'6'-TetraCB-(64)	47.2	234'6'-TetraCB-(64)	0.00001	234'6'-TetraCB-(64)	0.00000	234'6'-TetraCB-(64)	9.982E-07
23'44'-TetraCB-(66)	41	23'44'-TetraCB-(66)	0.00001	23'44'-TetraCB-(66)	0.00000	23'44'-TetraCB-(66)	8.67E-07
23'45'-TetraCB-(67)	2.38	23'45'-TetraCB-(67)	0.00000	23'45'-TetraCB-(67)	0.00000	23'45'-TetraCB-(67)	5.033E-08
23'45'-TetraCB-(68)	1.02	23'45'-TetraCB-(68)	0.00000	23'45'-TetraCB-(68)	0.00000	23'45'-TetraCB-(68)	2.157E-08
23'55'-TetraCB-(72)	0.387	23'55'-TetraCB-(72)	0.00000	23'55'-TetraCB-(72)	0.00000	23'55'-TetraCB-(72)	8.184E-09
23'5'6'-TetraCB-(73)	ND	23'5'6'-TetraCB-(73)	0.00000	23'5'6'-TetraCB-(73)	0.00000	23'5'6'-TetraCB-(73)	0
33'44'-TetraCB-(77)	3.88	33'44'-TetraCB-(77)	0.00000	33'44'-TetraCB-(77)	0.00000	33'44'-TetraCB-(77)	8.205E-08
33'45'-TetraCB-(78)	ND	33'45'-TetraCB-(78)	0.00000	33'45'-TetraCB-(78)	0.00000	33'45'-TetraCB-(78)	0
33'45'-TetraCB(79)	ND	33'45'-TetraCB(79)	0.00000	33'45'-TetraCB(79)	0.00000	33'45'-TetraCB(79)	0
33'55'-TetraCB-(80)	ND	33'55'-TetraCB-(80)	0.00000	33'55'-TetraCB-(80)	0.00000	33'55'-TetraCB-(80)	0
344'5'-TetraCB-(81)	0.213	344'5'-TetraCB-(81)	0.00000	344'5'-TetraCB-(81)	0.00000	344'5'-TetraCB-(81)	4.504E-09
22'33'4'-PentaCB-(82)	4.09	22'33'4'-PentaCB-(82)	0.00000	22'33'4'-PentaCB-(82)	0.00000	22'33'4'-PentaCB-(82)	8.649E-08
PentaCB-(83)+(99)	16.8	PentaCB-(83)+(99)	0.00001	PentaCB-(83)+(99)	0.00000	PentaCB-(83)+(99)	3.553E-07
22'33'6'-PentaCB-(84)	12.2	22'33'6'-PentaCB-(84)	0.00000	22'33'6'-PentaCB-(84)	0.00000	22'33'6'-PentaCB-(84)	2.58E-07
PentaCB-(85)+(116)+(117)	5.8	PentaCB-(85)+(116)+(117)	0.00000	PentaCB-(85)+(116)+(117)	0.00000	PentaCB-(85)+(116)+(117)	1.227E-07
PentaCB-(86)(87)(97)(109)(119)(125)	18.9	PentaCB-(86)(87)(97)(109)(119)(125)	0.00001	PentaCB-(86)(87)(97)(109)(119)(125)	0.00000	PentaCB-(86)(87)(97)(109)(119)(125)	3.997E-07
PentaCB-(88)+(91)	7.35	PentaCB-(88)+(91)	0.00000	PentaCB-(88)+(91)	0.00000	PentaCB-(88)+(91)	1.554E-07
22'346'-PentaCB-(89)	1.12	22'346'-PentaCB-(89)	0.00000	22'346'-PentaCB-(89)	0.00000	22'346'-PentaCB-(89)	0
PentaCB-(90)+(101)+(113)	25.3	PentaCB-(90)+(101)+(113)	0.00001	PentaCB-(90)+(101)+(113)	0.00000	PentaCB-(90)+(101)+(113)	5.35E-07
22'355'-PentaCB-(92)	4.78	22'355'-PentaCB-(92)	0.00000	22'355'-PentaCB-(92)	0.00000	22'355'-PentaCB-(92)	1.011E-07
PentaCB-(93)+(98)+(100)+(102)	3.04	PentaCB-(93)+(98)+(100)+(102)	0.00000	PentaCB-(93)+(98)+(100)+(102)	0.00000	PentaCB-(93)+(98)+(100)+(102)	6.429E-08
22'356'-PentaCB-(94)	0.411	22'356'-PentaCB-(94)	0.00000	22'356'-PentaCB-(94)	0.00000	22'356'-PentaCB-(94)	8.692E-09
22'35'6'-PentaCB-(95)	30.9	22'35'6'-PentaCB-(95)	0.00001	22'35'6'-PentaCB-(95)	0.00000	22'35'6'-PentaCB-(95)	6.535E-07
22'366'-PentaCB-(96)	ND	22'366'-PentaCB-(96)	0.00000	22'366'-PentaCB-(96)	0.00000	22'366'-PentaCB-(96)	0
22'45'6'-PentaCB-(103)	0.43	22'45'6'-PentaCB-(103)	0.00000	22'45'6'-PentaCB-(103)	0.00000	22'45'6'-PentaCB-(103)	9.093E-09
22'466'-PentaCB-(104)	ND	22'466'-PentaCB-(104)	0.00000	22'466'-PentaCB-(104)	0.00000	22'466'-PentaCB-(104)	0
233'44'-PentaCB-(105)	6.72	233'44'-PentaCB-(105)	0.00000	233'44'-PentaCB-(105)	0.00000	233'44'-PentaCB-(105)	1.421E-07
233'45'-PentaCB-(106)	ND	233'45'-PentaCB-(106)	0.00000	233'45'-PentaCB-(106)	0.00000	233'45'-PentaCB-(106)	0
233'4'5'-PentaCB-(107)	1.22	233'4'5'-PentaCB-(107)	0.00000	233'4'5'-PentaCB-(107)	0.00000	233'4'5'-PentaCB-(107)	2.58E-08
PentaCB-(108)+(124)	0.609	PentaCB-(108)+(124)	0.00000	PentaCB-(108)+(124)	0.00000	PentaCB-(108)+(124)	1.288E-08

PCB Catches in Nanograms		PCB Concentration mg/m3		PCB Concentration mg/dscf		PCB Emissions lbs/hr	
PentaCB-(110)+(115)	30.2	PentaCB-(110)+(115)	0.00001	PentaCB-(110)+(115)	0.00000	PentaCB-(110)+(115)	6.387E-07
233'55'-PentaCB-(111)	ND	233'55'-PentaCB-(111)	0.00000	233'55'-PentaCB-(111)	0.00000	233'55'-PentaCB-(111)	0
233'56'-PentaCB-(112)	ND	233'56'-PentaCB-(112)	0.00000	233'56'-PentaCB-(112)	0.00000	233'56'-PentaCB-(112)	0
2344'5'-PentaCB-(114)	0.641	2344'5'-PentaCB-(114)	0.00000	2344'5'-PentaCB-(114)	0.00000	2344'5'-PentaCB-(114)	1.356E-08
23'44'5'-PentaCB-(118)	18.3	23'44'5'-PentaCB-(118)	0.00001	23'44'5'-PentaCB-(118)	0.00000	23'44'5'-PentaCB-(118)	3.87E-07
23'45'5'-PentaCB-(120)	0.075	23'45'5'-PentaCB-(120)	0.00000	23'45'5'-PentaCB-(120)	0.00000	23'45'5'-PentaCB-(120)	1.586E-09
23'45'6'-PentaCB-(121)	ND	23'45'6'-PentaCB-(121)	0.00000	23'45'6'-PentaCB-(121)	0.00000	23'45'6'-PentaCB-(121)	0
233'4'5'-PentaCB-(122)	0.271	233'4'5'-PentaCB-(122)	0.00000	233'4'5'-PentaCB-(122)	0.00000	233'4'5'-PentaCB-(122)	5.731E-09
23'44'5'-PentaCB-(123)	0.311	23'44'5'-PentaCB-(123)	0.00000	23'44'5'-PentaCB-(123)	0.00000	23'44'5'-PentaCB-(123)	6.577E-09
33'44'5'-PentaCB-(126)	0.165	33'44'5'-PentaCB-(126)	0.00000	33'44'5'-PentaCB-(126)	0.00000	33'44'5'-PentaCB-(126)	3.489E-09
33'45'5'-PentaCB-(127)	ND	33'45'5'-PentaCB-(127)	0.00000	33'45'5'-PentaCB-(127)	0.00000	33'45'5'-PentaCB-(127)	0
HexaCB-(128)+(166)	2.25	HexaCB-(128)+(166)	0.00000	HexaCB-(128)+(166)	0.00000	HexaCB-(128)+(166)	4.758E-08
HexaCB-(129)+(138)+(163)	14.9	HexaCB-(129)+(138)+(163)	0.00000	HexaCB-(129)+(138)+(163)	0.00000	HexaCB-(129)+(138)+(163)	3.151E-07
22'33'45'-HexaCB-(130)	0.962	22'33'45'-HexaCB-(130)	0.00000	22'33'45'-HexaCB-(130)	0.00000	22'33'45'-HexaCB-(130)	2.034E-08
22'33'46'-HexaCB-(131)	0.309	22'33'46'-HexaCB-(131)	0.00000	22'33'46'-HexaCB-(131)	0.00000	22'33'46'-HexaCB-(131)	6.535E-09
22'33'46'-HexaCB-(132)	6.73	22'33'46'-HexaCB-(132)	0.00000	22'33'46'-HexaCB-(132)	0.00000	22'33'46'-HexaCB-(132)	1.423E-07
22'33'55'-HexaCB-(133)	0.194	22'33'55'-HexaCB-(133)	0.00000	22'33'55'-HexaCB-(133)	0.00000	22'33'55'-HexaCB-(133)	4.103E-09
HexaCB-(134)+(143)	0.885	HexaCB-(134)+(143)	0.00000	HexaCB-(134)+(143)	0.00000	HexaCB-(134)+(143)	1.872E-08
HexaCB-(135)+(151)	5.68	HexaCB-(135)+(151)	0.00000	HexaCB-(135)+(151)	0.00000	HexaCB-(135)+(151)	1.201E-07
22'33'66'-HexaCB-(136)	3.57	22'33'66'-HexaCB-(136)	0.00000	22'33'66'-HexaCB-(136)	0.00000	22'33'66'-HexaCB-(136)	7.55E-08
22'344'5'-HexaCB-(137)	0.809	22'344'5'-HexaCB-(137)	0.00000	22'344'5'-HexaCB-(137)	0.00000	22'344'5'-HexaCB-(137)	1.711E-08
HexaCB-(139)+(140)	0.357	HexaCB-(139)+(140)	0.00000	HexaCB-(139)+(140)	0.00000	HexaCB-(139)+(140)	7.55E-09
22'3455'-HexaCB-(141)	2.26	22'3455'-HexaCB-(141)	0.00000	22'3455'-HexaCB-(141)	0.00000	22'3455'-HexaCB-(141)	4.779E-08
22'3456'-HexaCB-(142)	ND	22'3456'-HexaCB-(142)	0.00000	22'3456'-HexaCB-(142)	0.00000	22'3456'-HexaCB-(142)	0
22'345'6'-HexaCB-(144)	0.796	22'345'6'-HexaCB-(144)	0.00000	22'345'6'-HexaCB-(144)	0.00000	22'345'6'-HexaCB-(144)	1.683E-08
22'3466'-HexaCB-(145)	ND	22'3466'-HexaCB-(145)	0.00000	22'3466'-HexaCB-(145)	0.00000	22'3466'-HexaCB-(145)	0
22'34'55'-HexaCB-(146)	2.1	22'34'55'-HexaCB-(146)	0.00000	22'34'55'-HexaCB-(146)	0.00000	22'34'55'-HexaCB-(146)	4.441E-08
HexaCB-(147)+(149)	14.1	HexaCB-(147)+(149)	0.00000	HexaCB-(147)+(149)	0.00000	HexaCB-(147)+(149)	2.982E-07
22'34'56'-HexaCB-(148)	ND	22'34'56'-HexaCB-(148)	0.00000	22'34'56'-HexaCB-(148)	0.00000	22'34'56'-HexaCB-(148)	0
22'34'66'-HexaCB-(150)	0.087	22'34'66'-HexaCB-(150)	0.00000	22'34'66'-HexaCB-(150)	0.00000	22'34'66'-HexaCB-(150)	1.84E-09
22'3566'-HexaCB-(152)	0.072	22'3566'-HexaCB-(152)	0.00000	22'3566'-HexaCB-(152)	0.00000	22'3566'-HexaCB-(152)	1.523E-09
HexaCB-(153)+(168)	10.7	HexaCB-(153)+(168)	0.00000	HexaCB-(153)+(168)	0.00000	HexaCB-(153)+(168)	2.263E-0

PCB Catches in Nanograms

Trichlorobiphenyl	960
Tetrachlorobiphenyl	581
Pentachlorobiphenyl	190
Hexachlorobiphenyl	71.1
Heptachlorobiphenyl	26.4
Octachlorobiphenyl	5.29
Nonachlorobiphenyl	1.28
Decachlorobiphenyl	0.707
Total Nanograms	2788.468
Surrogate Recovery (%)	
C13-2,44'-TriCB-(28)	90
C13-22'33'44'55'6-NonaCB-(206)	94
C13-22'33'44'5-HeptaCB-(170)	87

PCB Concentration mg/m3

Trichlorobiphenyl	0.00030
Tetrachlorobiphenyl	0.00018
Pentachlorobiphenyl	0.00006
Hexachlorobiphenyl	0.00002
Heptachlorobiphenyl	0.00001
Octachlorobiphenyl	0.00000
Nonachlorobiphenyl	0.00000
Decachlorobiphenyl	0.00000
Total mg/m3	0.0008613

PCB Concentration mg/dscf

Trichlorobiphenyl	0.00001
Tetrachlorobiphenyl	0.00001
Pentachlorobiphenyl	0.00000
Hexachlorobiphenyl	0.00000
Heptachlorobiphenyl	0.00000
Octachlorobiphenyl	0.00000
Nonachlorobiphenyl	0.00000
Decachlorobiphenyl	0.00000
Total mg/DSCF	2.439E-05

PCB Emissions lbs/hr

Trichlorobiphenyl	2.03E-05
Tetrachlorobiphenyl	1.229E-05
Pentachlorobiphenyl	4.018E-06
Hexachlorobiphenyl	1.504E-06
Heptachlorobiphenyl	5.583E-07
Octachlorobiphenyl	1.119E-07
Nonachlorobiphenyl	2.707E-08
Decachlorobiphenyl	1.495E-08
Total lbs/hr	5.903E-05

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	M0010	FILE:	
UNIT:	Direct Fired			START TIME:	09:00 TIME:
DATE:	08-Feb-07		SVOCR1	END TIME:	14:50 240
LENGTH:	74.00	WIDTH:	26.00		
As (SQFT)	13.36				

			K =	15.40				
	1 = ALL THE WAY IN	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP	
Y =	0.9952	A1	1.1	1.05	0.88	58	58	358
		2	1	1.00	0.80	59	59	361
PITOT CO	0.84	3	0.85	0.92	0.68	62	62	363
		4	0.8	0.89	0.64	64	64	364
IMP-1 IN	200	5	0.65	0.81	0.52	68	68	361
IMP-2 IN	0	6	0.47	0.69	0.37	71	71	354
IMP-3 IN	0	B1	1.2	1.10	0.96	62	62	370
IMP-4 IN	253.6	2	1	1.00	0.80	71	71	368
		3	0.85	0.92	0.68	72	72	363
		4	0.8	0.89	0.64	59	59	368
		5	0.63	0.79	0.49	63	63	365
	49.87 %moisture	6	0.3	0.55	0.24	69	69	341
IMP-1FIN	2609	2409 C1	1.2	1.10	0.96	75	75	369
IMP-2FIN	0	0 2	1	1.00	0.80	75	75	371
IMP-3FIN	0	0 3	0.81	0.90	0.64	75	75	374
IMP-4FIN	295.8	42.2 4	0.84	0.92	0.67	71	71	371
		2451.2 5	0.92	0.96	0.73	63	63	371
		6	0.45	0.67	0.36	69	69	354
		D1	1	1.00	0.80	70	70	362
		2	1	1.00	0.80	72	72	366
		3	1.1	1.05	0.88	73	73	367
		4	0.9	0.95	0.72	73	73	366
		5	0.89	0.94	0.71	74	74	365
		6	0.55	0.74	0.44	74	74	242

Pstd	29.92						
Tstd	68						
% CO2	5.99	AVERAGE	0.846	0.910	0.675	68.417	358.917
% O2	9.10		0.828 ENTROPY VALUE				
% CO	0.00						
% N2	84.91						
P BAR =	29.95		TS (°R) =	818.9	DELTA H (ABS) =		30.00
P STK =	-0.05				PS (ABS) =		29.95

FINAL METER =	1093.413	TM (°R) =	528.4	V1 (TOT) =	2451.20
LEAK CHK	0.134				
INT METER =	976.965				
VM (ACF) =	116.314				

VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)	=	115.97 DSCF
		(TM)		
VW STD =	0.4707 (V1 TOT)		=	115.38 CF
		VW (STD)		
BWO =			=	0.499
		VW STD + VM STD		49.87 % MOIST
1- BWO =	1 - BWO		=	0.501
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		=	29.3224 LBS/LB MOLE
Ms (wet) =	MD (1-BWO) + 18 (BWO)		=	23.68 LBS/LB MOLE
G =	SQRT (TS / PS / MS)		=	1.07
VS =	85.49(CP)(G)(SQRT DELTA P)avg		=	70.2146 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)		=	1092086.05 DSCFH 18201 DSCFM 56323 ACFM 36310 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M0010	FILE:	0			
UNIT:	Direct Fired		SVOCR1	START TIME:		09:00	TIME:	
DATE:	39121			END TIME:		14:50		240
DS =	74.00							
AS (SQFT)	4298.66							
DN =	0.253							
		DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP	
AN =	0.00035	A1	1.1	1.05	0.88	58	58	358
Y =	0.9952	2	1	1.00	0.80	59	59	361
PITOT CO	0.84	3	0.85	0.92	0.68	62	62	363
		4	0.8	0.89	0.64	64	64	364
IMP-1 IN	200	5	0.65	0.81	0.52	68	68	361
IMP-2 IN	0	0 6	0.47	0.69	0.37	71	71	354
IMP-3 IN	0	0 B1	1.2	1.10	0.96	62	62	370
IMP-4 IN	253.6	2	1	1.00	0.80	71	71	368
		3	0.85	0.92	0.68	72	72	363
IMP-1FIN	2609	4	0.8	0.89	0.64	59	59	368
IMP-2FIN	0	5	0.63	0.79	0.49	63	63	365
IMP-3FIN	0	6	0.3	0.55	0.24	69	69	341
IMP-4FIN	295.8	C1	1.2	1.10	0.96	75	75	369
		2	1	1.00	0.80	75	75	371
		3	0.81	0.90	0.64	75	75	374
		4	0.84	0.92	0.67	71	71	371
		5	0.92	0.96	0.73	63	63	371
		6	0.45	0.67	0.36	69	69	354
		D1	1	1.00	0.80	70	70	362
		2	1	1.00	0.80	72	72	366
		3	1.1	1.05	0.88	73	73	367
		4	0.9	0.95	0.72	73	73	366
		5	0.89	0.94	0.71	74	74	365
		6	0.55	0.74	0.44	74	74	242
Pstd	29.92							
Tstd	68							
% CO2	5.99							
% O2	9.1	AVERAGE	0.846	0.910	0.675	68.417	68.417	358.917
% CO	0							
% N2	84.91							
P BAR =	29.95							
P STK =	-0.05							
		TS (R) =	818.9	DELTA H (ABS) =	30.00			
FINAL METER =	1093.413	TM (F) =	68.4	PS (ABS) =	29.95			
LEAK CHK	0.134	TM (R) =	528.4	V1 (TOT) =	2451.2			
INT METER =	976.965							
VM (ACF) =	116.314							
		(VM)(Y)(DELTA H ABS)						
VM STD =	(Tstd/Pstd)	-----	=		115.97	DSCF		
		(TM)						
VW STD =	0.4707 (V1 TOT)		=		115.38	CF		
		VW (STD)						
BWO =	-----		=		0.499			
	VW STD + VM STD				49.87			
1- BWO =	1 - BWO		=		0.501			
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		=		29.3224	LBS/LB		
						MOLE		
Ms (wet) =	MD (1-BWO)							
	+ 18 (BWO)							
	-----		=		23.68	LBS/LB		
						MOLE		
G =	SQRT (TS / PS / MS)		=		1.07			
VS =	85.49(CP)(G)(SQRT DELTA P)		=		70.21	FPS		
H =	.002669 (V1 TOT)		=		6.54			
J =	(DELTA H ABS) (VM) (Y)/(TM)		=		6.57			
K =	(H) + (J)		=		13.11			
% ISO =	(TS) (K) (1.667)							
	-----		=		101.7	%		
	(TIME) (VS) (PS) (AN)							

SVOC Catches in Micrograms		SVOC Concentration mg/m3		SVOC Concentration mg/dscf		SVOC Emissions lbs/hr	
1,2,4-Trichlorobenzene	ND	1,2,4-Trichlorobenzene		1,2,4-Trichlorobenzene		1,2,4-Trichlorobenzene	0
1,2-Dichlorobenzene	ND	1,2-Dichlorobenzene		1,2-Dichlorobenzene		1,2-Dichlorobenzene	0
1,3-Dichlorobenzene	ND	1,3-Dichlorobenzene		1,3-Dichlorobenzene		1,3-Dichlorobenzene	0
1,4-Dichlorobenzene	ND	1,4-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dichlorobenzene	0
1-Chloronaphthalene	ND	1-Chloronaphthalene		1-Chloronaphthalene		1-Chloronaphthalene	0
2,4,5-Trichlorophenol	ND	2,4,5-Trichlorophenol		2,4,5-Trichlorophenol		2,4,5-Trichlorophenol	0
2,4,6-Trichlorophenol	ND	2,4,6-Trichlorophenol		2,4,6-Trichlorophenol		2,4,6-Trichlorophenol	0
2,4-Dichlorophenol	ND	2,4-Dichlorophenol		2,4-Dichlorophenol		2,4-Dichlorophenol	0
2,4-Dimethylphenol	15	2,4-Dimethylphenol	0.00457	2,4-Dimethylphenol	0.00013	2,4-Dimethylphenol	0.0003114
2,4-Dinitrophenol	ND	2,4-Dinitrophenol		2,4-Dinitrophenol		2,4-Dinitrophenol	0
2,4-Dinitrotoluene	ND	2,4-Dinitrotoluene		2,4-Dinitrotoluene		2,4-Dinitrotoluene	0
2,6-Dinitrotoluene	ND	2,6-Dinitrotoluene		2,6-Dinitrotoluene		2,6-Dinitrotoluene	0
2-Chloronaphthalene	ND	2-Chloronaphthalene		2-Chloronaphthalene		2-Chloronaphthalene	0
2-Chlorophenol	ND	2-Chlorophenol		2-Chlorophenol		2-Chlorophenol	0
2-Methylnaphthalene	13	2-Methylnaphthalene	0.00396	2-Methylnaphthalene	0.00011	2-Methylnaphthalene	0.0002699
2-Methylphenol	36	2-Methylphenol	0.01096	2-Methylphenol	0.00031	2-Methylphenol	0.0007474
2-Nitroaniline	ND	2-Nitroaniline		2-Nitroaniline		2-Nitroaniline	0
2-Nitrophenol	5	2-Nitrophenol	0.00152	2-Nitrophenol	0.00004	2-Nitrophenol	0.0001038
3 & 4-methylphenol	94	3 & 4-methylphenol	0.02862	3 & 4-methylphenol	0.00081	3 & 4-methylphenol	0.0019515
3,3'-Dichlorobenzidine	ND	3,3'-Dichlorobenzidine		3,3'-Dichlorobenzidine		3,3'-Dichlorobenzidine	0
3-Nitroaniline	ND	3-Nitroaniline		3-Nitroaniline		3-Nitroaniline	0
4,6-Dinitro-2-methylphenol	ND	4,6-Dinitro-2-methylphenol		4,6-Dinitro-2-methylphenol		4,6-Dinitro-2-methylphenol	0
4-Bromophenyl phenyl ether	ND	4-Bromophenyl phenyl ether		4-Bromophenyl phenyl ether		4-Bromophenyl phenyl ether	0
4-Chloro-3-Methylphenol	ND	4-Chloro-3-Methylphenol		4-Chloro-3-Methylphenol		4-Chloro-3-Methylphenol	0
4-Chloroaniline	ND	4-Chloroaniline		4-Chloroaniline		4-Chloroaniline	0
4-Chlorophenyl phenyl ether	ND	4-Chlorophenyl phenyl ether		4-Chlorophenyl phenyl ether		4-Chlorophenyl phenyl ether	0
4-Nitroaniline	ND	4-Nitroaniline		4-Nitroaniline		4-Nitroaniline	0
4-Nitrophenol	ND	4-Nitrophenol		4-Nitrophenol		4-Nitrophenol	0
Acenaphthene	2	Acenaphthene	0.00061	Acenaphthene	0.00002	Acenaphthene	4.152E-05
Acenaphthylene	2	Acenaphthylene	0.00061	Acenaphthylene	0.00002	Acenaphthylene	4.152E-05
Aniline	ND	Aniline		Aniline		Aniline	0
Anthracene	2.3	Anthracene	0.00070	Anthracene	0.00002	Anthracene	4.775E-05
Benzidine	ND	Benzidine		Benzidine		Benzidine	0
Benzo(a)anthracene	1.5	Benzo(a)anthracene	0.00046	Benzo(a)anthracene	0.00001	Benzo(a)anthracene	3.114E-05
Benzo(a)pyrene	ND	Benzo(a)pyrene		Benzo(a)pyrene		Benzo(a)pyrene	0
Benzo(b)fluoranthene	1.5	Benzo(b)fluoranthene	0.00046	Benzo(b)fluoranthene	0.00001	Benzo(b)fluoranthene	3.114E-05
Benzo(g,h,i)perylene	0.9	Benzo(g,h,i)perylene	0.00027	Benzo(g,h,i)perylene	0.00001	Benzo(g,h,i)perylene	1.868E-05
Benzo(k)fluoranthene	1	Benzo(k)fluoranthene	0.00030	Benzo(k)fluoranthene	0.00001	Benzo(k)fluoranthene	2.076E-05
Benzoic Acid	49	Benzoic Acid	0.01492	Benzoic Acid	0.00042	Benzoic Acid	0.0010173
Benzyl Alcohol	ND	Benzyl Alcohol		Benzyl Alcohol		Benzyl Alcohol	0
Benzyl butyl phthalate	1	Benzyl butyl phthalate	0.00030	Benzyl butyl phthalate	0.00001	Benzyl butyl phthalate	2.076E-05
Biphenyl	7	Biphenyl	0.00213	Biphenyl	0.00006	Biphenyl	0.0001453
Bis(2-chloroethoxy)methane	ND	Bis(2-chloroethoxy)methane		Bis(2-chloroethoxy)methane		Bis(2-chloroethoxy)methane	0
Bis(2-chloroethyl)ether	5	Bis(2-chloroethyl)ether	0.00152	Bis(2-chloroethyl)ether	0.00004	Bis(2-chloroethyl)ether	0.0001038
Bis(2-chloroisopropyl)ether	ND	Bis(2-chloroisopropyl)ether		Bis(2-chloroisopropyl)ether		Bis(2-chloroisopropyl)ether	0
Bis(2-ethylhexyl)phthalate	17	Bis(2-ethylhexyl)phthalate	0.00518	Bis(2-ethylhexyl)phthalate	0.00015	Bis(2-ethylhexyl)phthalate	0.0003529
Carbazole	ND	Carbazole		Carbazole		Carbazole	0
Chrysene	2	Chrysene	0.00061	Chrysene	0.00002	Chrysene	4.152E-05
Dibenzo(a,h)anthracene	ND	Dibenzo(a,h)anthracene		Dibenzo(a,h)anthracene		Dibenzo(a,h)anthracene	0
Dibenzofuran	ND	Dibenzofuran		Dibenzofuran		Dibenzofuran	0
Diethyl phthalate	17	Diethyl phthalate	0.00518	Diethyl phthalate	0.00015	Diethyl phthalate	0.0003529
Dimethyl phthalate	ND	Dimethyl phthalate		Dimethyl phthalate		Dimethyl phthalate	0
Di-N-butyl phthalate	ND	Di-N-butyl phthalate		Di-N-butyl phthalate		Di-N-butyl phthalate	0
Di-N-octyl phthalate	ND	Di-N-octyl phthalate		Di-N-octyl phthalate		Di-N-octyl phthalate	0
Fluoranthene	5.4	Fluoranthene	0.00164	Fluoranthene	0.00005	Fluoranthene	0.0001121
Fluorene	2.6	Fluorene	0.00079	Fluorene	0.00002	Fluorene	5.398E-05
Hexachlorobenzene	ND	Hexachlorobenzene		Hexachlorobenzene		Hexachlorobenzene	0
Hexachlorobutadiene	ND	Hexachlorobutadiene		Hexachlorobutadiene		Hexachlorobutadiene	0
Hexachlorocyclopentadiene	ND	Hexachlorocyclopentadiene		Hexachlorocyclopentadiene		Hexachlorocyclopentadiene	0
Hexachloroethane	ND	Hexachloroethane		Hexachloroethane		Hexachloroethane	0
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene	0
Isophorone	ND	Isophorone		Isophorone		Isophorone	0
Naphthalene	28	Naphthalene	0.00853	Naphthalene	0.00024	Naphthalene	0.0005813
Nitrobenzene	ND	Nitrobenzene		Nitrobenzene		Nitrobenzene	0
N-Nitrosodimethylamine	ND	N-Nitrosodimethylamine		N-Nitrosodimethylamine		N-Nitrosodimethylamine	0
N-Nitroso-di-n-propylamine	ND	N-Nitroso-di-n-propylamine		N-Nitroso-di-n-propylamine		N-Nitroso-di-n-propylamine	0
N-Nitrosodiphenylamine	ND	N-Nitrosodiphenylamine		N-Nitrosodiphenylamine		N-Nitrosodiphenylamine	0
Pentachlorophenol	ND	Pentachlorophenol		Pentachlorophenol		Pentachlorophenol	0
Phenanthrene	12.3	Phenanthrene	0.00375	Phenanthrene	0.00011	Phenanthrene	0.0002554
Phenol	273	Phenol	0.08313	Phenol	0.00235	Phenol	0.0056677
Pyrene	3.1	Pyrene	0.00094	Pyrene	0.00003	Pyrene	6.436E-05
Surrogate Recovery (%)		Surrogate Recovery (%)		Surrogate Recovery (%)		Surrogate Recovery (%)	
2,4,6-Tribromophenol		2,4,6-Tribromophenol		2,4,6-Tribromophenol		2,4,6-Tribromophenol	
2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)	
2-Fluorobiphenyl		2-Fluorobiphenyl		2-Fluorobiphenyl		2-Fluorobiphenyl	
2-Fluorophenol		2-Fluorophenol		2-Fluorophenol		2-Fluorophenol	
D10-Pyrene (FS)		D10-Pyrene (FS)		D10-Pyrene (FS)		D10-Pyrene (FS)	
D14-Terphenyl (FS)		D14-Terphenyl (FS)		D14-Terphenyl (FS)		D14-Terphenyl (FS)	
D5-Nitrobenzene		D5-Nitrobenzene		D5-Nitrobenzene		D5-Nitrobenzene	
D5-Phenol		D5-Phenol		D5-Phenol		D5-Phenol	

FACILITY:	FBR	METHOD:	M0010	FILE:	
UNIT:	Direct Fired			START TIME:	16:30
DATE:	18-Dec-06		SVOCR2	END TIME:	20:55
LENGTH:	74.00	WIDTH:	26.00		240
As (SQFT)	13.36				
		1 = ALL THE WAY IN	DEP P	K =	0.80
Y =	0.9952	A1	0.95	0.97	0.76
		2	1	1.00	0.80
PITOT CO	0.84	3	0.96	0.98	0.77
		4	0	0.00	0.80
IMP-1 IN	200	5	0.98	0.99	0.78
IMP-2 IN	0	6	0.72	0.85	0.57
IMP-3 IN	0	B1	1.2	1.10	0.96
IMP-4 IN	254.3	2	1	1.00	0.80
		3	0.9	0.95	0.72
		4	0.75	0.87	0.60
		5	0.9	0.95	0.80
	46.37 %moisture	6	0.8	0.89	0.64
IMP-1FIN	2282	2082 C1	1.2	1.10	0.96
IMP-2FIN	0	0 2	1	1.00	0.80
IMP-3FIN	0	0 3	1	1.00	0.80
IMP-4FIN	299	44.7 4	0.8	0.89	0.64
		2126.7 5	0.72	0.85	0.57
		6	0.6	0.77	0.48
		D1	1	1.00	0.80
		2	1	1.00	0.80
		3	0.9	0.95	0.72
		4	0.7	0.84	0.56
		5	0.55	0.74	0.44
		6	0.5	0.71	0.40
Pstd	29.92				
Tstd	68				
% CO2	6.20	AVERAGE	0.839	0.891	0.707
% O2	9.78		0.795	ENTROPY VALUE	
% CO	0.00				
% N2	84.02				
P BAR =	29.85		TS (°R) =	829.6	DELTA H (ABS) =
P STK =	-0.05				PS (ABS) =
FINAL METER =	208.725		TM (°R) =	521.3	V1 (TOT) =
LEAK CHK	0				
INT METER =	93.81				
VM (ACF) =	114.915				
		(VM)(Y)(DELTA H ABS)			
VM STD =	(Tstd/Pstd)	-----			115.76 DSCF
		(TM)			
VW STD =	0.4707	(VI TOT)			100.10 CF
		VW (STD)			
BWO =	-----				0.464
	VW STD + VM STD				46.37 % MOIST
1- BWO =	1 - BWO				0.536
MD(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)				29.3832 LBS/LB
					MOLE
Ms (wet) =	MD (1-BWO)				
	+ 18 (BWO)				
	-----				24.10 LBS/LB
					MOLE
G =	SQRT (TS / PS / MS)				1.07
VS =	85.49(CP)(G)(SQRT DELTA P)avg				68.7379 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)				1125269.72 DSCFH
					18754 DSCFM
					55138 ACFM
					34972 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M0010	FILE:	0			
UNIT:	Direct Fired		SVOCR2	START TIME:		16:30	TIME:	
DATE:	39069			END TIME:		20:55		240
Ds =	74.00							
As (SQFT)	4298.66							
Dn =	0.253							
An =	0.00035	A1	0.95	0.97	0.76	61	61	364
Y =	0.9952	2	1	1.00	0.80	61	61	368
PITOT CO	0.84	3	0.96	0.98	0.77	63	63	370
		4	0	0.00	0.80	65	65	370
IMP-1 IN	200	5	0.98	0.99	0.78	66	66	369
IMP-2 IN	0	0 6	0.72	0.85	0.57	68	68	347
IMP-3 IN	0	0 B1	1.2	1.10	0.96	66	66	373
IMP-4 IN	254.3	2	1	1.00	0.80	63	63	374
		3	0.9	0.95	0.72	61	61	374
IMP-1FIN	2282	4	0.75	0.87	0.60	62	62	374
IMP-2FIN	0	5	0.9	0.95	0.80	60	60	372
IMP-3FIN	0	6	0.8	0.89	0.64	58	58	360
IMP-4FIN	299	C1	1.2	1.10	0.96	55	55	373
		2	1	1.00	0.80	55	55	372
		3	1	1.00	0.80	54	54	370
		4	0.8	0.89	0.64	54	54	373
		5	0.72	0.85	0.57	58	58	368
		6	0.6	0.77	0.48	61	61	365
		D1	1	1.00	0.80	63	63	370
		2	1	1.00	0.80	62	62	369
		3	0.9	0.95	0.72	62	62	372
		4	0.7	0.84	0.56	64	64	374
		5	0.55	0.74	0.44	64	64	375
		6	0.5	0.71	0.40	65	65	374
Pstd	29.92							
Tstd	68							
% CO2	6.2							
% O2	9.78	AVERAGE	0.839	0.891	0.707	61.292	61.292	369.583
% CO	0							
% N2	84.02							
P BAR =	29.85							
P STK =	-0.05							
			TS (R) =	829.6	DELTA H (ABS) =			29.90
FINAL METER =	208.725		TM (F) =	61.3	PS (ABS) =			29.85
LEAK CHK	0		TM (R) =	521.3	V1 (TOT) =			2126.7
INT METER =	93.81							
VM (ACF) =	114.915							
			(VM)(Y)(DELTA H ABS)					
VM STD =	(Tstd/Pstd)		(TM)	=		115.76	DSCF	
VW STD =	0.4707 (V1 TOT)			=		100.10	CF	
			VW (STD)					
BWO =				=		0.464		
			VW STD + VM STD			46.37		
1- BWO =			1 - BWO	=		0.536		
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)			=		29.3832	LBS/LB MOLE	
Ms (wet) =			MD (1-BWO) + 18 (BWO)					
				=		24.10	LBS/LB MOLE	
G =	SQRT (TS / PS / MS)			=		1.07		
VS =	85.49(CP)(G)(SQRT DELTA P)			=		68.74	FPS	
H =	.002669 (V1 TOT)			=		5.68		
J =	(DELTA H ABS) (VM) (Y)/(TM)			=		6.56		
K =	(H) + (J)			=		12.24		
% ISO =	(TS) (K) (1.667)			=		98.5	%	
			(TIME) (VS) (PS) (AN)					

SVOC Catches in Micrograms		SVOC Concentration mg/m3		SVOC Concentration mg/dscf		SVOC Emissions lbs/hr	
1,2,4-Trichlorobenzene	ND	1,2,4-Trichlorobenzene		1,2,4-Trichlorobenzene		1,2,4-Trichlorobenzene	0
1,2-Dichlorobenzene	ND	1,2-Dichlorobenzene		1,2-Dichlorobenzene		1,2-Dichlorobenzene	0
1,3-Dichlorobenzene	ND	1,3-Dichlorobenzene		1,3-Dichlorobenzene		1,3-Dichlorobenzene	0
1,4-Dichlorobenzene	ND	1,4-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dichlorobenzene	0
1-Chloronaphthalene	ND	1-Chloronaphthalene		1-Chloronaphthalene		1-Chloronaphthalene	0
2,4,5-Trichlorophenol	ND	2,4,5-Trichlorophenol		2,4,5-Trichlorophenol		2,4,5-Trichlorophenol	0
2,4,6-Trichlorophenol	ND	2,4,6-Trichlorophenol		2,4,6-Trichlorophenol		2,4,6-Trichlorophenol	0
2,4-Dichlorophenol	ND	2,4-Dichlorophenol		2,4-Dichlorophenol		2,4-Dichlorophenol	0
2,4-Dimethylphenol	35	2,4-Dimethylphenol	0.01068	2,4-Dimethylphenol	0.00030	2,4-Dimethylphenol	0.00075
2,4-Dinitrophenol	ND	2,4-Dinitrophenol		2,4-Dinitrophenol		2,4-Dinitrophenol	0
2,4-Dinitrotoluene	ND	2,4-Dinitrotoluene		2,4-Dinitrotoluene		2,4-Dinitrotoluene	0
2,6-Dinitrotoluene	ND	2,6-Dinitrotoluene		2,6-Dinitrotoluene		2,6-Dinitrotoluene	0
2-Chloronaphthalene	ND	2-Chloronaphthalene		2-Chloronaphthalene		2-Chloronaphthalene	0
2-Chlorophenol	ND	2-Chlorophenol		2-Chlorophenol		2-Chlorophenol	0
2-Methylnaphthalene	29	2-Methylnaphthalene	0.00885	2-Methylnaphthalene	0.00025	2-Methylnaphthalene	0.0006215
2-Methylphenol	72	2-Methylphenol	0.02196	2-Methylphenol	0.00062	2-Methylphenol	0.0015429
2-Nitroaniline	ND	2-Nitroaniline		2-Nitroaniline		2-Nitroaniline	0
2-Nitrophenol	ND	2-Nitrophenol		2-Nitrophenol		2-Nitrophenol	0
3 & 4-methylphenol	160	3 & 4-methylphenol	0.04881	3 & 4-methylphenol	0.00138	3 & 4-methylphenol	0.0034288
3,3'-Dichlorobenzidine	ND	3,3'-Dichlorobenzidine		3,3'-Dichlorobenzidine		3,3'-Dichlorobenzidine	0
3-Nitroaniline	ND	3-Nitroaniline		3-Nitroaniline		3-Nitroaniline	0
4,6-Dinitro-2-methylphenol	ND	4,6-Dinitro-2-methylphenol		4,6-Dinitro-2-methylphenol		4,6-Dinitro-2-methylphenol	0
4-Bromophenyl phenyl ether	ND	4-Bromophenyl phenyl ether		4-Bromophenyl phenyl ether		4-Bromophenyl phenyl ether	0
4-Chloro-3-Methylphenol	13	4-Chloro-3-Methylphenol	0.00397	4-Chloro-3-Methylphenol	0.00011	4-Chloro-3-Methylphenol	0.0002786
4-Chloroaniline	ND	4-Chloroaniline		4-Chloroaniline		4-Chloroaniline	0
4-Chlorophenyl phenyl ether	ND	4-Chlorophenyl phenyl ether		4-Chlorophenyl phenyl ether		4-Chlorophenyl phenyl ether	0
4-Nitroaniline	ND	4-Nitroaniline		4-Nitroaniline		4-Nitroaniline	0
4-Nitrophenol	ND	4-Nitrophenol		4-Nitrophenol		4-Nitrophenol	0
Acenaphthene	9	Acenaphthene	0.00275	Acenaphthene	0.00008	Acenaphthene	0.0001929
Acenaphthylene	9	Acenaphthylene	0.00275	Acenaphthylene	0.00008	Acenaphthylene	0.0001929
Aniline	ND	Aniline		Aniline		Aniline	0
Anthracene	11.8	Anthracene	0.00360	Anthracene	0.00010	Anthracene	0.0002529
Benzidine	ND	Benzidine		Benzidine		Benzidine	0
Benzo(a)anthracene	4.5	Benzo(a)anthracene	0.00137	Benzo(a)anthracene	0.00004	Benzo(a)anthracene	9.643E-05
Benzo(a)pyrene	1	Benzo(a)pyrene	0.00031	Benzo(a)pyrene	0.00001	Benzo(a)pyrene	2.143E-05
Benzo(b)fluoranthene	3.8	Benzo(b)fluoranthene	0.00116	Benzo(b)fluoranthene	0.00003	Benzo(b)fluoranthene	8.143E-05
Benzo(g,h,i)perylene	ND	Benzo(g,h,i)perylene		Benzo(g,h,i)perylene		Benzo(g,h,i)perylene	0
Benzo(k)fluoranthene	1	Benzo(k)fluoranthene	0.00031	Benzo(k)fluoranthene	0.00001	Benzo(k)fluoranthene	2.143E-05
Benzoic Acid	72	Benzoic Acid	0.02196	Benzoic Acid	0.00062	Benzoic Acid	0.0015429
Benzyl Alcohol	ND	Benzyl Alcohol		Benzyl Alcohol		Benzyl Alcohol	0
Benzyl butyl phthalate	ND	Benzyl butyl phthalate		Benzyl butyl phthalate		Benzyl butyl phthalate	0
Biphenyl	12	Biphenyl	0.00366	Biphenyl	0.00010	Biphenyl	0.0002572
Bis(2-chloroethoxy)methane	4	Bis(2-chloroethoxy)methane	0.00122	Bis(2-chloroethoxy)methane	0.00003	Bis(2-chloroethoxy)methane	8.572E-05
Bis(2-chloroethyl)ether	ND	Bis(2-chloroethyl)ether		Bis(2-chloroethyl)ether		Bis(2-chloroethyl)ether	0
Bis(2-chloroisopropyl)ether	ND	Bis(2-chloroisopropyl)ether		Bis(2-chloroisopropyl)ether		Bis(2-chloroisopropyl)ether	0
Bis(2-ethylhexyl)phthalate	14	Bis(2-ethylhexyl)phthalate	0.00427	Bis(2-ethylhexyl)phthalate	0.00012	Bis(2-ethylhexyl)phthalate	0.0003
Carbazole	ND	Carbazole		Carbazole		Carbazole	0
Chrysene	5.8	Chrysene	0.00177	Chrysene	0.00005	Chrysene	0.0001243
Dibenzo(a,h)anthracene	ND	Dibenzo(a,h)anthracene		Dibenzo(a,h)anthracene		Dibenzo(a,h)anthracene	0
Dibenzofuran	13	Dibenzofuran	0.00397	Dibenzofuran	0.00011	Dibenzofuran	0.0002786
Diethyl phthalate	35	Diethyl phthalate	0.01068	Diethyl phthalate	0.00030	Diethyl phthalate	0.00075
Dimethyl phthalate	ND	Dimethyl phthalate		Dimethyl phthalate		Dimethyl phthalate	0
Di-N-butyl phthalate	2	Di-N-butyl phthalate	0.00061	Di-N-butyl phthalate	0.00002	Di-N-butyl phthalate	4.286E-05
Di-N-octyl phthalate	ND	Di-N-octyl phthalate		Di-N-octyl phthalate		Di-N-octyl phthalate	0
Fluoranthene	44.9	Fluoranthene	0.01370	Fluoranthene	0.00039	Fluoranthene	0.0009622
Fluorene	11.1	Fluorene	0.00339	Fluorene	0.00010	Fluorene	0.0002379
Hexachlorobenzene	ND	Hexachlorobenzene		Hexachlorobenzene		Hexachlorobenzene	0
Hexachlorobutadiene	ND	Hexachlorobutadiene		Hexachlorobutadiene		Hexachlorobutadiene	0
Hexachlorocyclopentadiene	ND	Hexachlorocyclopentadiene		Hexachlorocyclopentadiene		Hexachlorocyclopentadiene	0
Hexachloroethane	ND	Hexachloroethane		Hexachloroethane		Hexachloroethane	0
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene	0
Isophorone	ND	Isophorone		Isophorone		Isophorone	0
Naphthalene	47	Naphthalene	0.01434	Naphthalene	0.00041	Naphthalene	0.0010072
Nitrobenzene	ND	Nitrobenzene		Nitrobenzene		Nitrobenzene	0
N-Nitrosodimethylamine	ND	N-Nitrosodimethylamine		N-Nitrosodimethylamine		N-Nitrosodimethylamine	0
N-Nitroso-di-n-propylamine	ND	N-Nitroso-di-n-propylamine		N-Nitroso-di-n-propylamine		N-Nitroso-di-n-propylamine	0
N-Nitrosodiphenylamine	ND	N-Nitrosodiphenylamine		N-Nitrosodiphenylamine		N-Nitrosodiphenylamine	0
Pentachlorophenol	ND	Pentachlorophenol		Pentachlorophenol		Pentachlorophenol	0
Phenanthrene	67.1	Phenanthrene	0.02047	Phenanthrene	0.00058	Phenanthrene	0.0014379
Phenol	334	Phenol	0.10189	Phenol	0.00289	Phenol	0.0071575
Pyrene	28.3	Pyrene	0.00863	Pyrene	0.00024	Pyrene	0.0006065
Surrogate Recovery (%)		Surrogate Recovery (%)		Surrogate Recovery (%)		Surrogate Recovery (%)	
2,4,6-Tribromophenol		2,4,6-Tribromophenol		2,4,6-Tribromophenol		2,4,6-Tribromophenol	
2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)	
2-Fluorobiphenyl		2-Fluorobiphenyl		2-Fluorobiphenyl		2-Fluorobiphenyl	
2-Fluorophenol		2-Fluorophenol		2-Fluorophenol		2-Fluorophenol	
D10-Pyrene (FS)		D10-Pyrene (FS)		D10-Pyrene (FS)		D10-Pyrene (FS)	
D14-Terphenyl (FS)		D14-Terphenyl (FS)		D14-Terphenyl (FS)		D14-Terphenyl (FS)	
D5-Nitrobenzene		D5-Nitrobenzene		D5-Nitrobenzene		D5-Nitrobenzene	
D5-Phenol		D5-Phenol		D5-Phenol		D5-Phenol	

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	10	FILE:	
UNIT:	Direct Fired			START TIME:	22:05
DATE:	18-Dec-06		SVOCR3	END TIME:	02:35
LENGTH:	74.00	WIDTH:	26.00		240
As (SQFT)	13.36				
			K =	0.80	
		1 = ALL THE WAY IN	DEP P	SR RT	DEL H
Y =	0.9952	A1	1.2	1.10	0.96
		2	1	1.00	0.80
PITOT CO	0.84	3	0.92	0.96	0.73
		4	0.85	0.92	0.68
IMP-1 IN	200	5	0.75	0.87	0.60
IMP-2 IN	0	6	0.49	0.70	0.39
IMP-3 IN	0	B1	1.3	1.14	1.04
IMP-4 IN	253.6	2	1	1.00	0.80
		3	0.91	0.95	0.72
		4	0.8	0.89	0.64
		5	0.65	0.81	0.52
	49.86 %moisture	6	0.3	0.55	0.24
IMP-1FIN	2609	2409 C1	1.2	1.10	0.96
IMP-2FIN	0	0 2	1	1.00	0.80
IMP-3FIN	0	0 3	0.9	0.95	0.72
IMP-4FIN	295.8	42.2 4	0.87	0.93	0.69
		2451.2 5	0.75	0.87	0.60
		6	0.64	0.80	0.57
		D1	0.98	0.99	0.78
		2	1	1.00	0.80
		3	1.1	1.05	0.88
		4	1	1.00	0.80
		5	1	1.00	0.80
		6	0.5	0.71	0.40
Pstd	29.92				
Tstd	68				
% CO2	12.00	AVERAGE	0.880	0.928	0.705
% O2	8.00				
% CO	0.00				
% N2	80.00				
P BAR =	29.85		TS (°R) =	825.4	DELTA H (ABS) =
P STK =	-0.05				PS (ABS) =
FINAL METER =	325.326		TM (°R) =	526.9	V1 (TOT) =
LEAK CHK	0				
INT METER =	208.922				
VM (ACF) =	116.404				
VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)			
		(TM)			116.01 DSCF
VW STD =	0.4707 (V1 TOT)				115.38 CF
		VW (STD)			
BWO =					0.499
		VW STD + VM STD			49.86 % MOIST
1- BWO =		1 - BWO			0.501
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)				30.24 LBS/LB MOLE
Ms (wet) =		MD (1-BWO)			
		+ 18 (BWO)			
					24.14 LBS/LB MOLE
G =	SQRT (TS / PS / MS)				1.07
VS =	85.49(CP)(G)(SQRT DELTA P)avg				71.3395 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)				1097359.85 DSCFH
					18289 DSCFM
					57225 ACFM
					36479 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY: FBR METHOD: 10 FILE: 0
 UNIT: Direct Fired SVOCR3 START TIME: 22:05 TIME: 240
 DATE: 39069 END TIME: 02:35

As (SQFT) 4298.66
 Dn = 0.253
 An = 0.00035
 Y = 0.9952
 PITOT CO 0.84
 IMP-1 IN 200
 IMP-2 IN 0
 IMP-3 IN 0
 IMP-4 IN 253.6
 IMP-1FIN 2609
 IMP-2FIN 0
 IMP-3FIN 0
 IMP-4FIN 295.8
 Pstd 29.92
 Tstd 68
 % CO2 12
 % O2 8
 % CO 0
 % N2 80.00
 P BAR = 29.85
 P STK = -0.05

DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
A1	1.2	1.10	0.96	61	61 371
2	1	1.00	0.80	63	63 370
3	0.92	0.96	0.73	66	66 371
4	0.85	0.92	0.68	66	66 371
5	0.75	0.87	0.60	69	69 366
0 6	0.49	0.70	0.39	69	69 365
0 B1	1.3	1.14	1.04	65	65 368
2	1	1.00	0.80	65	65 368
3	0.91	0.95	0.72	65	65 366
4	0.8	0.89	0.64	65	65 367
5	0.65	0.81	0.52	65	65 363
6	0.3	0.55	0.24	65	65 370
C1	1.2	1.10	0.96	65	65 367
2	1	1.00	0.80	65	65 367
3	0.9	0.95	0.72	65	65 366
4	0.87	0.93	0.69	65	65 366
5	0.75	0.87	0.60	66	66 365
6	0.64	0.80	0.57	67	67 340
D1	0.98	0.99	0.78	69	69 358
2	1	1.00	0.80	70	70 360
3	1.1	1.05	0.88	71	71 366
4	1	1.00	0.80	72	72 367
5	1	1.00	0.80	73	73 367
6	0.5	0.71	0.40	74	74 365

AVERAGE 0.880 0.928 0.705 66.917 66.917 365.417

TS (R) = 825.4 DELTA H (ABS) = 29.90
 TM (F) = 66.9 PS (ABS) = 29.85
 TM (R) = 526.9 V1 (TOT) = 2451.2
 FINAL METER = 325.326
 LEAK CHK 0
 INT METER = 208.922
 VM (ACF) = 116.404

VM STD = (Tstd/Pstd) $\frac{(VM)(Y)(DELTA H ABS)}{(TM)}$ = 116.01 DSCF

VW STD = 0.4707 (V1 TOT) = 115.38 CF

BWO = $\frac{VW (STD)}{VW STD + VM STD}$ = 0.499
 49.86

1- BWO = 1 - BWO = 0.501

Md(dry) = .44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2) = 30.24 LBS/LB MOLE

Ms (wet) = MD (1-BWO) + 18 (BWO) = 24.14 LBS/LB MOLE

G = SQRT (TS / PS / MS) = 1.07

VS = 85.49(CP)(G)(SQRT DELTA P) = 71.34 FPS

H = .002669 (V1 TOT) = 6.54

J = (DELTA H ABS) (VM) (Y)/(TM) = 6.57

K = (H) + (J) = 13.12

% ISO = (TS) (K) (1.667) = 101.2 %
 (TIME) (VS) (PS) (AN)

SVOC Catches in Micrograms		SVOC Concentration mg/m3		SVOC Concentration mg/dscf		SVOC Emissions lbs/hr	
1,2,4-Trichlorobenzene	ND	1,2,4-Trichlorobenzene		1,2,4-Trichlorobenzene		1,2,4-Trichlorobenzene	0
1,2-Dichlorobenzene	ND	1,2-Dichlorobenzene		1,2-Dichlorobenzene		1,2-Dichlorobenzene	0
1,3-Dichlorobenzene	ND	1,3-Dichlorobenzene		1,3-Dichlorobenzene		1,3-Dichlorobenzene	0
1,4-Dichlorobenzene	ND	1,4-Dichlorobenzene		1,4-Dichlorobenzene		1,4-Dichlorobenzene	0
1-Chloronaphthalene	ND	1-Chloronaphthalene		1-Chloronaphthalene		1-Chloronaphthalene	0
2,4,5-Trichlorophenol	ND	2,4,5-Trichlorophenol		2,4,5-Trichlorophenol		2,4,5-Trichlorophenol	0
2,4,6-Trichlorophenol	ND	2,4,6-Trichlorophenol		2,4,6-Trichlorophenol		2,4,6-Trichlorophenol	0
2,4-Dichlorophenol	ND	2,4-Dichlorophenol		2,4-Dichlorophenol		2,4-Dichlorophenol	0
2,4-Dimethylphenol	7	2,4-Dimethylphenol	0.00213	2,4-Dimethylphenol	0.00006	2,4-Dimethylphenol	0.000146
2,4-Dinitrophenol	ND	2,4-Dinitrophenol		2,4-Dinitrophenol		2,4-Dinitrophenol	0
2,4-Dinitrotoluene	ND	2,4-Dinitrotoluene		2,4-Dinitrotoluene		2,4-Dinitrotoluene	0
2,6-Dinitrotoluene	ND	2,6-Dinitrotoluene		2,6-Dinitrotoluene		2,6-Dinitrotoluene	0
2-Chloronaphthalene	ND	2-Chloronaphthalene		2-Chloronaphthalene		2-Chloronaphthalene	0
2-Chlorophenol	ND	2-Chlorophenol		2-Chlorophenol		2-Chlorophenol	0
2-Methylnaphthalene	12	2-Methylnaphthalene	0.00365	2-Methylnaphthalene	0.00010	2-Methylnaphthalene	0.0002502
2-Methylphenol	20	2-Methylphenol	0.00609	2-Methylphenol	0.00017	2-Methylphenol	0.0004171
2-Nitroaniline	ND	2-Nitroaniline		2-Nitroaniline		2-Nitroaniline	0
2-Nitrophenol	ND	2-Nitrophenol		2-Nitrophenol		2-Nitrophenol	0
3 & 4-methylphenol	47	3 & 4-methylphenol	0.01431	3 & 4-methylphenol	0.00041	3 & 4-methylphenol	0.0009801
3,3'-Dichlorobenzidine	ND	3,3'-Dichlorobenzidine		3,3'-Dichlorobenzidine		3,3'-Dichlorobenzidine	0
3-Nitroaniline	ND	3-Nitroaniline		3-Nitroaniline		3-Nitroaniline	0
4,6-Dinitro-2-methylphenol	ND	4,6-Dinitro-2-methylphenol		4,6-Dinitro-2-methylphenol		4,6-Dinitro-2-methylphenol	0
4-Bromophenyl phenyl ether	ND	4-Bromophenyl phenyl ether		4-Bromophenyl phenyl ether		4-Bromophenyl phenyl ether	0
4-Chloro-3-Methylphenol	ND	4-Chloro-3-Methylphenol		4-Chloro-3-Methylphenol		4-Chloro-3-Methylphenol	0
4-Chloroaniline	ND	4-Chloroaniline		4-Chloroaniline		4-Chloroaniline	0
4-Chlorophenyl phenyl ether	ND	4-Chlorophenyl phenyl ether		4-Chlorophenyl phenyl ether		4-Chlorophenyl phenyl ether	0
4-Nitroaniline	ND	4-Nitroaniline		4-Nitroaniline		4-Nitroaniline	0
4-Nitrophenol	ND	4-Nitrophenol		4-Nitrophenol		4-Nitrophenol	0
Acenaphthene	ND	Acenaphthene		Acenaphthene		Acenaphthene	0
Acenaphthylene	1	Acenaphthylene	0.00030	Acenaphthylene	0.00001	Acenaphthylene	2.085E-05
Aniline	ND	Aniline		Aniline		Aniline	0
Anthracene	0.8	Anthracene	0.00024	Anthracene	0.00001	Anthracene	1.668E-05
Benzidine	ND	Benzidine		Benzidine		Benzidine	0
Benzo(a)anthracene	ND	Benzo(a)anthracene		Benzo(a)anthracene		Benzo(a)anthracene	0
Benzo(a)pyrene	ND	Benzo(a)pyrene		Benzo(a)pyrene		Benzo(a)pyrene	0
Benzo(b)fluoranthene	ND	Benzo(b)fluoranthene		Benzo(b)fluoranthene		Benzo(b)fluoranthene	0
Benzo(g,h,i)perylene	ND	Benzo(g,h,i)perylene		Benzo(g,h,i)perylene		Benzo(g,h,i)perylene	0
Benzo(k)fluoranthene	ND	Benzo(k)fluoranthene		Benzo(k)fluoranthene		Benzo(k)fluoranthene	0
Benzoic Acid	126	Benzoic Acid	0.03836	Benzoic Acid	0.00109	Benzoic Acid	0.0026276
Benzyl Alcohol	ND	Benzyl Alcohol		Benzyl Alcohol		Benzyl Alcohol	0
Benzyl butyl phthalate	ND	Benzyl butyl phthalate		Benzyl butyl phthalate		Benzyl butyl phthalate	0
Biphenyl	8	Biphenyl	0.00244	Biphenyl	0.00007	Biphenyl	0.0001668
Bis(2-chloroethoxy)methane	ND	Bis(2-chloroethoxy)methane		Bis(2-chloroethoxy)methane		Bis(2-chloroethoxy)methane	0
Bis(2-chloroethyl)ether	ND	Bis(2-chloroethyl)ether		Bis(2-chloroethyl)ether		Bis(2-chloroethyl)ether	0
Bis(2-chloroisopropyl)ether	ND	Bis(2-chloroisopropyl)ether		Bis(2-chloroisopropyl)ether		Bis(2-chloroisopropyl)ether	0
Bis(2-ethylhexyl)phthalate	15	Bis(2-ethylhexyl)phthalate	0.00457	Bis(2-ethylhexyl)phthalate	0.00013	Bis(2-ethylhexyl)phthalate	0.0003128
Carbazole	ND	Carbazole		Carbazole		Carbazole	0
Chrysene	ND	Chrysene		Chrysene		Chrysene	0
Dibenzo(a,h)anthracene	ND	Dibenzo(a,h)anthracene		Dibenzo(a,h)anthracene		Dibenzo(a,h)anthracene	0
Dibenzofuran	ND	Dibenzofuran		Dibenzofuran		Dibenzofuran	0
Diethyl phthalate	20	Diethyl phthalate	0.00609	Diethyl phthalate	0.00017	Diethyl phthalate	0.0004171
Dimethyl phthalate	ND	Dimethyl phthalate		Dimethyl phthalate		Dimethyl phthalate	0
Di-N-butyl phthalate	ND	Di-N-butyl phthalate		Di-N-butyl phthalate		Di-N-butyl phthalate	0
Di-N-octyl phthalate	ND	Di-N-octyl phthalate		Di-N-octyl phthalate		Di-N-octyl phthalate	0
Fluoranthene	2.3	Fluoranthene	0.00070	Fluoranthene	0.00002	Fluoranthene	4.796E-05
Fluorene	1	Fluorene	0.00030	Fluorene	0.00001	Fluorene	2.085E-05
Hexachlorobenzene	ND	Hexachlorobenzene		Hexachlorobenzene		Hexachlorobenzene	0
Hexachlorobutadiene	ND	Hexachlorobutadiene		Hexachlorobutadiene		Hexachlorobutadiene	0
Hexachlorocyclopentadiene	ND	Hexachlorocyclopentadiene		Hexachlorocyclopentadiene		Hexachlorocyclopentadiene	0
Hexachloroethane	ND	Hexachloroethane		Hexachloroethane		Hexachloroethane	0
Indeno(1,2,3-cd)pyrene	ND	Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene		Indeno(1,2,3-cd)pyrene	0
Isophorone	ND	Isophorone		Isophorone		Isophorone	0
Naphthalene	26	Naphthalene	0.00791	Naphthalene	0.00022	Naphthalene	0.0005422
Nitrobenzene	ND	Nitrobenzene		Nitrobenzene		Nitrobenzene	0
N-Nitrosodimethylamine	ND	N-Nitrosodimethylamine		N-Nitrosodimethylamine		N-Nitrosodimethylamine	0
N-Nitroso-di-n-propylamine	ND	N-Nitroso-di-n-propylamine		N-Nitroso-di-n-propylamine		N-Nitroso-di-n-propylamine	0
N-Nitrosodiphenylamine	ND	N-Nitrosodiphenylamine		N-Nitrosodiphenylamine		N-Nitrosodiphenylamine	0
Pentachlorophenol	ND	Pentachlorophenol		Pentachlorophenol		Pentachlorophenol	0
Phenanthrene	6.8	Phenanthrene	0.00207	Phenanthrene	0.00006	Phenanthrene	0.0001418
Phenol	134	Phenol	0.04079	Phenol	0.00116	Phenol	0.0027944
Pyrene	1.2	Pyrene	0.00037	Pyrene	0.00001	Pyrene	2.502E-05
Surrogate Recovery (%)		Surrogate Recovery (%)		Surrogate Recovery (%)		Surrogate Recovery (%)	
2,4,6-Tribromophenol		2,4,6-Tribromophenol		2,4,6-Tribromophenol		2,4,6-Tribromophenol	
2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)		2,6-Dibromo-4-fluorophenol (FS)	
2-Fluorobiphenyl		2-Fluorobiphenyl		2-Fluorobiphenyl		2-Fluorobiphenyl	
2-Fluorophenol		2-Fluorophenol		2-Fluorophenol		2-Fluorophenol	
D10-Pyrene (FS)		D10-Pyrene (FS)		D10-Pyrene (FS)		D10-Pyrene (FS)	
D14-Terphenyl (FS)		D14-Terphenyl (FS)		D14-Terphenyl (FS)		D14-Terphenyl (FS)	
D5-Nitrobenzene		D5-Nitrobenzene		D5-Nitrobenzene		D5-Nitrobenzene	
D5-Phenol		D5-Phenol		D5-Phenol		D5-Phenol	

Facility FBR Method M0030
 Unit "Direct Fired" Run ID M0030R1
 Date 08-Feb-07
 Start Time 10:20 Run Time 120 minutes
 Stop Time 12:30

Tube Set 1			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		74
Pbar "Hg	29.7		56
Yd	0.9987		57
			58
DGMi	4435.54	Average Meter Temp.	59
DGMf	4477.11		60.8
	41.57		
Sample Volume			
Liters 41.78079			

Tube Set 2			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		60
Pbar "Hg	29.7		65
Yd	0.9987		61
			63
DGMi	4479.77	Average Meter Temp.	64
DGMf	4519.79		62.6
	40.02		
Sample Volume			
Liters 40.0843			

Tube Set 3			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		67
Pbar "Hg	29.7		64
Yd	0.9987		65
			63
DGMi	4520.59	Average Meter Temp.	63
DGMf	4564.11		64.4
	43.52		
Sample Volume			
Liters 43.44021			

	Tube Set 1		Tube Set 2		Tube Set 3		Averages	
	ug	mg/m3	ug	mg/m3	ug	mg/m3	ug	mg/m3
Dichlorodifluoromethane (FREON 12)	0.17	0.004043	0	0	0	0	0.056667	0.001348
Chloromethane	0.09	0.00214	0.4	0.009916	0	0	0.163333	0.004019
Vinyl Chloride	0	0	0	0	0	0	0	0
Bromomethane	0.03	0.000713	0	0	0	0	0.01	0.000238
Chloroethane	0	0	0	0	0	0	0	0
Trichlorofluoromethane (FREON 11)	0.05	0.001189	0	0	0	0	0.016667	0.000396
Acetone (2-Propanone)	3.53	0.083952	5.3	0.131381	3.7	0.084633	4.176667	0.099989
1,1-Dichloroethylene	0	0	0	0	0	0	0	0
Iodomethane	0	0	0	0	0	0	0	0
Carbon Disulfide	0.06	0.001427	0	0	0	0	0.02	0.000476
Methylene Chloride(Dichloromethane)	13.3	0.316305	0.5	0.012394	0	0	4.6	0.109566
1,1-Dichloroethane	0	0	0	0	0	0	0	0
Vinyl Acetate	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethylene	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethylene	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0
Methyl Ethyl Ketone (2-Butanone)	1.94	0.046138	1.1	0.027268	0.9	0.020586	1.313333	0.031331
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0
Carbon Tetrachloride	0	0	0	0	0	0	0	0
Benzene	6.35	0.151018	11.2	0.277635	8.4	0.19214	8.65	0.206931
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0
Trichloroethylene	0	0	0	0	0	0	0	0
Dibromomethane	0	0	0	0	0	0	0	0
Bromodichloromethane	0.04	0.000951	0	0	0	0	0.013333	0.000317
cis-1,3-Dichloropropene	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	0	0	0	0	0	0	0	0
Dibromochloromethane	0.064	0.001522	0	0	0	0	0.021333	0.000507
Methyl Isobutyl Ketone	0.09	0.00214	0	0	0	0	0.03	0.000713
Toluene	1.35	0.032106	3.6	0.08924	2.6	0.059472	2.516667	0.060273
Ethylene Dibromide	0	0	0	0	0	0	0	0
Tetrachloroethylene	0	0	0	0	0	0	0	0
Chlorobenzene	0.08	0.001903	0	0	0	0	0.026667	0.000634
1,1,1,2-Tetrachloroethane	0	0	0	0	0	0	0	0
Ethylbenzene	0.59	0.014032	0.8	0.019831	0.6	0.013724	0.663333	0.015862
m / p-Xylene	1.05	0.024971	2	0.049578	1.5	0.034311	1.516667	0.036287
Styrene	0.72	0.017123	1.2	0.029747	0.9	0.020586	0.94	0.022485
o-Xylene	0.48	0.011416	0.7	0.017352	0.5	0.011437	0.56	0.013402
Bromoform	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0
1,2,3-Trichloropropane	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0
Total	0.713089		Total	0.664341	Total	0.43689	Total	0.604773

Facility FBR Method M0030
 Unit "Direct Fired" Run ID M0030R2
 Date 08-Feb-07
 Start Time 17:00 Run Time 120 minutes
 Stop Time 19:45

Tube Set 1			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		65
Pbar "Hg	29.7		74
Yd	0.9987		58
			72
DGMi	4564.59		75
DGMf	4608.38	Average Meter Temp.	68.8
	43.79		
Sample Volume			
Liters		43.34579	

Tube Set 2			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		54
Pbar "Hg	29.7		51
Yd	0.9987		52
			52
DGMi	4609.11		52
DGMf	4657.5	Average Meter Temp.	52.2
	48.39		
Sample Volume			
Liters	49.4525		

Tube Set 3			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		51
Pbar "Hg	29.7		51
Yd	0.9987		55
			62
DGMi	4658.4		68
DGMf	4704.1	Average Meter Temp.	57.4
	45.7		
Sample Volume			
Liters		46.23376	

	Tube Set 1		Tube Set 2		Tube Set 3		Averages	
	ug	mg/m3	ug	mg/m3	ug	mg/m3	ug	mg/m3
Dichlorodifluoromethane (FREON 12)	0	0	0	0	0	0	0	0
Chloromethane	0.4	0.009169	0	0	0	0	0.133333	0.003056
Vinyl Chloride	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0
Chloroethane	0	0	0	0	0	0	0	0
Trichlorofluoromethane (FREON 11)	0	0	0	0	0	0	0	0
Acetone (2-Propanone)	3.6	0.082525	3.8	0.076353	3.5	0.075221	3.633333	0.078033
1,1-Dichloroethylene	0	0	0	0	0	0	0	0
Iodomethane	0.4	0.009169	0	0	0	0	0.133333	0.003056
Carbon Disulfide	0	0	0	0	0	0	0	0
Methylene Chloride(Dichloromethane)	0.7	0.016047	8.6	0.172799	0	0	3.1	0.062948
1,1-Dichloroethane	0	0	0	0	0	0	0	0
Vinyl Acetate	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethylene	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethylene	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0
Methyl Ethyl Ketone (2-Butanone)	0	0	0.8	0.016074	1.4	0.030088	0.733333	0.015388
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0
Carbon Tetrachloride	0	0	0	0	0	0	0	0
Benzene	7.3	0.167343	6.8	0.136632	9.8	0.210619	7.966667	0.171531
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0
Trichloroethylene	0	0	0	0	0	0	0	0
Dibromomethane	0	0	0	0	0	0	0	0
Bromodichloromethane	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	0	0	0	0	0	0	0	0
Dibromochloromethane	0	0	0	0	0	0	0	0
Methyl Isobutyl Ketone	0	0	0	0	0	0	0	0
Toluene	2.4	0.055017	3.3	0.066307	2.5	0.053729	2.733333	0.058351
Ethylene Dibromide	0	0	0	0	0	0	0	0
Tetrachloroethylene	0	0	0	0	0	0	0	0
Chlorobenzene	0	0	0	0	0	0	0	0
1,1,1,2-Tetrachloroethane	0	0	0	0	0	0	0	0
Ethylbenzene	0.6	0.013754	0.4	0.008037	0.7	0.015044	0.566667	0.012279
m / p-Xylene	1.3	0.029801	0.9	0.018084	1.7	0.036536	1.3	0.02814
Styrene	0.8	0.018339	0.5	0.010046	1	0.021492	0.766667	0.016626
o-Xylene	0.5	0.011462	0.4	0.008037	0.7	0.015044	0.533333	0.011514
Bromoform	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0
1,2,3-Trichloropropane	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0
Total	0.412626		Total	0.512369	Total	0.457774	Total	0.460923

Facility FBR Method M0030
 Unit "Direct Fired" Run ID M0030R3
 Date 18-Dec-06
 Start Time 22:07 Run Time 120 minutes
 Stop Time 01:16

Tube Set 1			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		67
Pbar "Hg	29.7		68
Yd	0.9987		71
			74
DGMi	4704.12	Average Meter Temp.	76
DGMf	4775.59		71.2
	71.47		
Sample Volume			
Liters 70.42517			

Tube Set 2			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		74
Pbar "Hg	29.7		75
Yd	0.9987		76
			77
DGMi	4775.59	Average Meter Temp.	77
DGMf	4847.01		75.8
	71.42		
Sample Volume			
Liters 69.77133			

Tube Set 3			
Pstd "Hg	29.92	Meter Temp. F	
Tstd F	68		74
Pbar "Hg	29.7		74
Yd	0.9987		75
			76
DGMi	4847.3	Average Meter Temp.	78
DGMf	4916.01		75.4
	68.71		
Sample Volume			
Liters 67.17407			

	Tube Set 1		Tube Set 2		Tube Set 3		Averages	
	ug	mg/m3	ug	mg/m3	ug	mg/m3	ug	mg/m3
Dichlorodifluoromethane (FREON 12)	0	0	0	0	0	0	0	0
Chloromethane	0	0	0	0	0.5	0.007396	0.166667	0.002465
Vinyl Chloride	0	0	0	0	0	0	0	0
Bromomethane	0	0	0	0	0	0	0	0
Chloroethane	0	0	0	0	0	0	0	0
Trichlorofluoromethane (FREON 11)	0	0	0	0	0	0	0	0
Acetone (2-Propanone)	2.9	0.040917	5	0.071207	7.5	0.110941	5.133333	0.074355
1,1-Dichloroethylene	0	0	0	0	0	0	0	0
Iodomethane	0	0	0	0	0	0	0	0
Carbon Disulfide	0	0	0	0	2.3	0.034022	0.766667	0.011341
Methylene Chloride(Dichloromethane)	3	0.042328	3.7	0.052693	75.5	1.116801	27.4	0.403941
1,1-Dichloroethane	0	0	0	0	0	0	0	0
Vinyl Acetate	0	0	0	0	0	0	0	0
trans-1,2-Dichloroethylene	0	0	0	0	0	0	0	0
cis-1,2-Dichloroethylene	0	0	0	0	0	0	0	0
Chloroform	0	0	0	0	0	0	0	0
1,2-Dichloroethane	0	0	0	0	0	0	0	0
Methyl Ethyl Ketone (2-Butanone)	0.8	0.011287	1	0.014241	0	0	0.6	0.00851
1,1,1-Trichloroethane	0	0	0	0	0	0	0	0
Carbon Tetrachloride	0	0	0	0	0	0	0	0
Benzene	8.7	0.12275	10.4	0.148111	13.3	0.196734	10.8	0.155865
1,1,2-Trichloroethane	0	0	0	0	0	0	0	0
1,2-Dichloropropane	0	0	0	0	0	0	0	0
Trichloroethylene	0	0	0	0	0	0	0	0
Dibromomethane	0	0	0	0	0	0	0	0
Bromodichloromethane	0	0	0	0	0	0	0	0
cis-1,3-Dichloropropene	0	0	0	0	0	0	0	0
trans-1,3-Dichloropropene	0	0	0	0	0	0	0	0
Dibromochloromethane	0	0	0	0	0	0	0	0
Methyl Isobutyl Ketone	0	0	0	0	0	0	0	0
Toluene	3.7	0.052204	3.5	0.049845	3	0.044376	3.4	0.048808
Ethylene Dibromide	0	0	0	0	0	0	0	0
Tetrachloroethylene	0	0	0	0	0	0	0	0
Chlorobenzene	0	0	0	0	0	0	0	0
1,1,1,2-Tetrachloroethane	0	0	0	0	0	0	0	0
Ethylbenzene	0.8	0.011287	0.6	0.008545	0.6	0.008875	0.666667	0.009569
m / p-Xylene	2	0.028218	2	0.028483	1.9	0.028105	1.966667	0.028269
Styrene	1	0.014109	0.7	0.009969	0.5	0.007396	0.733333	0.010491
o-Xylene	0.8	0.011287	0.8	0.011393	0.7	0.010354	0.766667	0.011012
Bromoform	0	0	0	0	0	0	0	0
1,1,2,2-Tetrachloroethane	0	0	0	0	0	0	0	0
1,2,3-Trichloropropane	0	0	0	0	0	0	0	0
1,3-Dichlorobenzene	0	0	0	0	0	0	0	0
1,4-Dichlorobenzene	0	0	0	0	0	0	0	0
1,2-Dichlorobenzene	0	0	0	0	0	0	0	0
Total	0.334388		Total	0.394488	Total	1.565001	Total	0.764626

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	M26A	FILE:	
UNIT:	Direct Fired			START TIME:	13:05 TIME:
DATE:	09-Feb-07		HCL R1	END TIME:	14:25 60
LENGTH:	74.00	WIDTH:	26.00		
As (SQFT)	13.36				

As (SQFT)	13.36			K =	15.40				
		1 = ALL THE WAY IN		DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	0.9952	A1	0.96	0.98	0.77	51	51	364	
		2	1	1.00	0.80	51	51	368	
PITOT CO	0.84	3	0.97	0.98	0.77	52	52	366	
		4	1	1.00	0.80	52	52	366	
IMP-1 IN	100	5	1	1.00	0.80	52	52	367	
IMP-2 IN	100	6	0.8	0.89	0.64	52	52	369	
IMP-3 IN	0	B1	1.2	1.10	0.96	53	53	371	
IMP-4 IN	242.5	2	1	1.00	0.80	54	54	374	
		3	0.92	0.96	0.72	54	54	374	
		4	0.8	0.89	0.64	55	55	373	
		5	0.7	0.84	0.56	55	55	374	
	49.03 %moisture	6	0.64	0.80	0.51	56	56	374	
IMP-1FIN	570	470 C1	1.3	1.14	1.04	56	56	371	
IMP-2FIN	225	125 2	1	1.00	0.80	56	56	369	
IMP-3FIN	0	0 3	0.9	0.95	0.72	56	56	371	
IMP-4FIN	257.6	15.1 4	0.8	0.89	0.64	56	56	371	
		610.1 5	0.6	0.77	0.48	56	56	372	
		6	0.3	0.55	0.24	56	56	373	
		D1	1.3	1.14	1.04	55	55	373	
		2	1	1.00	0.80	56	56	373	
		3	0.9	0.95	0.72	56	56	372	
		4	0.84	0.92	0.67	55	55	370	
		5	0.75	0.87	0.60	56	56	370	
		6	0.5	0.71	0.40	56	56	372	

Pstd	29.92							
Tstd	68							
% CO2	5.79	AVERAGE	0.883	0.930	0.705	54.458	54.458	370.708
% O2	9.89		0.866 ENTROPY VALUE					
% CO	0.00							
% N2	84.32							
P BAR =	29.9		TS (R) =	830.7		DELTA H (ABS) =		29.95
P STK =	-0.05					PS (ABS) =		29.90

FINAL METER =	355.268	TM (R) =	514.5	V1 (TOT) =	610.10
LEAK CHK	0				
INT METER =	326.068				
VM (ACF) =	29.2				

VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)	=	29.86 DSCF
		(TM)		
VW STD =	0.4707 (VI TOT)		=	28.72 CF
		VW (STD)		
BWO =			=	0.490
		VW STD + VM STD		49.03 % MOIST
1- BWO =	1 - BWO		=	0.510
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		=	29.322 LBS/LB MOLE
Ms (wet) =	MD (1-BWO) + 18 (BWO)		=	23.77 LBS/LB MOLE
G =	SQRT (TS / PS / MS)		=	1.08
VS =	85.49(CP)(G)(SQRT DELTA P)avg		=	72.2341 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)		=	1124313.111 DSCFH 18739 DSCFM 57943 ACFM 36762 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M26A	FILE:	0			
UNIT:	Direct Fired		HCL R1	START TIME:			13:05	TIME:
DATE:	39122			END TIME:			14:25	60
Ds =	74.00							
As (SQFT)	4298.66							
Dn =	0.253							
An =	0.00035	A1	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	0.9952	2		0.96	0.98	0.77	51	51 364
PITOT CO	0.84	3		1	1.00	0.80	51	51 368
		4		0.97	0.98	0.77	52	52 366
		5		1	1.00	0.80	52	52 366
IMP-1 IN	100	6		0.8	0.89	0.64	52	52 367
IMP-2 IN	100	0 B1		1.2	1.10	0.96	53	53 369
IMP-3 IN	0	2		1	1.00	0.80	54	54 371
IMP-4 IN	242.5	3		0.92	0.96	0.72	54	54 374
		4		0.8	0.89	0.64	55	55 374
IMP-1FIN	570	5		0.7	0.84	0.56	55	55 373
IMP-2FIN	225	6		0.64	0.80	0.51	56	56 374
IMP-3FIN	0	C1		1.3	1.14	1.04	56	56 374
IMP-4FIN	257.6	2		1	1.00	0.80	56	56 371
		3		0.9	0.95	0.72	56	56 369
		4		0.8	0.89	0.64	56	56 371
		5		0.6	0.77	0.48	56	56 371
		6		0.3	0.55	0.24	56	56 372
		D1		1.3	1.14	1.04	55	55 373
		2		1	1.00	0.80	56	56 373
		3		0.9	0.95	0.72	56	56 370
		4		0.84	0.92	0.67	55	55 370
		5		0.75	0.87	0.60	56	56 370
		6		0.5	0.71	0.40	56	372
Pstd	29.92							
Tstd	68							
% CO2	5.79							
% O2	9.89	AVERAGE	0.883	0.930	0.705	54.458	54.458	370.708
% CO	0							
% N2	84.32							
P BAR =	29.9							
P STK =	-0.05							
			TS (°R) =	830.7		DELTA H (ABS) =		29.95
FINAL METER =	355.268		TM (°F) =	54.5		PS (ABS) =		29.90
LEAK CHK	0		TM (°R) =	514.5		V1 (TOT) =		610.1
INT METER =	326.068							
VM (ACF) =	29.2							
		(VM)(Y)(DELTA H ABS)						
VM STD =	(Tstd/Pstd)					29.86	DSCF	
		(TM)						
VW STD =	0.4707 (V1 TOT)					28.72	CF	
		VW (STD)						
BWO =						0.490		
		VW STD + VM STD				49.03		
1- BWO =		1 - BWO				0.510		
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)					29.322	LBS/LB MOLE	
Ms (wet) =		MD (1-BWO)						
		+ 18 (BWO)						
						23.77	LBS/LB MOLE	
G =	SQRT (TS / PS / MS)					1.08		
VS =	85.49(CP)(G)(SQRT DELTA P)					72.23	FPS	
H =	.002669 (V1 TOT)					1.63		
J =	(DELTA H ABS) (VM) (Y)/(TM)					1.69		
K =	(H) + (J)					3.32		
% ISO =	(TS) (K) (1.667)							
						101.7	%	
		(TIME) (VS) (PS) (AN)						

Hydrogen Chloride Catches in Micrograms		Hydrogen Chloride Concentration mg/m3		Hydrogen Chloride Concentration mg/dscf		Hydrogen Chloride Emissions lbs/hr	
Hydrogen Chloride	1500	Hydrogen Chloride	1.77424	Hydrogen Chloride	0.05024	Hydrogen Chloride	0.1245316

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	M26A	FILE:	
UNIT:	Direct Fired			START TIME:	15:50 TIME: 60
DATE:	09-Feb-07		HCL R2	END TIME:	17:05
LENGTH:	74.00	WIDTH:	26.00		
As (SQFT)	13.36				

		1 = ALL THE WAY IN	DEP P	K =	0.80					
			SR RT			DEL H	DGM IN	DGM OUT	ST TEMP	
Y =	0.9952	A1	1.3	1.14	1.04	69	69	69	371	
		2	1	1.00	0.80	69	69	69	370	
PITOT CO	0.84	3	1.2	1.10	0.96	70	70	70	373	
		4	0.9	0.95	0.72	70	70	70	371	
IMP-1 IN	100	5	0.79	0.89	0.63	72	72	72	374	
IMP-2 IN	100	6	0.5	0.71	0.40	70	70	70	374	
IMP-3 IN	0	B1	1.1	1.05	0.88	70	70	70	374	
IMP-4 IN	236.6	2	1	1.00	0.80	69	69	69	372	
		3	0.92	0.96	0.73	68	68	68	372	
		4	0.8	0.89	0.64	68	68	68	373	
		5	0.64	0.80	0.51	68	68	68	373	
	48.62 %moisture	6	0.3	0.55	0.24	67	67	67	372	
IMP-1FIN	525	425 C1	1.2	1.10	0.96	66	66	66	372	
IMP-2FIN	245	145 2	1	1.00	0.80	66	66	66	372	
IMP-3FIN	0	0 3	0.9	0.95	0.72	66	66	66	370	
IMP-4FIN	251.8	15.2 4	0.8	0.89	0.64	66	66	66	370	
		585.2 5	0.68	0.82	0.54	66	66	66	370	
		6	0.35	0.59	0.28	66	66	66	372	
		D1	1	1.00	0.80	66	66	66	373	
		2	1	1.00	0.80	66	66	66	372	
		3	0.96	0.98	0.76	66	66	66	373	
		4	0.98	0.99	0.78	67	67	67	372	
		5	1	1.00	0.80	66	66	66	372	
		6	0.8	0.89	0.64	67	67	67	374	

Pstd	29.92								
Tstd	68								
% CO2	7.49	AVERAGE	0.880	0.927	0.703	67.667	67.667	372.125	
% O2	9.41		0.859 ENTROPY VALUE						
% CO	0.00								
% N2	83.10								
P BAR =	29.9		TS (°R) =	832.1		DELTA H (ABS) =		29.95	
P STK =	-0.05					PS (ABS) =		29.90	

FINAL METER =	384.673	TM (°R) =	527.7	V1 (TOT) =	585.20
LEAK CHK	0				
INT METER =	355.474				
VM (ACF) =	29.199				

VM STD =	(VM)(Y)(DELTA H ABS)	=	29.11 DSCF
	(Tstd/Pstd) -----		
	(TM)		
VW STD =	0.4707 (VI TOT)	=	27.55 CF
	VW (STD)		
BWO =	-----	=	0.486
	VW STD + VM STD		48.62 % MOIST
1- BWO =	1 - BWO	=	0.514
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)	=	29.5748 LBS/LB MOLE
Ms (wet) =	MD (1-BWO)		
	+ 18 (BWO)		
	-----	=	23.95 LBS/LB MOLE
G =	SQRT (TS / PS / MS)	=	1.08
VS =	85.49(CP)(G)(SQRT DELTA P)avg	=	71.7728 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)	=	1124130.87 DSCFH
			18736 DSCFM
			57572 ACFM
			36465 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M26A	FILE:	0		
UNIT:	Direct Fired		HCL R2	START TIME:		15:50 TIME: 60	
DATE:	39122			END TIME:		17:05 60	
Ds =	74.00						
As (SQFT)	4298.66						
Dn =	0.253	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
An =	0.00035	A1	1.3	1.14	1.04	69	69 371
Y =	0.9952	2	1	1.00	0.80	69	69 370
PITOT CO	0.84	3	1.2	1.10	0.96	70	70 373
		4	0.9	0.95	0.72	70	70 371
IMP-1 IN	100	5	0.79	0.89	0.63	72	72 374
IMP-2 IN	100	0 6	0.5	0.71	0.40	70	70 374
IMP-3 IN	0	0 B1	1.1	1.05	0.88	70	70 374
IMP-4 IN	236.6	2	1	1.00	0.80	69	69 372
		3	0.92	0.96	0.73	68	68 372
IMP-1FIN	525	4	0.8	0.89	0.64	68	68 373
IMP-2FIN	245	5	0.64	0.80	0.51	68	68 373
IMP-3FIN	0	6	0.3	0.55	0.24	67	67 372
IMP-4FIN	251.8	C1	1.2	1.10	0.96	66	66 372
		2	1	1.00	0.80	66	66 372
		3	0.9	0.95	0.72	66	66 370
		4	0.8	0.89	0.64	66	66 370
		5	0.68	0.82	0.54	66	66 370
		6	0.35	0.59	0.28	66	66 372
		D1	1	1.00	0.80	66	66 373
		2	1	1.00	0.80	66	66 372
		3	0.96	0.98	0.76	66	66 373
		4	0.98	0.99	0.78	67	67 372
		5	1	1.00	0.80	66	66 372
		6	0.8	0.89	0.64	67	67 374
Pstd	29.92						
Tstd	68						
% CO2	7.49						
% O2	9.41	AVERAGE	0.880	0.927	0.703	67.667	67.667 372.125
% CO	0						
% N2	83.10						
P BAR =	29.9						
P STK =	-0.05						
		TS ('R) =	832.1	DELTA H (ABS) =		29.95	
FINAL METER =	384.673	TM ('F) =	67.7	PS (ABS) =		29.90	
LEAK CHK	0	TM ('R) =	527.7	V1 (TOT) =		585.2	
INT METER =	355.474						
VM (ACF) =	29.199						
		(VM)(Y)(DELTA H ABS)					
VM STD =	(Tstd/Pstd)	-----	=		29.11	DSCF	
		(TM)					
VW STD =	0.4707 (V1 TOT)		=		27.55	CF	
		VW (STD)					
BWO =	-----		=		0.486		
	VW STD + VM STD				48.62		
1- BWO =	1 - BWO		=		0.514		
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		=		29.5748	LBS/LB MOLE	
Ms (wet) =	MD (1-BWO) + 18 (BWO)		=		23.95	LBS/LB MOLE	

G =	SQRT (TS / PS / MS)		=		1.08		
VS =	85.49(CP)(G)(SQRT DELTA P)		=		71.77	FPS	
H =	.002669 (V1 TOT)		=		1.56		
J =	(DELTA H ABS) (VM) (Y)/(TM)		=		1.65		
K =	(H) + (J)		=		3.21		
% ISO =	(TS) (K) (1.667)		=				

	(TIME) (VS) (PS) (AN)		=		99.2	%	

Hydrogen Chloride Catches in Micrograms		Hydrogen Chloride Concentration mg/m3		Hydrogen Chloride Concentration mg/dscf		Hydrogen Chloride Emissions lbs/hr	
Hydrogen Chloride	2000	Hydrogen Chloride	2.42649	Hydrogen Chloride	0.06871	Hydrogen Chloride	0.1702842

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	M26A	FILE:	
UNIT:	Direct Fired			START TIME:	18:30
DATE:	09-Feb-07		HCL R3	END TIME:	21:45
LENGTH:	74.00	WIDTH:	26.00		60
As (SQFT)	13.36				
			K =	15.40	

		1 = ALL THE WAY IN	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	0.9952	A1	1	1.00	0.80	61	61	372
		2	1.1	1.05	0.88	60	60	371
PITOT CO	0.84	3	1	1.00	0.80	61	61	373
		4	0.93	0.96	0.74	61	61	370
IMP-1 IN	100	5	0.8	0.89	0.64	61	61	373
IMP-2 IN	100	6	0.52	0.72	0.42	60	60	372
IMP-3 IN	0	B1	1	1.00	0.80	61	61	373
IMP-4 IN	228.4	2	1	1.00	0.80	61	61	372
		3	0.9	0.95	0.72	61	61	371
		4	0.8	0.89	0.51	62	62	375
		5	0.6	0.77	0.48	63	63	370
	50.49 %moisture	6	0.32	0.57	0.26	63	63	371
IMP-1FIN	556	456 C1	1.2	1.10	0.96	69	69	372
IMP-2FIN	254	154 2	0.98	0.99	0.78	69	69	372
IMP-3FIN	0	0 3	0.9	0.95	0.72	70	70	373
IMP-4FIN	245.2	16.8 4	0.8	0.89	0.64	69	69	370
		626.8 5	0.65	0.81	0.52	69	69	369
		6	0.4	0.63	0.32	67	67	371
		D1	1.1	1.05	0.88	66	66	372
		2	1	1.00	0.80	64	64	373
		3	0.96	0.98	0.76	63	63	370
		4	0.95	0.97	0.75	62	62	372
		5	1	1.00	0.80	62	62	371
		6	0.82	0.91	0.65	63	63	373

Pstd	29.92						
Tstd	68						
% CO2	6.09	AVERAGE	0.864	0.920	0.685	63.667	371.708
% O2	9.67		0.847 ENTROPY VALUE				
% CO	0.00						
% N2	84.24						
P BAR =	29.9		TS (°R) =	831.7	DELTA H (ABS) =		29.95
P STK =	-0.05				PS (ABS) =		29.90

FINAL METER =	413.665	TM (°R) =	523.7	V1 (TOT) =	626.80
LEAK CHK	0				
INT METER =	384.864				
VM (ACF) =	28.801				

VM STD =	(Tstd/Pstd) -----	(VM)(Y)(DELTA H ABS)	=	28.93 DSCF
	(TM)			
VW STD =	0.4707 (VI TOT)		=	29.50 CF
BWO =	VW (STD)		=	0.505
	VW STD + VM STD		=	50.49 % MOIST
1- BWO =	1 - BWO		=	0.495
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		=	29.3612 LBS/LB MOLE
Ms (wet) =	MD (1-BWO)		=	
	+ 18 (BWO)		=	23.62 LBS/LB MOLE
G =	SQRT (TS / PS / MS)		=	1.09
VS =	85.49(CP)(G)(SQRT DELTA P)avg		=	71.7191 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)		=	1082938.89 DSCFH
				18049 DSCFM
				57529 ACFM
				36456 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M26A	FILE:	0			
UNIT:	Direct Fired		HCL R3	START TIME:		18:30	TIME:	
DATE:	39122			END TIME:		21:45		60
Ds =	74.00							
As (SQFT)	4298.66							
Dn =	0.253	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP	
An =	0.00035	A1	1	1.00	0.80	61	61	372
Y =	0.9952	2	1.1	1.05	0.88	60	60	371
PITOT CO	0.84	3	1	1.00	0.80	61	61	373
		4	0.93	0.96	0.74	61	61	370
IMP-1 IN	100	5	0.8	0.89	0.64	61	61	373
IMP-2 IN	100	0 6	0.52	0.72	0.42	60	60	372
IMP-3 IN	0	0 B1	1	1.00	0.80	61	61	373
IMP-4 IN	228.4	2	1	1.00	0.80	61	61	372
		3	0.9	0.95	0.72	61	61	371
IMP-1FIN	556	4	0.8	0.89	0.51	62	62	375
IMP-2FIN	254	5	0.6	0.77	0.48	63	63	370
IMP-3FIN	0	6	0.32	0.57	0.26	63	63	371
IMP-4FIN	245.2	C1	1.2	1.10	0.96	69	69	372
		2	0.98	0.99	0.78	69	69	372
		3	0.9	0.95	0.72	70	70	373
		4	0.8	0.89	0.64	69	69	370
		5	0.65	0.81	0.52	69	69	369
		6	0.4	0.63	0.32	67	67	371
		D1	1.1	1.05	0.88	66	66	372
		2	1	1.00	0.80	64	64	373
		3	0.96	0.98	0.76	63	63	370
		4	0.95	0.97	0.75	62	62	372
		5	1	1.00	0.80	62	62	371
		6	0.82	0.91	0.65	63	63	373
Pstd	29.92							0
Tstd	68							
% CO2	6.09							
% O2	9.67	AVERAGE	0.864	0.920	0.685	63.667	63.667	356.840
% CO	0							
% N2	84.24							
P BAR =	29.9							
P STK =	-0.05							
		TS (°R) =	816.8	DELTA H (ABS) =				29.95
FINAL METER =	413.665	TM (°F) =	63.7	PS (ABS) =				29.90
LEAK CHK	0	TM (°R) =	523.7	V1 (TOT) =				626.8
INT METER =	384.864							
VM (ACF) =	28.801							
		(VM)(Y)(DELTA H ABS)						
VM STD =	(Tstd/Pstd)			=		28.93	DSCF	
		(TM)						
VW STD =	0.4707 (V1 TOT)			=		29.50	CF	
		VW (STD)						
BWO =				=		0.505		
		VW STD + VM STD				50.49		
1- BWO =		1 - BWO		=		0.495		
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)			=		29.3612	LBS/LB MOLE	
Ms (wet) =		MD (1-BWO)						
		+ 18 (BWO)						
				=		23.62	LBS/LB MOLE	
G =	SQRT (TS / PS / MS)			=		1.08		
VS =	85.49(CP)(G)(SQRT DELTA P)			=		71.08	FPS	
H =	.002669 (V1 TOT)			=		1.67		
J =	(DELTA H ABS) (VM) (Y)/(TM)			=		1.64		
K =	(H) + (J)			=		3.31		
% ISO =	(TS) (K) (1.667)			=				
				=		101.4	%	
		(TIME) (VS) (PS) (AN)						

Hydrogen Chloride Catches in Micrograms		Hydrogen Chloride Concentration mg/m3		Hydrogen Chloride Concentration mg/dscf		Hydrogen Chloride Emissions lbs/hr	
Hydrogen Chloride	3600	Hydrogen Chloride	4.39467	Hydrogen Chloride	0.12444	Hydrogen Chloride	0.2971043

FLOW AND MOISTURE CALCULATION SHEET

FACILITY:	FBR	METHOD:	M5/29	FILE:	
UNIT:	Direct Fired			START TIME:	13:05 TIME: 120
DATE:	09-Feb-07		M5/29R1	END TIME:	15:20
LENGTH:	74.00	WIDTH:	26.00		
As (SQFT)	13.36			K =	15.40

		1 = ALL THE WAY IN	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	0.98143	A1	1.1	1.05	0.88	54	54	373
		2	1	1.00	0.80	54	54	372
PITOT CO	0.84	3	1.2	1.10	0.96	53	53	372
		4	0.8	0.89	0.64	54	54	371
IMP-1 IN	3545.5	5	0.8	0.89	0.64	55	55	370
IMP-2 IN	0	6	0.55	0.74	0.44	56	56	371
IMP-3 IN	0	B1	1	1.00	0.80	56	56	373
IMP-4 IN	238.7	2	1	1.00	0.80	57	57	374
		3	0.97	0.98	0.77	57	57	373
		4	1	1.00	0.80	57	57	373
		5	1	1.00	0.80	56	56	374
	46.28 %moisture	6	0.8	0.89	0.64	57	57	376
IMP-1FIN	4558.9	1013.4 C1	1.2	1.10	0.96	56	56	376
IMP-2FIN	0	0 2	0.96	0.98	0.76	56	56	374
IMP-3FIN	0	0 3	0.88	0.94	0.70	56	56	371
IMP-4FIN	259.3	20.6 4	0.75	0.87	0.60	56	56	373
		1034 5	0.94	0.97	0.75	56	56	370
		6	0.82	0.91	0.65	57	57	372
		D1	1.1	1.05	0.88	58	58	373
		2	0.98	0.99	0.78	58	58	374
		3	0.87	0.93	0.69	58	58	377
		4	0.75	0.87	0.60	59	59	377
		5	0.75	0.87	0.60	62	62	375
		6	0.5	0.71	0.40	62	62	374

Pstd	29.92						
Tstd	68						
% CO2	5.79	AVERAGE	0.905	0.947	0.723	56.667	373.250
% O2	9.89		0.896 ENTROPY VALUE				
% CO	0.00						
% N2	84.32						
P BAR =	29.9		TS (°R) =	833.3	DELTA H (ABS) =		29.95
P STK =	-0.05				PS (ABS) =		29.90

FINAL METER =	727.282	TM (°R) =	516.7	V1 (TOT) =	1034.00
LEAK CHK	0				
INT METER =	671.024				
VM (ACF) =	56.258				

VM STD =	(Tstd/Pstd) -----	(VM)(Y)(DELTA H ABS)	=	56.49 DSCF
	(TM)			
VW STD =	0.4707 (VI TOT)		=	48.67 CF
BWO =	VW (STD)		=	0.463
	VW STD + VM STD			46.28 % MOIST
1- BWO =	1 - BWO		=	0.537
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)		=	29.322 LBS/LB MOLE
Ms (wet) =	MD (1-BWO)			
	+ 18 (BWO)			
	-----		=	24.08 LBS/LB MOLE
G =	SQRT (TS / PS / MS)		=	1.08
VS =	85.49(CP)(G)(SQRT DELTA P)avg		=	73.1323 FPS
QS =	3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)		=	1195918.74 DSCFH
				19932 DSCFM
				58663 ACFM
				37106 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M5/29	FILE:	0			
UNIT:	Direct Fired		M5/29R1	START TIME:		13:05	TIME:	
DATE:	39122			END TIME:		15:20		120
Ds =	74.00							
As (SQFT)	4298.66							
Dn =	0.245	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP	
An =	0.00033	A1	1.1	1.05	0.88	54	54	373
Y =	0.98143	2	1	1.00	0.80	54	54	372
PITOT CO	0.84	3	1.2	1.10	0.96	53	53	372
		4	0.8	0.89	0.64	54	54	371
IMP-1 IN	3545.5	5	0.8	0.89	0.64	55	55	370
IMP-2 IN	0	0 6	0.55	0.74	0.44	56	56	371
IMP-3 IN	0	0 B1	1	1.00	0.80	56	56	373
IMP-4 IN	238.7	2	1	1.00	0.80	57	57	374
		3	0.97	0.98	0.77	57	57	373
IMP-1FIN	4558.9	4	1	1.00	0.80	57	57	373
IMP-2FIN	0	5	1	1.00	0.80	56	56	374
IMP-3FIN	0	6	0.8	0.89	0.64	57	57	376
IMP-4FIN	259.3	C1	1.2	1.10	0.96	56	56	376
		2	0.96	0.98	0.76	56	56	374
		3	0.88	0.94	0.70	56	56	371
		4	0.75	0.87	0.60	56	56	373
		5	0.94	0.97	0.75	56	56	370
		6	0.82	0.91	0.65	57	57	372
		D1	1.1	1.05	0.88	58	58	373
		2	0.98	0.99	0.78	58	58	374
		3	0.87	0.93	0.69	58	58	377
		4	0.75	0.87	0.60	59	59	377
		5	0.75	0.87	0.60	62	62	375
		6	0.5	0.71	0.40	62	62	374
Pstd	29.92							
Tstd	68							
% CO2	5.79							
% O2	9.89	AVERAGE	0.905	0.947	0.723	56.667	56.667	373.250
% CO	0							
% N2	84.32							
P BAR =	29.9							
P STK =	-0.05							
FINAL METER =	727.282	TS (R) =	833.3	DELTA H (ABS) =				29.95
LEAK CHK	0	TM (F) =	56.7	PS (ABS) =				29.90
INT METER =	671.024	TM (R) =	516.7	V1 (TOT) =				1034
VM (ACF) =	56.258							
VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)						
		(TM)						
VW STD =	0.4707 (V1 TOT)							
		VW (STD)						
BWO =								
		VW STD + VM STD						
1- BWO =		1 - BWO						
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)							
Ms (wet) =		MD (1-BWO)						
		+ 18 (BWO)						
G =	SQRT (TS / PS / MS)							
VS =	85.49(CP)(G)(SQRT DELTA P)							
H =	.002669 (V1 TOT)							
J =	(DELTA H ABS) (VM) (Y)/(TM)							
K =	(H) + (J)							
% ISO =	(TS) (K) (1.667)							
		(TIME) (VS) (PS) (AN)						

FACILITY:	FBR	METHOD:	M5/29	Particulate Emission Rates	
UNIT:	Direct Fired		M5/29R1		
DATE:	09-Feb-07			Csd	0.0006 grain/dscf
Gravimetric Particulate Analysis				Csd@7%	0.0008 7% O2
				Csd@12%	0.0012 12%CO2
				Mp	0.1027 lbs/hr
Filter ID	2			Method 5 Calculations	
Beaker ID	6			Mpw =	(Wpw)final-(Wpw)tare
MFtare	0 g	Vpw	69 mL	Bapw =	[(Wab)final-(Wab)tare]*Vpw/Vab
MFfinal	0 g			Bamax =	0.7845*1E-005*VPW
Mf	0 g			Bpw =	MINIMUM[Bapw,Bamax]
PWtare	0 g			Mf =	(Wf)final - (Wf)tare
PWfinal	0 g			M5pm =	Mpw+Mf-Bpw
Mpw	0.0022 g			Csd =	M5pm/Vmstd*7000/453.593
BLANKtare	0 g	Vab	100 mL	Csd@7% =	Csd*20.9-7.0/20.9-%O2
BLANKfinal	0 g			Csd@12% =	Csd*12/%CO2
Wab	0 g			Mp =	M5pm/Vmstd*Qsd*60/453.593
Bamax	0.00054131				
Bapw	0				
Bpw	0 MINIMUM [Bapw,Bamax]				
M5pm	0.0022 g				
Sample Volume					
DSCF	56.49				
DSCM	1.60				

Metals Catches in Micrograms		Metals Concentration mg/m3		Metals Concentration mg/dscf		Metals Emissions lbs/hr	
Chromium	21.5	Chromium	0.01344161	Chromium	0.00038062	Chromium	0.0010035
Lead	15.4	Lead	0.00962795	Lead	0.00027263	Lead	0.0007188
Mercury 1B	0.07	Mercury 1B	4.3763E-05	Mercury 1B	1.2392E-06	Mercury 1B	3.267E-06
Mercury 2B	41.4	Mercury 2B	0.02588292	Mercury 2B	0.00073292	Mercury 2B	0.0019324
Mercury 3A	0.02	Mercury 3A	1.2504E-05	Mercury 3A	3.5407E-07	Mercury 3A	9.335E-07
Mercury 3B	147	Mercury 3B	0.09190313	Mercury 3B	0.00260241	Mercury 3B	0.0068614
Mercury 3C	111	Mercury 3C	0.06939624	Mercury 3C	0.00196508	Mercury 3C	0.005181
Total Mercury in Train	299.49	Total Mercury in Train	0.18723856	Total Mercury in Train	0.00530201	Total Mercury in Train	0.013979

FLOW AND MOISTURE CALCULATION SHEET

FACILITY: FBR METHOD: M5/29 FILE: START TIME: 15:50 TIME: 120
UNIT: Direct Fired M5/29R2 END TIME: 18:05
DATE: 09-Feb-07
LENGTH: 74.00 WIDTH: 26.00
As (SQFT) 13.36 K = 15.40

		1 = ALL THE WAY IN	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	0.98143	A1	1.3	1.14	1.04	74	74	375
		2	0.95	0.97	0.76	73	73	373
PITOT CO	0.84	3	0.89	0.94	0.71	72	72	375
		4	0.75	0.87	0.60	71	71	374
IMP-1 IN	4853.7	5	0.9	0.95	0.72	70	70	373
IMP-2 IN		6	0.8	0.89	0.64	69	69	374
IMP-3 IN		B1	1	1.00	0.80	68	68	375
IMP-4 IN		2	1	1.00	0.80	66	66	374
		3	1.1	1.05	0.88	67	67	374
		4	0.75	0.87	0.60	66	66	374
		5	0.8	0.89	0.64	67	67	376
	46.60 %moisture	6	0.5	0.71	0.40	68	68	375
IMP-1FIN	5878	1024.3 C1	1	1.00	0.80	69	69	378
IMP-2FIN	0	0 2	0.9	0.95	0.72	69	69	380
IMP-3FIN	0	0 3	0.85	0.92	0.68	67	67	380
IMP-4FIN		0 4	0.75	0.87	0.60	68	68	379
		1024.3 5	0.75	0.87	0.60	67	67	377
		6	0.52	0.72	0.42	66	66	377
		D1	1	1.00	0.80	67	67	378
		2	1.1	1.05	0.88	65	65	378
		3	0.95	0.97	0.76	68	68	379
		4	1	1.00	0.80	68	68	379
		5	1	1.00	0.80	68	68	378
		6	0.76	0.87	0.60	68	68	377

Pstd 29.92
Tstd 68
% CO2 7.49 AVERAGE 0.888 0.938 0.710 68.375 68.375 376.333
% O2 9.41
% CO 0.00
% N2 83.10
P BAR = 29.9 TS (R) = 836.3 DELTA H (ABS) = 29.95
P STK = -0.05 PS (ABS) = 29.90

FINAL METER = 785.023 TM (R) = 528.4 V1 (TOT) = 1024.30
LEAK CHK 0
INT METER = 728.74
VM (ACF) = 56.283

VM STD = $\frac{(VM)(Y)(\Delta H \text{ ABS})}{(Tstd/Pstd) \text{ (TM)}}$ = 55.26 DSCF
VW STD = 0.4707 (V1 TOT) = 48.21 CF
BWO = $\frac{VW \text{ (STD)}}{VW \text{ STD} + VM \text{ STD}}$ = 0.466
1- BWO = 1 - BWO = 0.534
Md(dry) = $.44(\%CO2) + .32(\%O2) + .28(\%CO) + .28(\%N2)$ = 29.5748 LBS/LB MOLE
Ms (wet) = $\frac{MD \text{ (1-BWO)} + 18 \text{ (BWO)}}{\text{-----}}$ = 24.18 LBS/LB MOLE
G = $\sqrt{TS / PS / MS}$ = 1.08
VS = $85.49(CP)(G)(\sqrt{DELTA \text{ P}})_{avg}$ = 72.4203 FPS
QS = $3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS)$ = 1173043.01 DSCFH
19551 DSCFM
58092 ACFM
36609 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY:	FBR	METHOD:	M5/29	FILE:	0		
UNIT:	Direct Fired		M5/29R2	START TIME:		15:50	TIME:
DATE:	39122			END TIME:		18:05	120
Ds =	74.00						
As (SQFT)	4298.66						
Dn =	0.245	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
An =	0.00033	A1	1.3	1.14	1.04	74	74 375
Y =	0.98143	2	0.95	0.97	0.76	73	73 373
PITOT CO	0.84	3	0.89	0.94	0.71	72	72 375
		4	0.75	0.87	0.60	71	71 374
IMP-1 IN	4853.7	5	0.9	0.95	0.72	70	70 373
IMP-2 IN	0	0 6	0.8	0.89	0.64	69	69 374
IMP-3 IN	0	0 B1	1	1.00	0.80	68	68 375
IMP-4 IN	0	2	1	1.00	0.80	66	66 374
		3	1.1	1.05	0.88	67	67 374
IMP-1FIN	5878	4	0.75	0.87	0.60	66	66 374
IMP-2FIN	0	5	0.8	0.89	0.64	67	67 376
IMP-3FIN	0	6	0.5	0.71	0.40	68	68 375
IMP-4FIN	0	C1	1	1.00	0.80	69	69 378
		2	0.9	0.95	0.72	69	69 380
		3	0.85	0.92	0.68	67	67 380
		4	0.75	0.87	0.60	68	68 379
		5	0.75	0.87	0.60	67	67 377
		6	0.52	0.72	0.42	66	66 377
		D1	1	1.00	0.80	67	67 378
		2	1.1	1.05	0.88	65	65 378
		3	0.95	0.97	0.76	68	68 379
		4	1	1.00	0.80	68	68 379
		5	1	1.00	0.80	68	68 378
		6	0.76	0.87	0.60	68	68 377
Pstd	29.92						
Tstd	68						
% CO2	7.49						
% O2	9.41	AVERAGE	0.888	0.938	0.710	68.375	68.375 376.333
% CO	0						
% N2	83.10						
P BAR =	29.9						
P STK =	-0.05						
FINAL METER =	785.023	TS ('R) =	836.3	DELTA H (ABS) =			29.95
LEAK CHK	0	TM ('F) =	68.4	PS (ABS) =			29.90
INT METER =	728.74	TM ('R) =	528.4	V1 (TOT) =			1024.3
VM (ACF) =	56.283						
VM STD =	(Tstd/Pstd)	(VM)(Y)(DELTA H ABS)					
		(TM)				55.26	DSCF
VW STD =	0.4707 (V1 TOT)					48.21	CF
BWO =		VW (STD)				0.466	
		VW STD + VM STD				46.60	
1- BWO =		1 - BWO				0.534	
Md(dry) =	.44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2)					29.5748	LBS/LB MOLE
Ms (wet) =		MD (1-BWO)					
		+ 18 (BWO)					
						24.18	LBS/LB MOLE
G =	SQRT (TS / PS / MS)					1.08	
VS =	85.49(CP)(G)(SQRT DELTA P)					72.42	FPS
H =	.002669 (V1 TOT)					2.73	
J =	(DELTA H ABS) (VM) (Y)/(TM)					3.13	
K =	(H) + (J)					5.87	
% ISO =	(TS) (K) (1.667)						
						96.2	%
		(TIME) (VS) (PS) (AN)					

FACILITY:	FBR	METHOD:	M5/29	Particulate Emission Rates	
UNIT:	Direct Fired		M5/29R2		
DATE:	09-Feb-07			Csd	0.0005 grain/dscf
Gravimetric Particulate Analysis				Csd@7%	0.0006 7% O2
				Csd@12%	0.0008 12%CO2
				Mp	0.0796 lbs/hr
Filter ID	2			Method 5 Calculations	
Beaker ID	6			Mpw =	(Wpw)final-(Wpw)tare
MFtare	0 g	Vpw	67 mL	Bapw =	[(Wab)final-(Wab)tare]*Vpw/Vab
MFfinal	0 g			Bamax =	0.7845*1E-005*VPW
Mf	0 g			Bpw =	MINIMUM[Bapw,Bamax]
PWtare	0 g			Mf =	(Wf)final - (Wf)tare
PWfinal	0 g			M5pm =	Mpw+Mf-Bpw
Mpw	0.0017 g			Csd =	M5pm/Vmstd*7000/453.593
BLANKtare	0 g	Vab	40 mL	Csd@7% =	Csd*20.9-7.0/20.9-%O2
BLANKfinal	0 g			Csd@12% =	Csd*12/%CO2
Wab	0 g			Mp =	M5pm/Vmstd*Qsd*60/453.593
Bamax	0.00052562				
Bapw	0				
Bpw	0 MINIMUM [Bapw,Bamax]				
M5pm	0.0017 g				
Sample Volume					
DSCF	55.26				
DSCM	1.56				

Metals Catches in Micrograms		Metals Concentration mg/m3		Metals Concentration mg/dscf		Metals Emissions lbs/hr	
Chromium	4.43	Chromium	0.00283119	Chromium	8.017E-05	Chromium	0.0002073
Lead	4.88	Lead	0.00311878	Lead	8.8314E-05	Lead	0.0002284
Mercury 1B	0	Mercury 1B	0	Mercury 1B	0	Mercury 1B	0
Mercury 2B	60.8	Mercury 2B	0.03885692	Mercury 2B	0.00110031	Mercury 2B	0.0028455
Mercury 3A	0.06	Mercury 3A	3.8346E-05	Mercury 3A	1.0858E-06	Mercury 3A	2.808E-06
Mercury 3B	203	Mercury 3B	0.12973608	Mercury 3B	0.00367372	Mercury 3B	0.0095007
Mercury 3C	13	Mercury 3C	0.00830822	Mercury 3C	0.00023526	Mercury 3C	0.0006084
Total Mercury in Train	276.86	Total Mercury in Train	0.17693957	Total Mercury in Train	0.00501037	Total Mercury in Train	0.0129574

FLOW AND MOISTURE CALCULATION SHEET

FACILITY: FBR METHOD: M5/29 FILE: START TIME: 18:30 TIME: 120
UNIT: Direct Fired M5/29R3 END TIME: 22:55
DATE: 09-Feb-07
LENGTH: 74.00 WIDTH: 26.00
As (SQFT) 13.36 K = 15.40

		1 = ALL THE WAY IN	DEP P	SR RT	DEL H	DGM IN	DGM OUT	ST TEMP
Y =	0.98143	A1	1.1	1.05	0.88	54	54	373
		2	1	1.00	0.80	54	54	372
PITOT CO	0.84	3	1.2	1.10	0.96	53	53	372
		4	0.8	0.89	0.64	54	54	371
IMP-1 IN	3981.1	5	0.8	0.89	0.64	55	55	370
IMP-2 IN	0	6	0.55	0.74	0.44	56	56	371
IMP-3 IN	0	B1	1	1.00	0.80	56	56	373
IMP-4 IN	253.8	2	1	1.00	0.80	57	57	374
		3	0.97	0.98	0.77	57	57	373
		4	1	1.00	0.80	57	57	373
		5	1	1.00	0.80	56	56	374
	45.03 %moisture	6	0.8	0.89	0.64	57	57	376
IMP-1FIN	4924.1	943 C1	1.2	1.10	0.96	56	56	376
IMP-2FIN	0	0 2	0.96	0.98	0.76	56	56	374
IMP-3FIN	0	0 3	0.88	0.94	0.70	56	56	371
IMP-4FIN	274.9	21.1 4	0.75	0.87	0.60	56	56	373
		964.1 5	0.94	0.97	0.75	56	56	370
		6	0.82	0.91	0.65	57	57	372
		D1	1.1	1.05	0.88	58	58	373
		2	0.98	0.99	0.78	58	58	374
		3	0.87	0.93	0.69	58	58	377
		4	0.75	0.87	0.60	59	59	377
		5	0.75	0.87	0.60	62	62	375
		6	0.5	0.71	0.40	62	62	374

Pstd 29.92
Tstd 68
% CO2 6.09 AVERAGE 0.905 0.947 0.723 56.667 56.667 373.250
% O2 9.67
% CO 0.00
% N2 84.24
P BAR = 29.9 TS (R) = 833.3 DELTA H (ABS) = 29.95
P STK = -0.05 PS (ABS) = 29.90

FINAL METER = 840.419 TM (R) = 516.7 V1 (TOT) = 964.10
LEAK CHK 0
INT METER = 785.249
VM (ACF) = 55.17

(VM)(Y)(DELTA H ABS)
VM STD = (Tstd/Pstd) ----- = 55.39 DSCF
(TM)
VW STD = 0.4707 (VI TOT) = 45.38 CF
VW (STD)
BWO = ----- = 0.450
VW STD + VM STD 45.03 % MOIST
1- BWO = 1 - BWO = 0.550
Md(dry) = .44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2) = 29.3612 LBS/LB
MOLE
Ms (wet) = MD (1-BWO)
+ 18 (BWO)
----- = 24.25 LBS/LB
MOLE
G = SQRT (TS / PS / MS) = 1.07
VS = 85.49(CP)(G)(SQRT DELTA P)avg = 72.8856 FPS
QS = 3600(1-BWO)(VS)(AS)(17.64)(PS)/(TS) = 1219665.83 DSCFH
20328 DSCFM
58465 ACFM
36981 SCFM

ISOKINETIC CALCULATION SHEET

FACILITY: FBR METHOD: M5/29 FILE: 0
 UNIT: Direct Fired M5/29R3 START TIME: 18:30 TIME:
 DATE: 39122 END TIME: 22:55 120
 Ds = 74.00
 As (SQFT) 4298.66

Dn = 0.245 DEP P SR RT DEL H DGM IN DGM OUT ST TEMP
 An = 0.00033 A1 1.1 1.05 0.88 54 54 373
 Y = 0.98143 2 1 1.00 0.80 54 54 372
 PITOT CO 0.84 3 1.2 1.10 0.96 53 53 372
 4 0.8 0.89 0.64 54 54 371
 IMP-1 IN 3981.1 5 0.8 0.89 0.64 55 55 370
 IMP-2 IN 0 0 6 0.55 0.74 0.44 56 56 371
 IMP-3 IN 0 0 B1 1 1.00 0.80 56 56 373
 IMP-4 IN 253.8 2 1 1.00 0.80 57 57 374
 3 0.97 0.98 0.77 57 57 373
 IMP-1FIN 4924.1 4 1 1.00 0.80 57 57 373
 IMP-2FIN 0 5 1 1.00 0.80 56 56 374
 IMP-3FIN 0 6 0.8 0.89 0.64 57 57 376
 IMP-4FIN 274.9 C1 1.2 1.10 0.96 56 56 376
 2 0.96 0.98 0.76 56 56 374
 3 0.88 0.94 0.70 56 56 371
 4 0.75 0.87 0.60 56 56 373
 5 0.94 0.97 0.75 56 56 370
 6 0.82 0.91 0.65 57 57 372
 D1 1.1 1.05 0.88 58 58 373
 2 0.98 0.99 0.78 58 58 374
 3 0.87 0.93 0.69 58 58 377
 4 0.75 0.87 0.60 59 59 377
 5 0.75 0.87 0.60 62 62 375
 6 0.5 0.71 0.40 62 62 374

Pstd 29.92
 Tstd 68
 % CO2 6.09
 % O2 9.67
 % CO 0
 % N2 84.24
 P BAR = 29.9
 P STK = -0.05

AVERAGE 0.905 0.947 0.723 56.667 56.667 373.250

TS (R) = 833.3 DELTA H (ABS) = 29.95
 TM (F) = 56.7 PS (ABS) = 29.90
 TM (R) = 516.7 V1 (TOT) = 964.1

FINAL METER = 840.419
 LEAK CHK 0
 INT METER = 785.249
 VM (ACF) = 55.17

(VM)(Y)(DELTA H ABS)
 VM STD = (Tstd/Pstd) ----- = 55.39 DSCF
 (TM)

VW STD = 0.4707 (V1 TOT) = 45.38 CF

VW (STD)
 BWO = ----- = 0.450
 VW STD + VM STD 45.03

1- BWO = 1 - BWO = 0.550

Md(dry) = .44(%CO2)+.32(%O2)+.28(%CO)+.28(%N2) = 29.3612 LBS/LB
 MOLE

Ms (wet) = MD (1-BWO)
 + 18 (BWO)
 ----- = 24.25 LBS/LB
 MOLE

G = SQRT (TS / PS / MS) = 1.07

VS = 85.49(CP)(G)(SQRT DELTA P) = 72.89 FPS

H = .002669 (V1 TOT) = 2.57

J = (DELTA H ABS) (VM) (Y)/(TM) = 3.14

K = (H) + (J) = 5.71

% ISO = (TS) (K) (1.667)
 ----- = 92.7 %
 (TIME) (VS) (PS) (AN)

FACILITY:	FBR	METHOD:	M5/29	Particulate Emission Rates	
UNIT:	Direct Fired		M5/29R3		
DATE:	09-Feb-07			Csd	0.0004 grain/dscf
Gravimetric Particulate Analysis				Csd@7%	0.0006 7% O2
Filter ID	2			Csd@12%	0.0009 12%CO2
Beaker ID	6			Mp	0.0777 lbs/hr
Method 5 Calculations					
MFtare	0 g	Vpw	51 mL	Mpw =	(Wpw)final-(Wpw)tare
MFfinal	0 g			Bapw =	[(Wab)final-(Wab)tare]*Vpw/Vab
Mf	0 g			Bamax =	0.7845*1E-005*VPW
PWtare	0 g			Bpw =	MINIMUM[Bapw,Bamax]
PWfinal	0 g			Mf =	(Wf)final - (Wf)tare
Mpw	0.0016 g			M5pm =	Mpw+Mf-Bpw
BLANKtare	0 g	Vab	40 mL	Csd =	M5pm/Vmstd*7000/453.593
BLANKfinal	0 g			Csd@7% =	Csd*20.9-7.0/20.9-%O2
Wab	0 g			Csd@12% =	Csd*12/%CO2
Bamax	0.0004001			Mp =	M5pm/Vmstd*Qsd*60/453.593
Bapw	0				
Bpw	0 MINIMUM [Bapw,Bamax]				
M5pm	0.0016 g				
Sample Volume					
DSCF	55.39				
DSCM	1.57				

Metals Catches in Micrograms		Metals Concentration mg/m3		Metals Concentration mg/dscf		Metals Emissions lbs/hr	
Chromium	11.9	Chromium	0.0075865	Chromium	0.00021483	Chromium	0.0005776
Lead	7.12	Lead	0.00453915	Lead	0.00012853	Lead	0.0003456
Mercury 1B	0	Mercury 1B	0	Mercury 1B	0	Mercury 1B	0
Mercury 2B	57	Mercury 2B	0.03633868	Mercury 2B	0.001029	Mercury 2B	0.0027669
Mercury 3A	0.15	Mercury 3A	9.5628E-05	Mercury 3A	2.7079E-06	Mercury 3A	7.281E-06
Mercury 3B	105	Mercury 3B	0.06693967	Mercury 3B	0.00189552	Mercury 3B	0.0050969
Mercury 3C	137	Mercury 3C	0.08734033	Mercury 3C	0.0024732	Mercury 3C	0.0066502
Total Mercury in Train	299.15	Total Mercury in Train	0.19071431	Total Mercury in Train	0.00540043	Total Mercury in Train	0.0145212

Appendix E

CEM Data – Emission Test Contractor

ESMI Direct Fired PoP - CEM Data

Date	Time	O2 %	CO2 %	CO ppm @ 7% O2	THC ppm (propane)	CO ppm
RUN 1						
Average		8.80	5.92	14.12	1.98	12.19
Min		7.55	5.21	8.51	1.71	7.82
Max		9.78	6.89	20.50	2.29	18.08
Std Dev		0.54	0.39	3.96	0.13	3.09
2/8	1032	8.99	6.09	12.98	2.19	11.12
2/8	1033	9.19	5.79	14.93	2.01	12.58
2/8	1034	8.43	6.23	13.09	2.06	11.74
2/8	1035	8.03	6.49	12.30	2.14	11.39
2/8	1036	7.55	6.89	11.09	2.28	10.65
2/8	1037	8.21	6.64	10.96	2.27	10.01
2/8	1038	8.04	6.83	12.17	2.29	11.26
2/8	1039	8.21	6.73	13.68	2.28	12.49
2/8	1040	8.59	6.53	13.47	2.15	11.93
2/8	1041	8.73	6.48	11.50	2.15	10.07
2/8	1042	8.82	6.33	10.60	2.12	9.21
2/8	1043	8.88	6.30	10.45	2.16	9.04
2/8	1044	8.95	6.48	11.13	2.07	9.57
2/8	1045	8.66	6.28	11.59	2.10	10.21
2/8	1046	8.48	6.43	11.78	2.12	10.53
2/8	1047	8.73	6.21	11.49	2.08	10.06
2/8	1048	9.06	5.99	12.91	1.98	11.00
2/8	1049	9.29	5.81	14.77	2.00	12.34
2/8	1050	9.26	5.90	16.53	1.94	13.84
2/8	1051	9.22	5.84	16.78	2.02	14.10
2/8	1052	9.37	5.68	17.82	1.95	14.78
2/8	1053	9.40	5.96	18.71	1.90	15.48
2/8	1054	9.41	5.79	19.02	1.95	15.72
2/8	1055	9.35	5.73	18.91	1.96	15.71
2/8	1056	9.55	5.80	19.90	1.93	16.25
2/8	1057	9.39	5.87	19.88	1.92	16.46
2/8	1058	9.35	5.78	19.62	1.95	16.30
2/8	1059	9.08	5.88	18.42	1.96	15.66
2/8	1100	8.84	6.11	13.92	2.03	12.08
2/8	1101	8.76	6.01	11.54	1.97	10.08
2/8	1102	8.84	5.92	11.08	2.05	9.61
2/8	1103	9.03	5.83	10.26	1.92	8.76
2/8	1104	9.07	6.09	10.19	1.94	8.67
2/8	1105	8.80	6.07	9.63	1.97	8.38
2/8	1106	8.82	5.87	9.00	1.95	7.82
2/8	1107	8.79	5.89	9.00	1.92	7.84
2/8	1108	8.77	6.07	9.97	1.95	8.70
2/8	1109	8.92	5.68	11.52	1.92	9.93
2/8	1110	9.78	5.27	15.54	1.71	12.43
2/8	1111	9.70	5.38	18.67	1.77	15.04
2/8	1112	9.68	5.36	19.90	1.79	16.06

ESMI Direct Fired PoP - CEM Data

Date	Time	O2 %	CO2 %	CO ppm @ 7% O2	THC ppm (propane)	CO ppm
2/8	1113	9.59	5.35	20.16	1.78	16.40
2/8	1114	9.22	5.54	18.23	1.86	15.32
2/8	1115	9.30	5.21	18.65	1.81	15.56
2/8	1116	9.21	5.42	19.01	1.92	15.99
2/8	1117	9.11	5.48	19.26	1.93	16.34
2/8	1118	9.01	5.39	18.67	1.80	15.97
2/8	1119	8.96	5.41	19.63	1.86	16.86
2/8	1120	8.90	5.44	20.25	1.81	17.48
2/8	1121	8.64	5.56	20.50	1.82	18.08
2/8	1122	8.25	5.73	17.28	1.92	15.73
2/8	1123	8.10	5.89	13.97	1.96	12.86
2/8	1124	8.04	5.86	12.15	1.93	11.24
2/8	1125	7.99	5.91	10.95	2.00	10.17
2/8	1126	8.04	5.81	10.06	1.94	9.31
2/8	1127	7.88	5.91	9.32	1.99	8.73
2/8	1128	7.80	6.06	8.51	1.97	8.02
2/8	1129	7.76	6.01	8.53	1.99	8.06
2/8	1130	8.07	5.75	8.87	1.87	8.19
2/8	1131	8.33	5.46	9.24	1.89	8.36
2/8	1132	8.67	5.72	11.14	1.91	9.80

ESMI Direct Fired PoP - CEM Data

Date	Time	O2 %	CO2 %	CO ppm @ 7% O2	THC ppm (propane)	CO ppm
RUN 2						
Average		9.83	6.39	16.50	2.13	13.13
Min		9.20	5.93	10.24	1.98	8.03
Max		10.41	7.03	26.26	2.33	21.01
Std Dev		0.28	0.22	3.32	0.08	2.61
2/8	1700	9.81	6.39	10.95	2.22	8.74
2/8	1701	10.00	6.35	10.24	2.22	8.03
2/8	1702	10.00	6.39	11.89	2.11	9.32
2/8	1703	9.74	6.48	13.39	2.17	10.75
2/8	1704	9.50	6.64	12.71	2.33	10.42
2/8	1705	9.39	6.62	11.75	2.31	9.73
2/8	1706	9.20	7.03	12.31	2.25	10.36
2/8	1707	9.30	6.68	14.79	2.23	12.34
2/8	1708	9.25	6.68	15.90	2.25	13.33
2/8	1709	9.32	6.86	15.80	2.25	13.16
2/8	1710	9.36	7.00	15.54	2.23	12.90
2/8	1711	9.64	6.84	17.46	2.17	14.14
2/8	1712	9.62	6.58	16.32	2.18	13.24
2/8	1713	9.62	6.49	15.18	2.18	12.32
2/8	1714	9.74	6.49	13.64	2.19	10.95
2/8	1715	9.82	6.45	13.32	2.17	10.62
2/8	1716	10.01	6.33	14.41	2.23	11.29
2/8	1717	10.12	6.30	15.03	2.21	11.66
2/8	1718	10.20	6.26	14.50	2.18	11.16
2/8	1719	10.13	6.37	14.43	2.11	11.18
2/8	1720	10.20	6.02	14.69	1.99	11.31
2/8	1721	10.31	5.93	15.71	2.05	11.97
2/8	1722	10.23	6.21	17.95	2.01	13.78
2/8	1723	10.08	6.23	17.65	2.10	13.74
2/8	1724	9.89	6.37	18.12	2.11	14.35
2/8	1725	9.82	6.43	18.57	2.17	14.80
2/8	1726	9.67	6.60	19.09	2.18	15.42
2/8	1727	9.60	6.65	17.69	2.20	14.38
2/8	1728	9.61	6.58	15.86	2.21	12.88
2/8	1729	9.60	6.57	14.36	2.23	11.67
2/8	1730	9.85	6.47	14.89	2.12	11.84
2/8	1731	9.91	6.38	14.79	2.16	11.69
2/8	1732	9.79	6.57	14.33	2.12	11.45
2/8	1733	9.80	6.30	13.09	2.18	10.45
2/8	1734	10.08	6.37	12.32	2.11	9.59
2/8	1735	10.40	6.15	14.83	2.04	11.20
2/8	1736	10.41	6.04	16.97	2.07	12.81
2/8	1737	10.15	6.36	17.82	2.04	13.78
2/8	1738	10.03	6.33	18.00	2.06	14.08
2/8	1739	10.12	6.09	20.22	2.04	15.68

ESMI Direct Fired PoP - CEM Data

Date	Time	O2 %	CO2 %	CO ppm @ 7% O2	THC ppm (propane)	CO ppm
2/8	1740	10.20	6.20	24.03	2.07	18.50
2/8	1741	10.07	6.21	25.95	2.06	20.22
2/8	1742	9.78	6.33	26.26	2.14	21.01
2/8	1743	9.81	6.37	25.33	2.07	20.21
2/8	1744	9.75	6.36	22.55	2.14	18.09
2/8	1745	9.85	6.46	19.36	2.09	15.39
2/8	1746	9.98	6.32	17.44	2.18	13.70
2/8	1747	9.95	6.25	16.43	2.04	12.94
2/8	1748	9.95	6.35	15.70	2.12	12.37
2/8	1749	10.03	6.36	16.19	2.07	12.66
2/8	1750	9.99	6.11	17.63	1.98	13.84
2/8	1751	9.88	6.22	18.06	2.05	14.32
2/8	1752	9.80	6.27	17.47	2.07	13.95
2/8	1753	9.78	6.25	17.25	2.07	13.80
2/8	1754	9.85	6.12	17.70	1.99	14.07
2/8	1755	9.79	6.44	18.22	2.03	14.56
2/8	1756	9.64	6.43	17.96	2.06	14.55
2/8	1757	9.46	6.28	17.40	2.13	14.32
2/8	1758	9.45	6.36	16.34	2.08	13.46
2/8	1759	9.62	6.15	16.07	2.05	13.04
2/8	1800	9.71	6.20	16.84	2.05	13.56
Average		9.83	6.39	16.50	2.13	13.13

ESMI Direct Fired PoP - CEM Data

Date	Time	O2 %	CO2 %	CO ppm @ 7% O2	THC ppm (propane)	CO ppm
RUN 3						
Average		10.22	5.12	37.40	1.71	28.57
Min		9.38	0.48	20.14	0.17	15.75
Max		11.15	6.03	78.52	2.00	57.22
Std Dev		0.53	0.85	14.43	0.29	10.64
2/8	2130	9.38	6.03	37.72	2.00	31.26
2/8	2131	9.50	5.90	39.64	1.97	32.51
2/8	2132	9.46	5.90	40.23	1.97	33.11
2/8	2133	9.52	5.78	39.62	1.96	32.44
2/8	2134	9.46	5.85	39.97	1.96	32.90
2/8	2135	9.69	5.75	41.63	1.89	33.57
2/8	2136	9.78	5.64	44.15	1.88	35.32
2/8	2137	9.65	5.57	44.83	1.89	36.28
2/8	2138	9.65	5.67	49.79	1.87	40.30
2/8	2139	9.64	5.61	55.14	1.86	44.67
2/8	2140	9.73	5.64	61.59	1.89	49.49
2/8	2141	10.75	5.07	73.65	1.67	53.78
2/8	2142	10.77	4.96	78.52	1.67	57.22
2/8	2143	10.51	5.31	65.10	1.69	48.66
2/8	2144	10.71	5.01	65.82	1.66	48.25
2/8	2145	10.55	5.12	69.98	1.73	52.11
2/8	2146	10.56	5.12	63.77	1.71	47.44
2/8	2147	10.61	5.07	53.91	1.70	39.91
2/8	2148	10.75	4.99	46.89	1.65	34.24
2/8	2149	10.79	5.17	42.54	1.62	30.94
2/8	2150	10.98	2.50	42.76	0.78	30.52
2/8	2151	11.06	3.22	42.56	1.11	30.13
2/8	2152	11.10	4.90	35.39	1.60	24.95
2/8	2153	10.93	0.48	30.49	0.17	21.87
2/8	2154	11.15	3.29	30.15	1.02	21.15
2/8	2155	11.08	4.93	36.00	1.60	25.43
2/8	2156	11.05	4.84	37.21	1.65	26.37
2/8	2157	10.93	4.83	36.56	1.66	26.22
2/8	2158	10.88	4.77	38.51	1.67	27.76
2/8	2159	10.89	4.82	43.19	1.73	31.10
2/8	2200	10.80	4.84	47.84	1.71	34.76
2/8	2201	10.33	4.99	45.30	1.63	34.45
2/8	2202	10.18	5.28	40.01	1.74	30.86
2/8	2203	10.00	5.38	35.20	1.78	27.60
2/8	2204	10.08	5.33	31.50	1.76	24.52
2/8	2205	10.06	5.34	29.45	1.77	22.97
2/8	2206	10.00	5.35	28.14	1.77	22.07
2/8	2207	10.00	5.38	27.21	1.82	21.34
2/8	2208	9.96	5.34	25.70	1.79	20.23
2/8	2209	10.02	5.36	25.03	1.82	19.59

ESMI Direct Fired PoP - CEM Data

Date	Time	O2 %	CO2 %	CO ppm @ 7% O2	THC ppm (propane)	CO ppm
2/8	2210	10.06	5.39	23.41	1.78	18.26
2/8	2211	10.06	5.31	21.53	1.76	16.79
2/8	2212	10.03	5.33	20.14	1.80	15.75
2/8	2213	9.96	5.40	20.95	1.80	16.49
2/8	2214	10.12	5.26	23.57	1.73	18.28
2/8	2215	10.03	5.22	23.34	1.77	18.25
2/8	2216	9.87	5.32	22.91	1.79	18.18
2/8	2217	9.73	5.42	22.80	1.81	18.32
2/8	2218	9.76	5.50	23.31	1.79	18.68
2/8	2219	9.80	5.50	22.82	1.92	18.22
2/8	2220	9.73	5.52	21.80	1.86	17.52
2/8	2221	9.64	5.43	23.28	1.82	18.86
2/8	2222	9.60	5.57	24.48	1.88	19.90
2/8	2223	9.60	5.57	24.93	1.85	20.27
2/8	2224	9.67	5.48	25.70	1.90	20.76
2/8	2225	10.14	5.51	26.68	1.75	20.65
2/8	2226	10.36	5.36	27.02	1.70	20.49
2/8	2227	10.46	5.13	27.36	1.71	20.55
2/8	2228	10.57	5.02	27.77	1.70	20.64
2/8	2229	10.64	4.93	30.47	1.65	22.49
2/8	2230	10.69	5.01	34.62	1.77	25.43

Source: FBR Direct Fired TDU

Location:

Date: 2/8/2007

	span		cylinder value	initial cal.	initial system response	final system response	percent analyzer error %	initial system bias %	final system bias %	average system bias %	system drift %	analyzer test average	effluent gas conc.
Run 1	100	zero	0.00	0.92	0.00	0.01	0.92	-0.92	-0.91	-0.92	0.01	12.19	13.00
CO		mid	27.00	26.34	25.82	24.81	-0.66	-0.52	-1.53	-1.03	-1.01		
PPM		high	56.50	56.12			-0.38						15.3@7%
Run 2	100	zero	0.00	0.92	0.00	0.00	0.92	-0.92	-0.92	-0.92	0.00	13.13	14.39
CO		mid	27.00	26.34	25.54	23.73	-0.66	-0.80	-2.61	-1.71	-1.81		
PPM		high	56.50	56.12			-0.38						18.0@7%
Run 3	100	zero	0.00	0.92	0.00	0.00	0.92	-0.92	-0.92	-0.92	0.00	28.57	29.50
CO		mid	27.00	26.34	26.20	26.10	-0.66	-0.14	-0.24	-0.19	-0.10		
PPM		high	56.50	56.12			-0.38						38.2@7%

Appendix F

Screen 3 Model Runs

03/07/07
16:45:52

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

FBR ESMI PoP, CO from Main Stack, Run #1

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = .150000
STACK HEIGHT (M) = 10.7000
STK INSIDE DIAM (M) = 1.4000
STK EXIT VELOCITY (M/S)= 17.2677
STK GAS EXIT TEMP (K) = 455.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = RURAL
BUILDING HEIGHT (M) = .0000
MIN HORIZ BLDG DIM (M) = .0000
MAX HORIZ BLDG DIM (M) = .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS
ENTERED.

STACK EXIT VELOCITY WAS CALCULATED FROM
VOLUME FLOW RATE = 56323.000 (ACFM)

BUOY. FLUX = 29.541 M**4/S**3; MOM. FLUX = 94.085 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

DIST	CONC	U10M	USTK	MIX HT	PLUME	SIGMA	SIGMA		
(M)	(UG/M**3)	STAB	(M/S)	(M/S)	(M)	HT (M)	Y (M)	Z (M)	DWASH
50.	.2790E-02	6	1.0	1.0	10000.0	86.01	18.60	18.53	NO
100.	.3634E-01	5	1.0	1.0	10000.0	101.86	26.76	26.28	NO
200.	.6942	4	20.0	20.2	6400.0	22.33	15.75	8.83	NO
300.	1.677	4	20.0	20.2	6400.0	22.33	22.83	12.49	NO

400.	1.847	4	20.0	20.2	6400.0	22.33	29.70	15.73	NO
500.	1.704	4	20.0	20.2	6400.0	22.33	36.35	18.70	NO
600.	1.508	4	15.0	15.2	4800.0	27.61	43.02	21.82	NO
700.	1.379	4	15.0	15.2	4800.0	27.61	49.45	24.57	NO
800.	1.240	4	15.0	15.2	4800.0	27.61	55.81	27.27	NO
900.	1.163	4	10.0	10.1	3200.0	37.57	62.36	30.45	NO
1000.	1.093	4	10.0	10.1	3200.0	37.57	68.56	33.00	NO
1100.	1.019	4	8.0	8.1	2560.0	44.29	74.93	35.45	NO
1200.	.9665	4	8.0	8.1	2560.0	44.29	81.01	37.35	NO
1300.	.9144	4	8.0	8.1	2560.0	44.29	87.05	39.19	NO
1400.	.8640	4	8.0	8.1	2560.0	44.29	93.05	41.00	NO
1500.	.8161	4	8.0	8.1	2560.0	44.29	99.01	42.76	NO
1600.	.7710	4	8.0	8.1	2560.0	44.29	104.93	44.49	NO
1700.	.7288	4	8.0	8.1	2560.0	44.29	110.82	46.18	NO
1800.	.6957	4	5.0	5.1	1600.0	64.45	117.29	49.31	NO
1900.	.6768	4	5.0	5.1	1600.0	64.45	123.09	50.89	NO
2000.	.6574	4	5.0	5.1	1600.0	64.45	128.86	52.45	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 50. M:

385.	1.851	4	20.0	20.2	6400.0	22.33	28.75	15.29	NO
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DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \times LB$

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN	1.851	385.	0.
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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

03/07/07

16:41:57

*** SCREEN3 MODEL RUN ***

*** VERSION DATED 96043 ***

FBR ESMI PoP, CO from Main Stack, Run #2

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = .180000
STACK HEIGHT (M) = 10.7000
STK INSIDE DIAM (M) = 1.4000
STK EXIT VELOCITY (M/S)= 16.9044
STK GAS EXIT TEMP (K) = 461.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = RURAL
BUILDING HEIGHT (M) = .0000
MIN HORIZ BLDG DIM (M) = .0000
MAX HORIZ BLDG DIM (M) = .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

STACK EXIT VELOCITY WAS CALCULATED FROM
VOLUME FLOW RATE = 55138.000 (ACFM)

BUOY. FLUX = 29.601 M**4/S**3; MOM. FLUX = 88.994 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)		U10M STAB (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	SIGMA DWASH
50.	.3349E-02	6	1.0	1.0	10000.0	86.06	18.61	18.54	NO
100.	.4359E-01	5	1.0	1.0	10000.0	101.92	26.77	26.30	NO
200.	.8405	4	20.0	20.2	6400.0	22.30	15.75	8.83	NO
300.	2.022	4	20.0	20.2	6400.0	22.30	22.83	12.49	NO
400.	2.223	4	20.0	20.2	6400.0	22.30	29.70	15.73	NO
500.	2.049	4	20.0	20.2	6400.0	22.30	36.35	18.70	NO
600.	1.813	4	15.0	15.2	4800.0	27.57	43.02	21.82	NO
700.	1.658	4	15.0	15.2	4800.0	27.57	49.45	24.58	NO
800.	1.491	4	15.0	15.2	4800.0	27.57	55.81	27.27	NO

900.	1.393	4	10.0	10.1	3200.0	37.61	62.36	30.45	NO
1000.	1.309	4	10.0	10.1	3200.0	37.61	68.56	33.00	NO
1100.	1.221	4	8.0	8.1	2560.0	44.34	74.93	35.45	NO
1200.	1.158	4	8.0	8.1	2560.0	44.34	81.01	37.35	NO
1300.	1.096	4	8.0	8.1	2560.0	44.34	87.05	39.20	NO
1400.	1.035	4	8.0	8.1	2560.0	44.34	93.05	41.00	NO
1500.	.9781	4	8.0	8.1	2560.0	44.34	99.01	42.76	NO
1600.	.9241	4	8.0	8.1	2560.0	44.34	104.93	44.49	NO
1700.	.8736	4	8.0	8.1	2560.0	44.34	110.82	46.18	NO
1800.	.8331	4	5.0	5.1	1600.0	64.53	117.30	49.32	NO
1900.	.8106	4	5.0	5.1	1600.0	64.53	123.09	50.90	NO
2000.	.7874	4	5.0	5.1	1600.0	64.53	128.86	52.46	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 50. M:

385.	2.228	4	20.0	20.2	6400.0	22.30	28.75	15.29	NO
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DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \times LB$

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN	2.228	385.	0.
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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

03/07/07
16:35:50

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

FBR ESMI PoP Test, CO from Main Stack, Run #3

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = .380000
STACK HEIGHT (M) = 10.7000
STK INSIDE DIAM (M) = 1.4000
STK EXIT VELOCITY (M/S)= 17.5442
STK GAS EXIT TEMP (K) = 458.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = RURAL
BUILDING HEIGHT (M) = .0000
MIN HORIZ BLDG DIM (M) = .0000
MAX HORIZ BLDG DIM (M) = .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS
ENTERED.

STACK EXIT VELOCITY WAS CALCULATED FROM
VOLUME FLOW RATE = 57225.000 (ACFM)

BUOY. FLUX = 30.370 M**4/S**3; MOM. FLUX = 96.486 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
50.	.7105E-02	6	1.0	1.0	10000.0	86.70	18.77	18.70 NO
100.	.9154E-01	5	1.0	1.0	10000.0	102.70	26.99	26.52 NO
200.	1.609	4	20.0	20.2	6400.0	22.65	15.75	8.84 NO

300.	4.062	4	20.0	20.2	6400.0	22.65	22.83	12.50	NO
400.	4.548	4	20.0	20.2	6400.0	22.65	29.70	15.74	NO
500.	4.230	4	20.0	20.2	6400.0	22.65	36.36	18.71	NO
600.	3.728	4	20.0	20.2	6400.0	22.65	42.90	21.57	NO
700.	3.427	4	15.0	15.2	4800.0	28.03	49.47	24.60	NO
800.	3.092	4	15.0	15.2	4800.0	28.03	55.82	27.29	NO
900.	2.879	4	10.0	10.1	3200.0	38.14	62.38	30.49	NO
1000.	2.714	4	10.0	10.1	3200.0	38.14	68.58	33.04	NO
1100.	2.529	4	10.0	10.1	3200.0	38.14	74.72	35.01	NO
1200.	2.395	4	8.0	8.1	2560.0	45.00	81.03	37.40	NO
1300.	2.270	4	8.0	8.1	2560.0	45.00	87.07	39.24	NO
1400.	2.148	4	8.0	8.1	2560.0	45.00	93.07	41.05	NO
1500.	2.032	4	8.0	8.1	2560.0	45.00	99.03	42.81	NO
1600.	1.922	4	8.0	8.1	2560.0	45.00	104.95	44.53	NO
1700.	1.819	4	8.0	8.1	2560.0	45.00	110.84	46.22	NO
1800.	1.722	4	8.0	8.1	2560.0	45.00	116.70	47.87	NO
1900.	1.668	4	5.0	5.1	1600.0	65.58	123.13	50.99	NO
2000.	1.623	4	5.0	5.1	1600.0	65.58	128.90	52.55	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 50. M:

392.	4.551	4	20.0	20.2	6400.0	22.65	29.23	15.52	NO
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DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \cdot LB$

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO	TERRAIN
-------------	----------	---------	---------

PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
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SIMPLE TERRAIN	4.551	392.	0.

** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

03/07/07
17:13:12

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

FBR ESMI PoP, PM from Main Stack, Run #1

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = .130000E-01
STACK HEIGHT (M) = 10.7000
STK INSIDE DIAM (M) = 1.4000
STK EXIT VELOCITY (M/S)= 17.9851
STK GAS EXIT TEMP (K) = 463.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = RURAL
BUILDING HEIGHT (M) = .0000
MIN HORIZ BLDG DIM (M) = .0000
MAX HORIZ BLDG DIM (M) = .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS
ENTERED.

STACK EXIT VELOCITY WAS CALCULATED FROM
VOLUME FLOW RATE = 58663.000 (ACFM)

BUOY. FLUX = 31.730 M**4/S**3; MOM. FLUX = 100.301 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
50.	.2450E-03	6	1.0	1.0	10000.0	87.82	19.04	18.97 NO
100.	.3114E-02	6	1.0	1.0	10000.0	87.82	22.41	22.16 NO
200.	.4756E-01	4	20.0	20.2	6400.0	23.17	15.75	8.85 NO

300.	.1290	4	20.0	20.2	6400.0	23.17	22.84	12.51	NO
400.	.1484	4	20.0	20.2	6400.0	23.17	29.71	15.76	NO
500.	.1399	4	20.0	20.2	6400.0	23.17	36.37	18.74	NO
600.	.1243	4	20.0	20.2	6400.0	23.17	42.91	21.59	NO
700.	.1135	4	15.0	15.2	4800.0	28.73	49.48	24.63	NO
800.	.1030	4	15.0	15.2	4800.0	28.73	55.84	27.32	NO
900.	.9491E-01	4	10.0	10.1	3200.0	39.05	62.41	30.56	NO
1000.	.8993E-01	4	10.0	10.1	3200.0	39.05	68.61	33.10	NO
1100.	.8405E-01	4	10.0	10.1	3200.0	39.05	74.75	35.07	NO
1200.	.7898E-01	4	8.0	8.1	2560.0	46.14	81.07	37.49	NO
1300.	.7509E-01	4	8.0	8.1	2560.0	46.14	87.11	39.33	NO
1400.	.7126E-01	4	8.0	8.1	2560.0	46.14	93.10	41.12	NO
1500.	.6756E-01	4	8.0	8.1	2560.0	46.14	99.06	42.88	NO
1600.	.6403E-01	4	8.0	8.1	2560.0	46.14	104.98	44.60	NO
1700.	.6071E-01	4	8.0	8.1	2560.0	46.14	110.87	46.29	NO
1800.	.5758E-01	4	8.0	8.1	2560.0	46.14	116.72	47.94	NO
1900.	.5465E-01	4	8.0	8.1	2560.0	46.14	122.55	49.57	NO
2000.	.5320E-01	4	5.0	5.1	1600.0	67.41	128.97	52.70	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 50. M:

403.	.1484	4	20.0	20.2	6400.0	23.17	29.98	15.88	NO
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DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \times LB$

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO	TERRAIN
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PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
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SIMPLE TERRAIN	.1484	403.	0.
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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

03/07/07

17:20:48

*** SCREEN3 MODEL RUN ***

*** VERSION DATED 96043 ***

FBR ESMI PoP, PM from main stack, Run #2

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = .100000E-01
STACK HEIGHT (M) = 10.7000
STK INSIDE DIAM (M) = 1.4000
STK EXIT VELOCITY (M/S)= 17.8100
STK GAS EXIT TEMP (K) = 465.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = RURAL
BUILDING HEIGHT (M) = .0000
MIN HORIZ BLDG DIM (M) = .0000
MAX HORIZ BLDG DIM (M) = .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS ENTERED.

STACK EXIT VELOCITY WAS CALCULATED FROM
VOLUME FLOW RATE = 58092.000 (ACFM)

BUOY. FLUX = 31.654 M**4/S**3; MOM. FLUX = 97.935 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING DISTANCES ***

DIST (M)	CONC (UG/M**3)		U10M STAB (M/S)	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
50.	.1884E-03	6	1.0	1.0	10000.0	87.76	19.03	18.96	NO
100.	.2396E-02	6	1.0	1.0	10000.0	87.76	22.39	22.14	NO
200.	.3712E-01	4	20.0	20.2	6400.0	23.12	15.75	8.84	NO
300.	.9998E-01	4	20.0	20.2	6400.0	23.12	22.84	12.51	NO
400.	.1147	4	20.0	20.2	6400.0	23.12	29.71	15.76	NO
500.	.1080	4	20.0	20.2	6400.0	23.12	36.37	18.74	NO
600.	.9586E-01	4	20.0	20.2	6400.0	23.12	42.91	21.59	NO
700.	.8758E-01	4	15.0	15.2	4800.0	28.66	49.48	24.63	NO

800.	.7943E-01	4	15.0	15.2	4800.0	28.66	55.83	27.32	NO
900.	.7316E-01	4	10.0	10.1	3200.0	39.00	62.41	30.56	NO
1000.	.6930E-01	4	10.0	10.1	3200.0	39.00	68.61	33.10	NO
1100.	.6476E-01	4	10.0	10.1	3200.0	39.00	74.75	35.07	NO
1200.	.6088E-01	4	8.0	8.1	2560.0	46.08	81.07	37.48	NO
1300.	.5787E-01	4	8.0	8.1	2560.0	46.08	87.11	39.32	NO
1400.	.5491E-01	4	8.0	8.1	2560.0	46.08	93.10	41.12	NO
1500.	.5205E-01	4	8.0	8.1	2560.0	46.08	99.06	42.88	NO
1600.	.4933E-01	4	8.0	8.1	2560.0	46.08	104.98	44.60	NO
1700.	.4676E-01	4	8.0	8.1	2560.0	46.08	110.87	46.28	NO
1800.	.4435E-01	4	8.0	8.1	2560.0	46.08	116.72	47.94	NO
1900.	.4209E-01	4	8.0	8.1	2560.0	46.08	122.55	49.56	NO
2000.	.4102E-01	4	5.0	5.1	1600.0	67.31	128.96	52.69	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 50. M:

402.	.1147	4	20.0	20.2	6400.0	23.12	29.91	15.85	NO
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DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \cdot LB$

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION PROCEDURE	MAX CONC (UG/M**3)	DIST TO MAX (M)	TERRAIN HT (M)
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SIMPLE TERRAIN	.1147	402.	0.
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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

03/07/07
17:23:09

*** SCREEN3 MODEL RUN ***
*** VERSION DATED 96043 ***

FBR ESMI PoP, PM from Main Stack, Run #3

SIMPLE TERRAIN INPUTS:

SOURCE TYPE = POINT
EMISSION RATE (G/S) = .130000E-01
STACK HEIGHT (M) = 10.7000
STK INSIDE DIAM (M) = 1.4000
STK EXIT VELOCITY (M/S)= 17.9244
STK GAS EXIT TEMP (K) = 462.0000
AMBIENT AIR TEMP (K) = 293.0000
RECEPTOR HEIGHT (M) = .0000
URBAN/RURAL OPTION = RURAL
BUILDING HEIGHT (M) = .0000
MIN HORIZ BLDG DIM (M) = .0000
MAX HORIZ BLDG DIM (M) = .0000

THE REGULATORY (DEFAULT) MIXING HEIGHT OPTION WAS SELECTED.
THE REGULATORY (DEFAULT) ANEMOMETER HEIGHT OF 10.0 METERS WAS
ENTERED.

STACK EXIT VELOCITY WAS CALCULATED FROM
VOLUME FLOW RATE = 58465.000 (ACFM)

BUOY. FLUX = 31.505 M**4/S**3; MOM. FLUX = 99.841 M**4/S**2.

*** FULL METEOROLOGY ***

*** SCREEN AUTOMATED DISTANCES ***

*** TERRAIN HEIGHT OF 0. M ABOVE STACK BASE USED FOR FOLLOWING
DISTANCES ***

DIST (M)	CONC (UG/M**3)	U10M STAB	USTK (M/S)	MIX HT (M)	PLUME HT (M)	SIGMA Y (M)	SIGMA Z (M)	DWASH
50.	.2447E-03	6	1.0	1.0	10000.0	87.64	19.00	18.93 NO
100.	.3116E-02	6	1.0	1.0	10000.0	87.64	22.36	22.11 NO
200.	.4871E-01	4	20.0	20.2	6400.0	23.09	15.75	8.84 NO

300.	.1306	4	20.0	20.2	6400.0	23.09	22.84	12.51	NO
400.	.1496	4	20.0	20.2	6400.0	23.09	29.71	15.75	NO
500.	.1407	4	20.0	20.2	6400.0	23.09	36.37	18.74	NO
600.	.1248	4	20.0	20.2	6400.0	23.09	42.91	21.59	NO
700.	.1141	4	15.0	15.2	4800.0	28.61	49.48	24.63	NO
800.	.1034	4	15.0	15.2	4800.0	28.61	55.83	27.32	NO
900.	.9550E-01	4	10.0	10.1	3200.0	38.90	62.41	30.55	NO
1000.	.9041E-01	4	10.0	10.1	3200.0	38.90	68.60	33.09	NO
1100.	.8446E-01	4	10.0	10.1	3200.0	38.90	74.75	35.06	NO
1200.	.7946E-01	4	8.0	8.1	2560.0	45.95	81.07	37.47	NO
1300.	.7551E-01	4	8.0	8.1	2560.0	45.95	87.10	39.31	NO
1400.	.7163E-01	4	8.0	8.1	2560.0	45.95	93.10	41.11	NO
1500.	.6788E-01	4	8.0	8.1	2560.0	45.95	99.06	42.87	NO
1600.	.6432E-01	4	8.0	8.1	2560.0	45.95	104.98	44.59	NO
1700.	.6095E-01	4	8.0	8.1	2560.0	45.95	110.87	46.28	NO
1800.	.5780E-01	4	8.0	8.1	2560.0	45.95	116.72	47.93	NO
1900.	.5497E-01	4	5.0	5.1	1600.0	67.11	123.19	51.13	NO
2000.	.5357E-01	4	5.0	5.1	1600.0	67.11	128.95	52.68	NO

MAXIMUM 1-HR CONCENTRATION AT OR BEYOND 50. M:

401.	.1496	4	20.0	20.2	6400.0	23.09	29.84	15.82	NO
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DWASH= MEANS NO CALC MADE (CONC = 0.0)

DWASH=NO MEANS NO BUILDING DOWNWASH USED

DWASH=HS MEANS HUBER-SNYDER DOWNWASH USED

DWASH=SS MEANS SCHULMAN-SCIRE DOWNWASH USED

DWASH=NA MEANS DOWNWASH NOT APPLICABLE, $X < 3 \cdot LB$

*** SUMMARY OF SCREEN MODEL RESULTS ***

CALCULATION	MAX CONC	DIST TO	TERRAIN
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PROCEDURE	(UG/M**3)	MAX (M)	HT (M)
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SIMPLE TERRAIN	.1496	401.	0.
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** REMEMBER TO INCLUDE BACKGROUND CONCENTRATIONS **

Appendix G

CPMS Data

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
RUN 1										
2/8/07	09:00:23	789.000	843.000	1625.000	458.000	299.000	32.900	16.842	8.954	-1.315
2/8/07	09:01:23	791.000	834.000	1604.000	428.000	299.000	40.383	18.595	6.847	-1.862
2/8/07	09:02:23	773.000	834.000	1599.000	459.000	297.000	40.255	19.339	9.529	-1.604
2/8/07	09:03:24	785.000	843.000	1606.000	448.000	299.000	41.336	23.687	8.721	-0.669
2/8/07	09:04:24	789.000	834.000	1615.000	459.000	298.000	35.348	24.318	10.172	-0.011
2/8/07	09:05:24	792.000	827.000	1618.000	452.000	298.000	28.816	23.208	19.295	-1.491
2/8/07	09:06:24	791.000	818.000	1616.000	450.000	299.000	31.038	22.813	10.815	-2.011
2/8/07	09:07:24	785.000	816.000	1619.000	449.000	300.000	35.952	23.385	11.427	-1.179
2/8/07	09:08:24	784.000	817.000	1625.000	455.000	300.000	32.021	24.809	7.581	-0.102
2/8/07	09:09:24	789.000	826.000	1629.000	458.000	301.000	33.309	23.944	19.718	-0.123
2/8/07	09:10:24	795.000	839.000	1628.000	455.000	300.000	34.035	23.051	10.307	-0.737
2/8/07	09:11:24	804.000	848.000	1628.000	450.000	300.000	40.634	22.590	9.807	-0.741
2/8/07	09:12:24	799.000	825.000	1621.000	436.000	300.000	40.792	20.899	12.212	-0.008
2/8/07	09:13:24	797.000	832.000	1620.000	454.000	300.000	39.767	22.303	8.224	-0.871
2/8/07	09:14:24	799.000	830.000	1623.000	455.000	301.000	47.195	23.611	16.457	-0.352
2/8/07	09:15:24	798.000	822.000	1630.000	457.000	300.000	32.528	24.261	18.176	-1.235
2/8/07	09:16:24	792.000	814.000	1629.000	455.000	301.000	32.943	24.419	7.547	-0.003
2/8/07	09:17:24	787.000	813.000	1631.000	449.000	301.000	34.188	24.152	6.383	-0.002
2/8/07	09:18:24	786.000	812.000	1633.000	450.000	302.000	35.708	24.490	3.068	-1.565
2/8/07	09:19:24	790.000	819.000	1638.000	453.000	302.000	35.641	25.534	12.777	-0.008
2/8/07	09:20:24	798.000	834.000	1643.000	461.000	302.000	38.137	24.385	10.761	-0.005
2/8/07	09:21:24	804.000	840.000	1649.000	453.000	303.000	36.874	23.438	5.829	-0.695
2/8/07	09:22:24	811.000	843.000	1657.000	453.000	303.000	39.443	23.561	12.868	-0.909
2/8/07	09:23:24	819.000	855.000	1660.000	450.000	303.000	36.147	22.958	7.858	-1.315
2/8/07	09:24:24	826.000	864.000	1661.000	451.000	303.000	37.930	22.664	11.559	-0.251
2/8/07	09:25:24	834.000	864.000	1664.000	456.000	304.000	32.192	21.177	9.221	-0.357
2/8/07	09:26:24	836.000	868.000	1673.000	448.000	304.000	30.715	22.342	4.310	-0.708
2/8/07	09:27:24	839.000	871.000	1675.000	447.000	304.000	35.226	21.501	12.401	0.000
2/8/07	09:28:25	839.000	868.000	1675.000	454.000	304.000	34.914	20.670	6.782	-0.443
2/8/07	09:29:25	838.000	867.000	1677.000	452.000	304.000	36.745	20.705	7.757	-0.744
2/8/07	09:30:25	835.000	865.000	1679.000	453.000	305.000	36.098	20.541	4.076	-0.321
2/8/07	09:31:25	838.000	867.000	1677.000	453.000	305.000	35.653	21.282	4.198	-1.182
2/8/07	09:32:25	838.000	871.000	1675.000	463.000	305.000	31.984	21.327	14.830	-0.673
2/8/07	09:33:25	835.000	866.000	1672.000	448.000	306.000	37.667	21.205	4.841	-0.008
2/8/07	09:34:25	830.000	855.000	1671.000	451.000	305.000	37.478	21.239	11.846	-2.199
2/8/07	09:35:25	822.000	846.000	1670.000	453.000	306.000	41.909	20.855	7.358	-0.965
2/8/07	09:36:25	815.000	839.000	1657.000	446.000	306.000	39.596	20.931	8.322	-1.084
2/8/07	09:37:25	810.000	835.000	1639.000	449.000	306.000	38.906	21.236	3.034	-1.355
2/8/07	09:38:25	807.000	834.000	1626.000	445.000	305.000	40.273	22.884	5.497	-0.214
2/8/07	09:39:25	800.000	824.000	1616.000	444.000	305.000	39.614	25.122	8.366	-0.004
2/8/07	09:40:25	792.000	814.000	1609.000	439.000	306.000	38.711	27.485	6.539	-1.003
2/8/07	09:41:25	786.000	808.000	1605.000	443.000	305.000	34.395	29.782	8.501	-0.010
2/8/07	09:42:25	786.000	811.000	1600.000	447.000	305.000	36.196	31.870	5.883	-2.141
2/8/07	09:43:25	787.000	817.000	1597.000	456.000	305.000	34.817	33.558	10.341	-0.003
2/8/07	09:44:25	793.000	826.000	1599.000	443.000	305.000	36.092	34.091	12.645	-1.092
2/8/07	09:45:25	801.000	837.000	1606.000	449.000	306.000	45.840	35.514	10.740	-0.568
2/8/07	09:46:25	809.000	848.000	1606.000	457.000	306.000	39.260	34.130	6.948	-0.784
2/8/07	09:47:25	814.000	853.000	1605.000	445.000	306.000	38.113	32.050	16.545	-1.188
2/8/07	09:48:25	817.000	853.000	1608.000	457.000	307.000	37.844	30.811	4.689	-0.003
2/8/07	09:49:25	816.000	846.000	1609.000	451.000	307.000	34.054	31.562	12.469	-0.936

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	09:50:25	812.000	835.000	1610.000	450.000	307.000	40.042	31.586	8.799	-0.003
2/8/07	09:51:25	801.000	827.000	1608.000	447.000	306.000	37.618	32.178	8.755	-0.003
2/8/07	09:52:25	792.000	813.000	1625.000	454.000	306.000	36.642	33.375	7.246	-0.158
2/8/07	09:53:25	784.000	808.000	1635.000	450.000	306.000	40.670	33.890	6.228	-1.290
2/8/07	09:54:26	779.000	809.000	1643.000	454.000	306.000	34.066	30.923	10.250	-1.171
2/8/07	09:55:26	778.000	812.000	1649.000	454.000	307.000	35.415	29.581	3.491	-0.211
2/8/07	09:56:26	778.000	811.000	1653.000	456.000	307.000	36.404	29.201	6.894	-0.691
2/8/07	09:57:26	778.000	813.000	1652.000	456.000	307.000	32.314	27.182	11.691	-0.404
2/8/07	09:58:26	780.000	813.000	1651.000	458.000	307.000	33.034	27.160	11.126	-0.697
2/8/07	09:59:26	778.000	804.000	1650.000	452.000	307.000	36.819	27.646	11.204	-1.464
2/8/07	10:00:26	772.000	799.000	1656.000	451.000	307.000	38.326	28.133	5.162	-0.521
2/8/07	10:01:26	773.000	808.000	1659.000	457.000	307.000	37.203	29.902	11.160	0.000
2/8/07	10:02:26	779.000	820.000	1664.000	461.000	308.000	39.517	28.337	3.078	-1.921
2/8/07	10:03:26	789.000	829.000	1668.000	452.000	308.000	38.094	26.732	10.784	-1.017
2/8/07	10:04:26	799.000	839.000	1670.000	457.000	308.000	38.033	27.061	14.198	-0.007
2/8/07	10:05:26	806.000	844.000	1662.000	464.000	309.000	38.223	27.178	6.948	-0.816
2/8/07	10:06:26	813.000	848.000	1652.000	457.000	310.000	34.945	26.651	3.735	-1.670
2/8/07	10:07:26	816.000	847.000	1648.000	455.000	310.000	38.882	27.408	10.172	0.000
2/8/07	10:08:26	816.000	846.000	1652.000	451.000	310.000	31.411	27.166	6.738	-0.257
2/8/07	10:09:26	816.000	846.000	1661.000	453.000	310.000	38.619	26.994	3.555	-1.225
2/8/07	10:10:26	816.000	847.000	1669.000	449.000	309.000	39.382	28.191	5.406	-0.003
2/8/07	10:11:26	818.000	849.000	1652.000	467.000	310.000	39.034	29.835	13.545	0.000
2/8/07	10:12:26	816.000	846.000	1634.000	458.000	311.000	33.034	30.535	5.385	-0.556
2/8/07	10:13:26	815.000	848.000	1634.000	445.000	311.000	37.936	29.879	12.611	0.000
2/8/07	10:14:26	816.000	857.000	1645.000	441.000	310.000	36.880	31.147	11.204	-0.005
2/8/07	10:15:27	820.000	867.000	1658.000	452.000	309.000	36.361	30.873	6.782	-0.492
2/8/07	10:16:27	828.000	868.000	1654.000	453.000	309.000	32.186	28.925	6.583	-1.226
2/8/07	10:17:27	830.000	871.000	1639.000	446.000	309.000	35.940	27.431	9.918	-0.532
2/8/07	10:18:27	830.000	867.000	1625.000	449.000	308.000	35.226	27.739	5.118	-0.006
2/8/07	10:19:27	827.000	857.000	1616.000	435.000	307.000	31.203	29.817	6.738	-0.001
2/8/07	10:20:27	818.000	850.000	1608.000	446.000	307.000	28.481	32.729	7.669	-0.600
2/8/07	10:21:27	811.000	840.000	1608.000	440.000	306.000	34.151	33.729	7.192	-0.003
2/8/07	10:22:27	806.000	832.000	1613.000	447.000	305.000	38.369	35.990	16.237	-1.922
2/8/07	10:23:27	804.000	836.000	1612.000	446.000	305.000	31.716	36.280	16.160	-1.032
2/8/07	10:24:27	803.000	838.000	1610.000	449.000	305.000	35.903	35.131	7.479	-0.285
2/8/07	10:25:27	804.000	843.000	1608.000	448.000	305.000	31.002	36.022	7.182	-1.514
2/8/07	10:26:27	807.000	846.000	1604.000	447.000	305.000	35.360	35.881	12.202	-0.422
2/8/07	10:27:27	808.000	846.000	1596.000	445.000	306.000	35.744	36.736	5.396	-0.971
2/8/07	10:28:27	803.000	840.000	1592.000	455.000	305.000	37.692	38.082	11.403	-0.581
2/8/07	10:29:27	800.000	835.000	1592.000	452.000	305.000	35.415	38.740	9.008	-0.227
2/8/07	10:30:27	796.000	824.000	1590.000	450.000	305.000	39.700	40.595	15.561	0.000
2/8/07	10:31:27	788.000	815.000	1592.000	450.000	305.000	37.862	39.122	7.922	-2.170
2/8/07	10:32:27	780.000	807.000	1605.000	456.000	305.000	38.528	41.817	15.527	-1.047
2/8/07	10:33:27	775.000	803.000	1614.000	455.000	305.000	35.305	41.286	7.567	-0.002
2/8/07	10:34:27	770.000	800.000	1615.000	448.000	306.000	36.629	39.681	12.168	-0.005
2/8/07	10:35:27	767.000	798.000	1612.000	434.000	305.000	39.034	36.590	14.417	-0.638
2/8/07	10:36:27	764.000	799.000	1613.000	456.000	305.000	40.054	36.308	9.330	-1.172
2/8/07	10:37:27	765.000	804.000	1619.000	442.000	305.000	33.584	37.183	11.813	-0.533
2/8/07	10:38:27	768.000	805.000	1625.000	445.000	304.000	37.392	38.253	10.463	-1.189
2/8/07	10:39:27	770.000	806.000	1659.000	432.000	302.000	33.101	37.027	6.481	-0.006
2/8/07	10:40:27	775.000	815.000	1648.000	454.000	303.000	38.741	34.770	7.946	-0.226

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	10:41:27	781.000	813.000	1640.000	449.000	304.000	40.597	33.033	8.345	-0.008
2/8/07	10:42:27	778.000	799.000	1634.000	454.000	304.000	30.306	33.333	6.096	-0.012
2/8/07	10:43:27	775.000	796.000	1627.000	466.000	305.000	33.077	36.755	6.038	-0.602
2/8/07	10:44:27	783.000	824.000	1630.000	453.000	306.000	35.421	36.477	3.623	-0.021
2/8/07	10:45:27	799.000	848.000	1632.000	460.000	307.000	38.277	35.996	17.012	-1.114
2/8/07	10:46:27	812.000	861.000	1631.000	454.000	306.000	37.795	36.746	18.308	-0.602
2/8/07	10:47:27	819.000	866.000	1627.000	452.000	307.000	36.617	34.851	7.303	-1.363
2/8/07	10:48:27	822.000	864.000	1627.000	451.000	307.000	36.684	36.024	8.788	0.000
2/8/07	10:49:28	820.000	855.000	1634.000	455.000	308.000	43.466	35.067	9.198	-1.291
2/8/07	10:50:28	816.000	846.000	1636.000	450.000	308.000	38.107	36.331	3.180	-0.011
2/8/07	10:51:28	811.000	844.000	1627.000	450.000	308.000	43.808	36.251	6.437	-0.009
2/8/07	10:52:28	808.000	843.000	1617.000	450.000	308.000	39.224	36.115	3.647	-0.005
2/8/07	10:53:28	806.000	844.000	1607.000	456.000	308.000	35.604	38.376	8.589	-0.029
2/8/07	10:54:28	805.000	844.000	1606.000	442.000	308.000	36.178	39.950	6.228	-0.967
2/8/07	10:55:28	805.000	845.000	1601.000	451.000	308.000	36.758	43.867	7.347	-2.008
2/8/07	10:56:28	805.000	845.000	1598.000	453.000	308.000	43.185	41.767	2.172	-0.634
2/8/07	10:57:28	802.000	844.000	1596.000	447.000	308.000	37.643	43.770	7.479	-0.398
2/8/07	10:58:28	800.000	838.000	1595.000	445.000	308.000	37.392	45.784	10.108	-0.925
2/8/07	10:59:28	798.000	837.000	1593.000	450.000	308.000	34.933	45.638	10.794	-0.292
2/8/07	11:00:28	795.000	836.000	1591.000	452.000	308.000	35.696	46.080	11.924	-0.010
2/8/07	11:01:28	793.000	836.000	1592.000	456.000	309.000	36.929	46.932	19.062	-0.022
2/8/07	11:02:28	792.000	838.000	1592.000	449.000	309.000	37.447	46.587	14.407	-0.008
2/8/07	11:03:28	788.000	832.000	1621.000	461.000	309.000	33.693	47.749	4.753	-0.965
2/8/07	11:04:28	782.000	827.000	1634.000	452.000	309.000	32.277	45.506	8.964	-0.192
2/8/07	11:05:28	779.000	827.000	1643.000	453.000	310.000	38.326	42.774	13.619	-0.008
2/8/07	11:06:28	779.000	833.000	1642.000	459.000	310.000	37.862	41.133	16.413	-0.177
2/8/07	11:07:28	781.000	837.000	1641.000	455.000	310.000	32.338	39.804	15.926	-0.881
2/8/07	11:08:28	783.000	840.000	1650.000	452.000	310.000	39.626	38.392	8.000	-1.771
2/8/07	11:09:28	784.000	839.000	1656.000	456.000	310.000	38.192	37.320	16.170	-1.378
2/8/07	11:10:28	784.000	840.000	1653.000	447.000	309.000	38.210	36.730	7.459	-0.345
2/8/07	11:11:28	781.000	828.000	1651.000	456.000	309.000	38.809	36.107	6.925	0.000
2/8/07	11:12:28	774.000	818.000	1640.000	443.000	309.000	40.096	36.177	7.615	0.000
2/8/07	11:13:28	765.000	810.000	1622.000	461.000	309.000	36.941	39.685	11.048	0.000
2/8/07	11:14:28	759.000	807.000	1608.000	447.000	309.000	37.905	41.537	3.467	-0.065
2/8/07	11:15:28	755.000	808.000	1599.000	448.000	309.000	44.363	46.130	13.775	-1.368
2/8/07	11:16:28	752.000	806.000	1595.000	446.000	310.000	41.140	49.848	10.006	-0.081
2/8/07	11:17:28	748.000	805.000	1600.000	447.000	309.000	37.112	51.660	14.086	-0.367
2/8/07	11:18:28	745.000	797.000	1601.000	449.000	308.000	37.887	50.217	8.998	-0.149
2/8/07	11:19:28	741.000	795.000	1599.000	449.000	308.000	42.941	48.076	5.230	-1.412
2/8/07	11:20:29	740.000	794.000	1598.000	446.000	309.000	41.995	49.941	14.928	-0.412
2/8/07	11:21:29	739.000	797.000	1600.000	448.000	308.000	44.326	49.164	3.322	-1.005
2/8/07	11:22:29	740.000	800.000	1598.000	453.000	308.000	43.435	49.524	12.912	-0.378
2/8/07	11:23:29	742.000	803.000	1596.000	454.000	308.000	47.793	48.419	17.455	-1.115
2/8/07	11:24:29	745.000	805.000	1594.000	445.000	308.000	39.877	49.643	8.467	-0.920
2/8/07	11:25:29	744.000	801.000	1618.000	451.000	307.000	32.155	51.709	13.545	-0.992
2/8/07	11:26:29	740.000	797.000	1634.000	454.000	308.000	37.179	50.883	8.721	-0.457
2/8/07	11:27:29	737.000	792.000	1645.000	457.000	310.000	35.610	48.385	7.513	-0.264
2/8/07	11:28:29	739.000	798.000	1651.000	452.000	309.000	34.304	45.328	2.913	-0.079
2/8/07	11:29:29	747.000	812.000	1657.000	455.000	310.000	34.810	43.040	10.994	-1.819
2/8/07	11:30:29	756.000	823.000	1664.000	450.000	311.000	32.033	40.393	9.465	-0.837
2/8/07	11:31:29	765.000	831.000	1674.000	457.000	309.000	41.879	41.265	12.712	-0.070

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	11:32:29	774.000	834.000	1685.000	457.000	310.000	38.479	40.641	4.675	-0.452
2/8/07	11:33:29	783.000	845.000	1679.000	455.000	310.000	37.441	40.517	4.310	-0.897
2/8/07	11:34:29	792.000	855.000	1660.000	452.000	310.000	32.796	40.111	3.623	-0.789
2/8/07	11:35:29	798.000	859.000	1651.000	452.000	310.000	38.357	39.950	15.351	-0.373
2/8/07	11:36:29	804.000	860.000	1649.000	458.000	311.000	28.511	40.263	3.711	-1.394
2/8/07	11:37:29	810.000	863.000	1633.000	449.000	311.000	35.280	42.522	6.992	-1.812
2/8/07	11:38:29	813.000	863.000	1621.000	448.000	310.000	38.192	44.107	2.902	-0.011
2/8/07	11:39:29	812.000	862.000	1619.000	446.000	309.000	35.647	45.563	11.315	-0.590
2/8/07	11:40:29	811.000	856.000	1615.000	448.000	309.000	40.896	46.893	10.906	-1.050
2/8/07	11:41:29	813.000	857.000	1613.000	444.000	309.000	30.593	46.787	7.381	-1.331
2/8/07	11:42:29	815.000	864.000	1612.000	451.000	308.000	37.496	48.733	10.317	-2.029
2/8/07	11:43:29	815.000	863.000	1608.000	450.000	308.000	40.096	49.043	18.186	0.000
2/8/07	11:44:29	814.000	861.000	1604.000	451.000	308.000	36.971	50.413	12.104	-2.502
2/8/07	11:45:29	812.000	856.000	1603.000	445.000	308.000	34.774	50.812	10.605	-1.346
2/8/07	11:46:29	809.000	849.000	1602.000	450.000	308.000	38.400	52.542	7.835	-0.331
2/8/07	11:47:29	804.000	843.000	1599.000	450.000	309.000	38.668	52.571	5.331	-0.926
2/8/07	11:48:29	799.000	843.000	1611.000	454.000	309.000	34.872	53.898	7.124	-0.270
2/8/07	11:49:29	798.000	846.000	1619.000	457.000	308.000	36.349	55.858	3.078	-1.339
2/8/07	11:50:29	796.000	840.000	1624.000	454.000	308.000	31.978	53.818	12.401	-1.538
2/8/07	11:51:29	789.000	831.000	1627.000	458.000	309.000	40.231	50.343	7.922	-0.002
2/8/07	11:52:30	781.000	823.000	1632.000	448.000	309.000	43.435	49.718	7.780	-2.438
2/8/07	11:53:30	775.000	821.000	1636.000	453.000	309.000	35.793	50.353	10.405	-0.003
2/8/07	11:54:30	773.000	825.000	1633.000	452.000	309.000	38.369	50.450	9.898	-0.005
2/8/07	11:55:30	769.000	817.000	1630.000	456.000	308.000	38.381	49.212	14.597	-2.040
2/8/07	11:56:30	760.000	803.000	1626.000	449.000	308.000	31.826	49.379	7.537	-0.003
2/8/07	11:57:30	753.000	798.000	1627.000	453.000	308.000	34.444	49.497	7.547	-0.408
2/8/07	11:58:30	746.000	797.000	1634.000	456.000	308.000	34.426	51.519	6.072	-0.061
2/8/07	11:59:30	747.000	804.000	1635.000	449.000	307.000	43.100	52.374	4.489	-1.384
2/8/07	12:00:30	748.000	809.000	1634.000	451.000	307.000	35.262	50.439	10.872	-0.821
2/8/07	12:01:30	749.000	807.000	1639.000	451.000	308.000	35.982	49.825	4.854	-1.237
2/8/07	12:02:31	751.000	804.000	1647.000	455.000	308.000	38.528	50.039	10.074	0.000
2/8/07	12:03:31	756.000	810.000	1650.000	458.000	308.000	36.617	49.015	9.397	-0.833
2/8/07	12:04:31	766.000	826.000	1655.000	448.000	308.000	37.533	46.940	4.655	-0.702
2/8/07	12:05:31	774.000	835.000	1662.000	451.000	308.000	35.989	47.245	3.180	-1.034
2/8/07	12:06:31	785.000	846.000	1664.000	454.000	307.000	39.718	47.374	7.980	-0.010
2/8/07	12:07:31	795.000	854.000	1661.000	457.000	308.000	38.570	45.711	2.970	-0.001
2/8/07	12:08:31	801.000	858.000	1663.000	446.000	307.000	39.102	45.337	11.637	-0.313
2/8/07	12:09:31	805.000	859.000	1657.000	442.000	307.000	39.266	45.821	8.389	-0.896
2/8/07	12:10:31	811.000	863.000	1648.000	453.000	307.000	38.998	45.470	6.870	-1.889
2/8/07	12:11:31	812.000	868.000	1644.000	449.000	307.000	42.630	46.127	7.002	-0.010
2/8/07	12:12:31	810.000	862.000	1645.000	453.000	307.000	40.072	47.629	5.054	-0.007
2/8/07	12:13:31	808.000	859.000	1642.000	452.000	307.000	36.123	48.126	8.954	-1.569
2/8/07	12:14:31	806.000	858.000	1637.000	448.000	307.000	37.545	48.010	5.118	-0.868
2/8/07	12:15:31	804.000	856.000	1637.000	442.000	307.000	41.220	49.195	9.874	0.000
2/8/07	12:16:31	800.000	850.000	1639.000	446.000	307.000	40.408	49.752	8.944	-0.284
2/8/07	12:17:31	796.000	843.000	1637.000	453.000	307.000	39.456	48.680	11.759	0.000
2/8/07	12:18:31	789.000	832.000	1630.000	447.000	307.000	41.848	49.769	7.036	-0.331
2/8/07	12:19:31	783.000	820.000	1629.000	448.000	307.000	42.800	51.370	10.341	-2.302
2/8/07	12:20:31	777.000	815.000	1631.000	453.000	308.000	41.384	50.433	3.711	-1.222
2/8/07	12:21:31	775.000	813.000	1629.000	438.000	307.000	39.712	51.023	10.916	0.000
2/8/07	12:22:31	772.000	814.000	1625.000	446.000	307.000	41.470	51.475	10.893	-0.008

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	12:23:31	771.000	816.000	1624.000	454.000	307.000	40.066	53.133	10.585	-0.458
2/8/07	12:24:31	772.000	816.000	1642.000	444.000	307.000	43.826	53.816	11.968	-0.009
2/8/07	12:25:31	775.000	824.000	1650.000	453.000	307.000	39.999	53.585	6.160	-0.661
2/8/07	12:26:31	778.000	830.000	1654.000	450.000	307.000	41.183	50.817	3.677	-0.571
2/8/07	12:27:31	784.000	842.000	1659.000	455.000	308.000	45.022	50.368	11.782	0.000
2/8/07	12:28:31	783.000	834.000	1661.000	453.000	308.000	42.971	48.854	6.018	-1.177
2/8/07	12:29:31	779.000	827.000	1643.000	451.000	308.000	38.711	48.126	5.429	-0.005
2/8/07	12:30:31	770.000	815.000	1643.000	452.000	307.000	40.908	50.585	2.405	-0.009
2/8/07	12:31:31	760.000	804.000	1664.000	452.000	307.000	38.192	52.410	10.405	0.000
2/8/07	12:32:31	755.000	806.000	1632.000	448.000	307.000	38.821	53.055	9.265	0.000
2/8/07	12:33:32	754.000	811.000	1659.000	455.000	307.000	39.004	51.310	12.645	-1.191
2/8/07	12:34:32	757.000	819.000	1649.000	447.000	308.000	40.646	54.417	7.659	-0.002
2/8/07	12:35:32	763.000	829.000	1643.000	454.000	307.000	46.078	51.778	4.509	-0.012
2/8/07	12:36:32	769.000	835.000	1658.000	450.000	308.000	36.092	52.652	8.599	-0.006
2/8/07	12:37:32	769.000	833.000	1655.000	460.000	308.000	41.397	51.165	4.110	-0.001
2/8/07	12:38:32	767.000	829.000	1646.000	452.000	309.000	40.127	50.314	7.381	-0.224
2/8/07	12:39:32	763.000	825.000	1646.000	450.000	309.000	36.489	50.806	5.064	-0.138
2/8/07	12:40:32	761.000	821.000	1647.000	449.000	309.000	37.423	52.037	8.531	-1.062
2/8/07	12:41:32	761.000	829.000	1642.000	453.000	309.000	41.891	52.364	12.357	-0.701
2/8/07	12:42:32	763.000	831.000	1652.000	446.000	309.000	43.667	51.985	6.573	-0.005
2/8/07	12:43:32	763.000	825.000	1664.000	447.000	309.000	42.379	51.547	6.448	-0.857
2/8/07	12:44:32	766.000	830.000	1654.000	450.000	309.000	33.608	50.480	7.868	-1.817
2/8/07	12:45:32	771.000	838.000	1643.000	446.000	309.000	47.043	48.612	6.738	-1.027
2/8/07	12:46:32	775.000	841.000	1644.000	442.000	309.000	31.618	50.079	6.958	-0.421
2/8/07	12:47:32	782.000	848.000	1646.000	449.000	309.000	35.818	52.558	6.772	-0.004
2/8/07	12:48:32	790.000	856.000	1640.000	444.000	309.000	44.455	52.091	7.246	-0.005
2/8/07	12:49:32	786.000	851.000	1648.000	462.000	308.000	38.644	51.642	4.509	-0.105
2/8/07	12:50:32	789.000	858.000	1660.000	449.000	309.000	36.892	51.804	3.877	-0.209
2/8/07	12:51:32	788.000	856.000	1648.000	445.000	309.000	37.453	53.200	7.723	-1.377
2/8/07	12:52:32	787.000	856.000	1640.000	453.000	309.000	37.466	49.402	5.619	-0.005
2/8/07	12:53:32	787.000	858.000	1660.000	447.000	309.000	35.757	50.929	9.299	-1.307
2/8/07	12:54:32	787.000	860.000	1647.000	442.000	309.000	38.705	51.983	10.585	-0.268
2/8/07	12:55:32	786.000	857.000	1638.000	455.000	308.000	41.586	51.861	11.160	-0.002
2/8/07	12:56:32	780.000	845.000	1654.000	454.000	309.000	40.536	52.245	4.178	-0.911
2/8/07	12:57:32	774.000	837.000	1660.000	446.000	309.000	41.274	54.080	6.038	-0.005
2/8/07	12:58:32	767.000	829.000	1651.000	453.000	308.000	38.784	53.069	11.857	-0.302
2/8/07	12:59:32	763.000	828.000	1648.000	452.000	308.000	37.020	50.487	8.545	-0.001
2/8/07	13:00:32	762.000	833.000	1647.000	453.000	308.000	39.871	51.184	5.318	-0.001
2/8/07	13:01:32	767.000	841.000	1645.000	451.000	308.000	37.795	52.333	6.695	0.000
2/8/07	13:02:32	773.000	849.000	1641.000	450.000	308.000	44.742	52.957	8.667	-1.369
2/8/07	13:03:32	775.000	847.000	1645.000	454.000	307.000	43.112	52.942	9.485	-1.999
2/8/07	13:04:32	773.000	836.000	1653.000	451.000	308.000	41.207	53.229	15.338	-0.971
2/8/07	13:05:32	768.000	828.000	1659.000	458.000	308.000	36.349	52.497	16.291	-1.016
2/8/07	13:06:33	767.000	829.000	1640.000	440.000	308.000	35.738	53.144	12.668	-1.987
2/8/07	13:07:33	769.000	832.000	1655.000	452.000	307.000	37.527	52.928	8.068	-2.196
2/8/07	13:08:33	772.000	832.000	1654.000	444.000	307.000	40.530	54.650	15.239	-1.537
2/8/07	13:09:33	775.000	834.000	1645.000	451.000	307.000	43.051	54.070	8.677	-0.449
2/8/07	13:10:33	777.000	836.000	1642.000	451.000	307.000	40.518	53.823	4.032	-1.695
2/8/07	13:11:33	781.000	841.000	1650.000	460.000	308.000	38.003	53.545	10.727	-1.508
2/8/07	13:12:33	787.000	852.000	1660.000	455.000	308.000	42.770	54.180	7.878	-0.963
2/8/07	13:13:33	791.000	858.000	1648.000	442.000	308.000	37.887	52.610	7.435	-0.009

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	13:14:33	793.000	852.000	1640.000	453.000	308.000	39.987	52.556	11.336	-1.019
2/8/07	13:15:33	791.000	843.000	1654.000	453.000	309.000	40.066	54.183	9.797	-0.077
2/8/07	13:16:33	787.000	838.000	1662.000	453.000	308.000	42.465	54.748	2.371	-0.003
2/8/07	13:17:33	784.000	838.000	1651.000	453.000	309.000	42.587	54.593	3.078	-1.195
2/8/07	13:18:33	785.000	843.000	1643.000	451.000	309.000	34.206	52.131	9.499	-0.830
2/8/07	13:19:33	785.000	836.000	1641.000	442.000	309.000	41.903	53.917	12.455	-1.770
2/8/07	13:20:33	781.000	834.000	1651.000	451.000	310.000	43.594	57.070	2.405	-0.002
2/8/07	13:21:33	782.000	839.000	1654.000	458.000	310.000	35.793	55.355	7.303	-0.002
2/8/07	13:22:33	784.000	841.000	1658.000	450.000	310.000	38.912	54.451	15.151	-1.220
2/8/07	13:23:33	783.000	841.000	1650.000	448.000	310.000	37.881	55.241	9.942	0.000
2/8/07	13:24:33	784.000	838.000	1645.000	455.000	310.000	43.441	53.941	9.052	-0.764
2/8/07	13:25:33	783.000	839.000	1639.000	445.000	309.000	38.955	55.233	7.703	-1.270
2/8/07	13:26:33	782.000	839.000	1643.000	451.000	310.000	39.187	55.862	18.209	-0.067
2/8/07	13:27:33	783.000	835.000	1651.000	449.000	310.000	37.496	57.254	6.160	-0.665
2/8/07	13:28:33	780.000	833.000	1661.000	449.000	309.000	38.857	56.437	8.657	-0.001
2/8/07	13:29:33	779.000	838.000	1641.000	437.000	310.000	39.150	54.540	2.957	-1.343
2/8/07	13:30:33	779.000	831.000	1650.000	451.000	309.000	40.884	54.072	8.744	-0.003
2/8/07	13:31:33	776.000	827.000	1661.000	453.000	310.000	42.343	58.316	8.667	-0.473
2/8/07	13:32:33	778.000	834.000	1652.000	447.000	310.000	40.389	55.581	8.088	0.000
2/8/07	13:33:33	784.000	843.000	1646.000	452.000	310.000	40.139	53.700	19.008	-0.582
2/8/07	13:34:33	793.000	851.000	1643.000	448.000	310.000	42.355	55.948	13.189	-1.280
2/8/07	13:35:33	794.000	838.000	1640.000	441.000	310.000	45.431	55.140	7.094	-0.003
2/8/07	13:36:33	786.000	831.000	1654.000	450.000	310.000	39.309	57.353	8.579	-0.365
2/8/07	13:37:33	787.000	835.000	1659.000	458.000	310.000	38.906	60.135	13.267	-0.910
2/8/07	13:38:33	793.000	846.000	1652.000	453.000	311.000	42.410	54.491	15.094	-0.265
2/8/07	13:39:34	796.000	847.000	1639.000	444.000	311.000	39.993	55.688	8.058	0.000
2/8/07	13:40:34	786.000	830.000	1643.000	453.000	309.000	45.260	55.839	16.525	-0.002
2/8/07	13:41:34	784.000	841.000	1658.000	454.000	310.000	43.509	61.669	15.459	-0.872
2/8/07	13:42:34	783.000	839.000	1658.000	449.000	310.000	46.768	58.977	9.753	-0.071
2/8/07	13:43:34	778.000	832.000	1652.000	457.000	310.000	39.663	55.891	21.291	-0.007
2/8/07	13:44:34	777.000	837.000	1639.000	445.000	310.000	38.870	54.923	8.876	-1.023
2/8/07	13:45:34	775.000	837.000	1638.000	461.000	310.000	41.769	57.021	9.441	-0.002
2/8/07	13:46:34	770.000	827.000	1648.000	462.000	310.000	37.051	59.440	4.110	-0.413
2/8/07	13:47:34	765.000	820.000	1656.000	454.000	310.000	42.636	60.910	10.419	-0.726
2/8/07	13:48:34	763.000	821.000	1655.000	462.000	310.000	34.249	58.461	15.814	-0.558
2/8/07	13:49:34	766.000	829.000	1654.000	457.000	310.000	41.598	57.419	19.992	-0.904
2/8/07	13:50:34	773.000	839.000	1657.000	460.000	310.000	38.705	57.986	11.072	-0.450
2/8/07	13:51:34	779.000	845.000	1640.000	444.000	310.000	40.481	57.086	12.012	-0.974
2/8/07	13:52:34	785.000	843.000	1650.000	445.000	309.000	43.277	57.479	6.715	-0.006
2/8/07	13:53:34	784.000	840.000	1655.000	442.000	308.000	38.632	60.440	17.976	-2.205
2/8/07	13:54:34	779.000	836.000	1637.000	447.000	307.000	42.349	58.305	14.928	-1.322
2/8/07	13:55:34	776.000	830.000	1646.000	449.000	306.000	43.380	58.494	18.842	-0.007
2/8/07	13:56:34	775.000	832.000	1660.000	451.000	307.000	37.869	60.616	10.771	-1.161
2/8/07	13:57:34	775.000	838.000	1651.000	447.000	307.000	39.926	58.989	10.916	-0.339
2/8/07	13:58:34	783.000	847.000	1637.000	452.000	306.000	38.381	57.287	2.970	-0.571
2/8/07	13:59:34	786.000	846.000	1657.000	451.000	307.000	40.512	57.935	9.698	-0.397
2/8/07	14:00:34	783.000	840.000	1650.000	445.000	306.000	43.106	61.408	15.060	-0.003
2/8/07	14:01:34	779.000	835.000	1632.000	450.000	306.000	42.141	58.542	7.445	-0.371
2/8/07	14:02:34	778.000	836.000	1668.000	459.000	306.000	43.356	60.258	14.373	-1.517
2/8/07	14:03:34	783.000	843.000	1637.000	449.000	307.000	39.956	62.728	12.767	-0.012
2/8/07	14:04:34	786.000	840.000	1649.000	457.000	307.000	43.368	58.281	7.845	-1.990

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	14:05:34	782.000	834.000	1659.000	444.000	307.000	38.888	60.735	8.180	0.000
2/8/07	14:06:34	780.000	837.000	1654.000	462.000	307.000	40.402	60.941	6.681	-0.001
2/8/07	14:07:34	783.000	841.000	1648.000	453.000	307.000	41.690	60.431	2.737	-0.511
2/8/07	14:08:34	788.000	845.000	1645.000	448.000	307.000	42.129	59.309	6.262	-0.007
2/8/07	14:09:35	788.000	841.000	1639.000	444.000	307.000	37.869	60.204	8.677	-1.772
2/8/07	14:10:35	783.000	834.000	1645.000	452.000	306.000	37.154	61.603	6.481	-0.783
2/8/07	14:11:35	782.000	836.000	1653.000	456.000	307.000	38.845	60.727	10.128	-0.813
2/8/07	14:12:35	782.000	840.000	1660.000	456.000	307.000	37.008	61.686	6.495	-0.166
2/8/07	14:13:35	788.000	845.000	1636.000	437.000	306.000	37.984	59.944	7.046	-0.001
2/8/07	14:14:35	787.000	838.000	1647.000	448.000	305.000	38.351	60.848	10.615	-1.170
2/8/07	14:15:35	781.000	841.000	1651.000	457.000	304.000	42.233	62.657	16.014	-1.984
2/8/07	14:16:35	775.000	835.000	1651.000	446.000	305.000	44.699	64.617	11.870	-1.901
2/8/07	14:17:35	767.000	837.000	1653.000	466.000	304.000	39.297	63.399	12.378	-0.242
2/8/07	14:18:35	770.000	845.000	1662.000	444.000	305.000	41.836	64.677	12.834	-1.092
2/8/07	14:19:35	763.000	828.000	1629.000	436.000	303.000	36.770	62.240	11.004	-1.230
2/8/07	14:20:35	758.000	827.000	1664.000	454.000	303.000	37.521	62.487	3.954	-0.171
2/8/07	14:21:35	753.000	820.000	1648.000	451.000	304.000	40.414	64.771	7.425	-0.003
2/8/07	14:22:35	752.000	822.000	1639.000	446.000	304.000	41.287	60.382	12.699	-0.676
2/8/07	14:23:35	757.000	836.000	1654.000	450.000	304.000	43.069	62.534	17.046	-0.064
2/8/07	14:24:35	759.000	838.000	1659.000	460.000	304.000	38.155	62.649	3.467	-0.005
2/8/07	14:25:35	763.000	841.000	1643.000	450.000	305.000	42.379	59.467	8.609	-0.002
2/8/07	14:26:35	768.000	845.000	1647.000	453.000	306.000	39.010	59.312	5.906	-0.921
2/8/07	14:27:35	770.000	842.000	1665.000	442.000	305.000	40.499	62.046	4.509	-0.828
2/8/07	14:28:35	769.000	843.000	1646.000	448.000	305.000	33.370	60.963	6.948	-0.007
2/8/07	14:29:35	766.000	841.000	1635.000	456.000	305.000	39.144	60.180	12.202	-0.691
2/8/07	14:30:35	759.000	830.000	1655.000	452.000	305.000	36.727	63.800	9.607	-0.374
2/8/07	14:31:35	759.000	839.000	1650.000	447.000	305.000	36.507	65.666	14.164	-0.003
2/8/07	14:32:35	761.000	842.000	1637.000	458.000	304.000	36.361	60.890	8.765	-0.707
2/8/07	14:33:35	759.000	838.000	1656.000	462.000	305.000	43.563	61.310	4.266	-0.755
2/8/07	14:34:35	757.000	839.000	1659.000	454.000	305.000	41.091	63.171	10.906	-0.588
2/8/07	14:35:35	759.000	845.000	1644.000	451.000	305.000	38.851	59.236	13.710	0.000
2/8/07	14:36:35	754.000	824.000	1636.000	436.000	305.000	38.863	60.013	9.773	-0.007
2/8/07	14:37:35	748.000	829.000	1664.000	458.000	304.000	36.440	63.216	10.571	-0.998
2/8/07	14:38:35	755.000	841.000	1632.000	455.000	304.000	44.790	62.469	13.054	-1.078
2/8/07	14:39:35	759.000	836.000	1668.000	458.000	305.000	32.198	61.050	10.784	-0.854
2/8/07	14:40:35	760.000	834.000	1638.000	443.000	304.000	39.297	62.662	16.369	-1.191
2/8/07	14:41:35	761.000	830.000	1666.000	454.000	305.000	34.572	61.868	10.727	-0.604
2/8/07	14:42:36	763.000	833.000	1630.000	442.000	305.000	42.172	63.518	6.969	-0.011
2/8/07	14:43:36	769.000	842.000	1662.000	459.000	305.000	40.719	62.659	5.761	-1.780
2/8/07	14:44:36	776.000	854.000	1649.000	445.000	305.000	36.117	63.963	9.986	-1.376
2/8/07	14:45:36	785.000	861.000	1640.000	446.000	305.000	37.746	60.882	16.934	-0.007
2/8/07	14:46:36	792.000	869.000	1655.000	460.000	305.000	43.704	62.039	17.854	-0.123
2/8/07	14:47:36	799.000	874.000	1657.000	461.000	306.000	44.357	61.404	14.685	-0.955
2/8/07	14:48:36	805.000	883.000	1648.000	456.000	306.000	38.931	59.121	5.751	-0.099
2/8/07	14:49:36	810.000	886.000	1641.000	451.000	306.000	46.695	59.602	12.246	-0.770
2/8/07	14:50:36	813.000	888.000	1642.000	449.000	307.000	38.943	59.321	5.927	-0.003
RUN 2										
2/8/07	16:30:39	799.000	827.000	1598.000	449.000	307.000	38.570	17.171	8.311	-0.858
2/8/07	16:31:39	801.000	829.000	1597.000	453.000	306.000	41.006	17.947	7.767	-0.442

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	16:32:39	810.000	845.000	1599.000	451.000	307.000	31.337	18.251	4.032	-1.372
2/8/07	16:33:39	823.000	861.000	1602.000	453.000	307.000	43.319	18.444	7.703	-0.376
2/8/07	16:34:39	831.000	863.000	1599.000	452.000	307.000	41.964	15.980	15.960	-0.428
2/8/07	16:35:39	840.000	867.000	1595.000	452.000	306.000	43.881	15.071	11.028	-0.105
2/8/07	16:36:39	844.000	861.000	1590.000	451.000	307.000	37.869	14.252	9.008	-1.103
2/8/07	16:37:39	845.000	856.000	1592.000	450.000	306.000	29.891	15.027	19.052	-0.743
2/8/07	16:38:39	847.000	863.000	1600.000	448.000	307.000	50.723	15.106	8.467	-1.844
2/8/07	16:39:39	857.000	885.000	1611.000	455.000	307.000	46.890	15.602	5.872	-0.956
2/8/07	16:40:39	867.000	894.000	1613.000	453.000	307.000	35.775	13.311	12.148	-0.278
2/8/07	16:41:39	866.000	882.000	1607.000	454.000	307.000	53.037	11.158	18.020	-1.381
2/8/07	16:42:39	857.000	866.000	1606.000	455.000	308.000	44.290	11.486	7.966	-1.502
2/8/07	16:43:39	850.000	851.000	1606.000	443.000	307.000	42.221	12.030	12.401	-0.008
2/8/07	16:44:39	841.000	843.000	1604.000	455.000	307.000	43.661	13.520	14.164	-0.409
2/8/07	16:45:39	829.000	830.000	1603.000	455.000	307.000	45.572	12.934	6.816	-1.487
2/8/07	16:46:39	818.000	820.000	1601.000	455.000	308.000	40.939	13.703	9.797	-0.650
2/8/07	16:47:39	817.000	827.000	1599.000	450.000	308.000	40.597	14.457	12.912	-1.134
2/8/07	16:48:39	814.000	842.000	1598.000	450.000	308.000	40.585	14.029	6.539	-1.126
2/8/07	16:49:39	816.000	835.000	1601.000	452.000	308.000	38.155	14.328	6.705	-0.552
2/8/07	16:50:40	812.000	830.000	1604.000	457.000	308.000	37.289	13.486	2.605	-0.012
2/8/07	16:51:40	809.000	832.000	1607.000	455.000	307.000	34.920	14.498	7.980	-0.414
2/8/07	16:52:40	809.000	834.000	1607.000	454.000	307.000	28.914	15.026	9.763	-1.351
2/8/07	16:53:40	814.000	844.000	1602.000	444.000	307.000	36.648	13.301	15.239	-0.008
2/8/07	16:54:40	819.000	851.000	1597.000	457.000	307.000	38.986	13.527	15.838	-0.722
2/8/07	16:55:40	820.000	844.000	1597.000	457.000	308.000	39.895	13.495	8.910	-0.001
2/8/07	16:56:40	819.000	839.000	1603.000	454.000	308.000	33.809	13.720	6.647	-1.078
2/8/07	16:57:40	822.000	843.000	1607.000	457.000	307.000	40.756	14.788	14.241	-1.976
2/8/07	16:58:40	821.000	839.000	1607.000	452.000	307.000	43.246	14.426	5.220	-1.747
2/8/07	16:59:40	818.000	836.000	1605.000	451.000	308.000	37.606	13.978	10.950	-1.910
2/8/07	17:00:40	818.000	840.000	1605.000	454.000	307.000	43.020	12.410	13.619	-1.184
2/8/07	17:01:40	822.000	847.000	1608.000	454.000	307.000	40.719	12.004	14.708	-0.011
2/8/07	17:02:40	829.000	858.000	1615.000	453.000	307.000	50.259	12.274	9.076	-1.011
2/8/07	17:03:40	835.000	866.000	1616.000	455.000	307.000	38.686	11.010	15.950	-1.408
2/8/07	17:04:40	836.000	861.000	1607.000	452.000	307.000	42.434	9.621	17.445	-0.006
2/8/07	17:05:40	832.000	846.000	1599.000	450.000	307.000	38.570	8.886	7.036	-0.749
2/8/07	17:06:40	824.000	830.000	1603.000	457.000	307.000	35.036	9.977	4.022	-0.322
2/8/07	17:07:40	819.000	834.000	1612.000	456.000	307.000	43.081	11.413	7.591	-0.009
2/8/07	17:08:40	818.000	838.000	1620.000	461.000	308.000	41.433	10.874	15.804	-1.444
2/8/07	17:09:40	819.000	846.000	1619.000	456.000	308.000	39.626	8.590	2.503	-0.006
2/8/07	17:10:40	815.000	839.000	1611.000	453.000	308.000	36.379	8.567	4.431	-0.400
2/8/07	17:11:40	808.000	827.000	1610.000	451.000	309.000	38.625	9.943	17.113	-0.122
2/8/07	17:12:40	799.000	815.000	1608.000	445.000	309.000	36.526	10.780	10.372	-0.004
2/8/07	17:13:40	793.000	811.000	1607.000	452.000	309.000	33.797	12.303	6.262	-1.365
2/8/07	17:14:40	792.000	810.000	1604.000	447.000	308.000	38.503	11.715	4.499	-0.003
2/8/07	17:15:40	795.000	814.000	1601.000	452.000	308.000	36.538	12.313	7.747	0.000
2/8/07	17:16:40	802.000	823.000	1603.000	450.000	308.000	37.252	12.645	12.425	-0.482
2/8/07	17:17:40	810.000	832.000	1605.000	452.000	309.000	35.073	11.556	12.080	-0.173
2/8/07	17:18:40	821.000	847.000	1604.000	453.000	309.000	36.324	10.768	3.092	0.000
2/8/07	17:19:40	831.000	855.000	1597.000	453.000	308.000	42.843	10.200	3.589	-0.734
2/8/07	17:20:40	837.000	854.000	1596.000	443.000	308.000	39.382	9.177	8.755	-1.170
2/8/07	17:21:40	839.000	858.000	1598.000	458.000	307.000	35.305	9.573	7.567	-0.649
2/8/07	17:22:40	841.000	857.000	1597.000	449.000	308.000	48.251	9.019	7.168	-0.678

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	17:23:41	839.000	849.000	1597.000	449.000	307.000	46.811	10.004	16.779	0.000
2/8/07	17:24:41	836.000	844.000	1593.000	449.000	307.000	36.672	9.025	4.212	-1.144
2/8/07	17:25:41	831.000	834.000	1588.000	448.000	308.000	40.975	9.942	11.836	-0.056
2/8/07	17:26:41	823.000	822.000	1590.000	454.000	307.000	40.170	10.417	8.166	-1.055
2/8/07	17:27:41	813.000	815.000	1591.000	445.000	308.000	39.004	11.491	14.187	-0.657
2/8/07	17:28:41	806.000	812.000	1590.000	452.000	307.000	35.018	12.516	6.958	-0.853
2/8/07	17:29:41	802.000	808.000	1589.000	450.000	308.000	40.029	12.376	11.890	-1.654
2/8/07	17:30:41	800.000	813.000	1595.000	453.000	307.000	34.231	13.642	3.735	-0.148
2/8/07	17:31:41	805.000	822.000	1599.000	461.000	308.000	39.040	13.428	6.096	-0.474
2/8/07	17:32:41	815.000	833.000	1600.000	450.000	308.000	35.696	12.540	6.038	0.000
2/8/07	17:33:41	823.000	845.000	1596.000	451.000	307.000	35.250	10.189	7.259	-0.550
2/8/07	17:34:41	832.000	852.000	1595.000	449.000	308.000	37.917	9.475	3.711	-0.158
2/8/07	17:35:41	841.000	865.000	1596.000	448.000	307.000	45.755	9.196	18.852	-1.755
2/8/07	17:36:41	850.000	876.000	1600.000	447.000	307.000	49.258	9.011	9.276	-1.101
2/8/07	17:37:41	856.000	875.000	1601.000	448.000	307.000	39.718	8.298	18.010	-0.005
2/8/07	17:38:41	853.000	863.000	1593.000	449.000	307.000	49.704	7.546	3.721	-0.825
2/8/07	17:39:41	842.000	843.000	1587.000	451.000	308.000	38.094	7.212	11.349	-0.003
2/8/07	17:40:41	831.000	827.000	1584.000	452.000	308.000	45.614	8.109	3.589	-0.638
2/8/07	17:41:41	820.000	819.000	1590.000	452.000	308.000	44.052	10.912	14.861	-0.634
2/8/07	17:42:41	810.000	805.000	1582.000	454.000	308.000	40.084	10.628	10.507	-0.015
2/8/07	17:43:41	796.000	788.000	1573.000	455.000	308.000	40.334	11.735	5.118	-0.871
2/8/07	17:44:41	782.000	777.000	1566.000	451.000	308.000	36.269	14.012	6.837	-0.554
2/8/07	17:45:41	776.000	775.000	1565.000	448.000	308.000	36.410	16.785	15.351	-0.011
2/8/07	17:46:41	778.000	781.000	1567.000	453.000	308.000	38.949	17.973	12.625	-1.091
2/8/07	17:47:41	786.000	792.000	1574.000	454.000	308.000	38.918	19.808	13.132	-0.790
2/8/07	17:48:41	801.000	816.000	1579.000	452.000	308.000	39.022	18.152	3.214	0.000
2/8/07	17:49:41	821.000	841.000	1582.000	449.000	309.000	41.854	14.523	6.583	-1.018
2/8/07	17:50:41	831.000	856.000	1585.000	452.000	309.000	41.244	11.749	5.453	-0.370
2/8/07	17:51:41	842.000	862.000	1586.000	449.000	309.000	43.069	11.080	13.666	-0.953
2/8/07	17:52:42	850.000	864.000	1586.000	460.000	309.000	42.037	9.058	3.755	-0.491
2/8/07	17:53:42	850.000	856.000	1583.000	455.000	309.000	34.884	8.007	9.685	0.000
2/8/07	17:54:42	847.000	847.000	1585.000	453.000	309.000	37.362	8.699	4.932	-1.767
2/8/07	17:55:42	841.000	843.000	1587.000	452.000	309.000	45.743	9.816	9.154	-0.652
2/8/07	17:56:42	838.000	840.000	1589.000	454.000	309.000	37.484	9.964	4.763	0.000
2/8/07	17:57:42	836.000	840.000	1588.000	461.000	309.000	40.560	9.548	6.427	-1.431
2/8/07	17:58:42	833.000	837.000	1587.000	458.000	310.000	38.143	9.568	2.503	-0.656
2/8/07	17:59:42	833.000	837.000	1589.000	453.000	310.000	37.954	10.193	9.884	-0.001
2/8/07	18:00:42	833.000	837.000	1595.000	452.000	311.000	37.777	10.270	11.227	-1.451
2/8/07	18:01:42	831.000	837.000	1598.000	460.000	311.000	42.855	10.470	13.710	-1.133
2/8/07	18:02:42	831.000	834.000	1598.000	450.000	311.000	32.717	10.285	4.465	-0.856
2/8/07	18:03:42	829.000	837.000	1595.000	450.000	311.000	43.399	9.603	5.707	-0.302
2/8/07	18:04:42	830.000	842.000	1597.000	454.000	311.000	39.687	9.239	16.670	-0.381
2/8/07	18:05:42	832.000	845.000	1600.000	446.000	311.000	42.843	9.263	18.429	-0.067
2/8/07	18:06:42	833.000	849.000	1600.000	449.000	311.000	35.177	8.865	7.537	-0.012
2/8/07	18:07:42	833.000	848.000	1596.000	456.000	311.000	34.884	7.650	13.497	-0.005
2/8/07	18:08:42	834.000	841.000	1594.000	456.000	311.000	39.510	8.067	7.002	-1.231
2/8/07	18:09:42	833.000	841.000	1601.000	453.000	312.000	35.519	8.897	13.433	-0.436
2/8/07	18:10:42	835.000	847.000	1605.000	453.000	312.000	33.547	9.062	11.062	-1.001
2/8/07	18:11:42	839.000	847.000	1603.000	451.000	312.000	38.943	8.296	3.589	-1.430
2/8/07	18:12:42	840.000	850.000	1603.000	447.000	312.000	38.064	6.941	6.914	-1.506
2/8/07	18:13:42	844.000	858.000	1602.000	444.000	312.000	40.548	6.992	8.244	-0.328

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	18:14:42	848.000	864.000	1603.000	453.000	312.000	31.392	7.213	3.034	-0.753
2/8/07	18:15:42	851.000	866.000	1604.000	453.000	312.000	36.422	6.247	7.002	-0.002
2/8/07	18:16:42	855.000	872.000	1605.000	455.000	312.000	44.455	6.132	10.727	-1.805
2/8/07	18:17:42	860.000	878.000	1604.000	457.000	313.000	38.363	5.910	13.419	-0.320
2/8/07	18:18:42	865.000	884.000	1605.000	453.000	313.000	40.310	6.471	7.581	-1.107
2/8/07	18:19:42	868.000	883.000	1606.000	453.000	313.000	33.571	5.309	15.595	-1.820
2/8/07	18:20:42	868.000	879.000	1608.000	450.000	313.000	47.690	5.218	5.751	-0.308
2/8/07	18:21:42	867.000	877.000	1608.000	455.000	313.000	33.907	4.661	12.756	-0.578
2/8/07	18:22:42	866.000	878.000	1606.000	453.000	314.000	28.646	5.082	4.631	-0.756
2/8/07	18:23:42	868.000	882.000	1608.000	453.000	313.000	36.690	4.911	12.124	-0.011
2/8/07	18:24:43	870.000	888.000	1608.000	448.000	313.000	45.926	5.255	13.189	-0.166
2/8/07	18:25:43	866.000	875.000	1607.000	455.000	313.000	41.232	5.087	12.148	-0.737
2/8/07	18:26:43	857.000	857.000	1605.000	450.000	313.000	44.815	4.467	8.579	-0.751
2/8/07	18:27:43	845.000	844.000	1605.000	450.000	313.000	44.296	5.326	10.706	-0.013
2/8/07	18:28:43	836.000	835.000	1607.000	447.000	313.000	32.711	6.201	16.437	-0.010
2/8/07	18:29:43	827.000	827.000	1612.000	444.000	313.000	37.685	6.934	5.196	-1.051
2/8/07	18:30:43	820.000	823.000	1614.000	447.000	312.000	42.147	7.174	4.411	-0.005
2/8/07	18:31:43	815.000	819.000	1609.000	449.000	312.000	42.581	7.299	3.170	0.000
2/8/07	18:32:43	810.000	813.000	1607.000	449.000	312.000	47.970	6.850	8.843	-0.815
2/8/07	18:33:43	805.000	807.000	1605.000	449.000	313.000	35.488	7.931	12.899	0.000
2/8/07	18:34:43	801.000	809.000	1609.000	447.000	313.000	38.247	9.112	3.312	-0.119
2/8/07	18:35:43	802.000	813.000	1612.000	448.000	313.000	35.158	9.362	9.797	-0.536
2/8/07	18:36:43	804.000	819.000	1612.000	448.000	312.000	35.348	8.422	6.715	-0.007
2/8/07	18:37:43	808.000	829.000	1613.000	457.000	313.000	38.143	7.799	3.633	0.000
2/8/07	18:38:43	815.000	836.000	1615.000	452.000	313.000	30.403	6.923	5.186	-0.009
2/8/07	18:39:43	823.000	849.000	1614.000	454.000	313.000	35.274	7.121	13.710	-0.532
2/8/07	18:40:43	831.000	854.000	1611.000	454.000	312.000	33.230	6.297	10.960	-1.289
2/8/07	18:41:43	833.000	853.000	1607.000	456.000	313.000	39.462	5.367	10.541	-1.947
2/8/07	18:42:43	833.000	852.000	1606.000	454.000	313.000	37.624	6.026	12.455	-1.550
2/8/07	18:43:43	833.000	850.000	1609.000	450.000	313.000	41.830	6.709	12.104	0.000
2/8/07	18:44:43	830.000	842.000	1598.000	447.000	313.000	35.708	6.311	8.788	-0.551
2/8/07	18:45:43	829.000	841.000	1582.000	450.000	312.000	33.602	6.022	10.030	-0.827
2/8/07	18:46:43	825.000	836.000	1575.000	443.000	312.000	40.225	9.315	3.768	0.000
2/8/07	18:47:43	823.000	838.000	1574.000	446.000	311.000	33.254	13.275	9.908	0.000
2/8/07	18:48:43	825.000	841.000	1578.000	447.000	311.000	36.178	15.518	9.320	-0.430
2/8/07	18:49:43	827.000	846.000	1581.000	449.000	311.000	37.099	15.401	11.627	-2.128
2/8/07	18:50:43	829.000	854.000	1583.000	457.000	312.000	31.697	13.759	16.758	-0.214
2/8/07	18:51:43	830.000	851.000	1582.000	452.000	312.000	36.452	12.406	4.577	-0.001
2/8/07	18:52:43	830.000	847.000	1582.000	447.000	312.000	39.926	12.382	10.838	-1.779
2/8/07	18:53:43	826.000	845.000	1581.000	447.000	312.000	36.440	12.296	3.711	-0.614
2/8/07	18:54:43	822.000	839.000	1579.000	452.000	311.000	43.307	12.979	16.724	-1.035
2/8/07	18:55:43	818.000	830.000	1577.000	450.000	312.000	37.283	13.688	14.495	-0.008
2/8/07	18:56:43	813.000	827.000	1572.000	446.000	312.000	34.994	15.272	2.693	-0.316
2/8/07	18:57:44	808.000	821.000	1572.000	443.000	312.000	39.443	17.421	4.709	-1.043
2/8/07	18:58:44	807.000	821.000	1572.000	453.000	312.000	31.221	18.224	12.577	-1.741
2/8/07	18:59:44	810.000	831.000	1574.000	448.000	312.000	42.514	17.311	8.234	-0.509
2/8/07	19:00:44	814.000	839.000	1574.000	454.000	312.000	38.192	18.213	19.918	-1.490
2/8/07	19:01:44	819.000	848.000	1575.000	449.000	311.000	34.987	17.114	16.680	-0.472
2/8/07	19:02:44	825.000	855.000	1578.000	450.000	312.000	39.108	16.257	8.998	-1.298
2/8/07	19:03:44	827.000	857.000	1580.000	453.000	312.000	34.731	15.738	5.010	-0.166
2/8/07	19:04:44	829.000	851.000	1578.000	454.000	312.000	34.017	15.545	6.715	-0.660

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	19:05:44	825.000	845.000	1575.000	453.000	312.000	37.136	15.103	5.230	-1.509
2/8/07	19:06:44	823.000	843.000	1574.000	449.000	312.000	33.547	16.515	7.489	-0.010
2/8/07	19:07:44	822.000	841.000	1576.000	452.000	312.000	41.665	17.223	7.868	-0.411
2/8/07	19:08:44	822.000	842.000	1576.000	446.000	312.000	36.178	18.068	3.823	-1.919
2/8/07	19:09:44	819.000	842.000	1571.000	449.000	311.000	33.431	16.972	11.227	-1.756
2/8/07	19:10:44	819.000	840.000	1568.000	451.000	311.000	34.377	16.710	7.489	-0.111
2/8/07	19:11:44	822.000	847.000	1568.000	451.000	311.000	27.950	18.571	4.587	-0.474
2/8/07	19:12:44	823.000	847.000	1569.000	452.000	311.000	44.046	18.573	8.068	-0.883
2/8/07	19:13:44	823.000	845.000	1572.000	451.000	310.000	35.403	17.952	7.347	-0.003
2/8/07	19:14:44	826.000	850.000	1572.000	446.000	311.000	42.001	18.815	15.848	-1.450
2/8/07	19:15:44	829.000	853.000	1571.000	450.000	311.000	36.544	18.917	7.445	-0.290
2/8/07	19:16:44	829.000	853.000	1572.000	451.000	311.000	33.809	17.198	17.046	-0.002
2/8/07	19:17:44	829.000	856.000	1574.000	453.000	311.000	35.116	17.551	11.282	-0.011
2/8/07	19:18:44	830.000	856.000	1574.000	452.000	311.000	32.735	16.192	2.858	-1.073
2/8/07	19:19:44	831.000	854.000	1571.000	456.000	311.000	40.353	16.790	9.563	-1.068
2/8/07	19:20:44	831.000	855.000	1569.000	451.000	312.000	38.668	16.463	11.062	-1.055
2/8/07	19:21:44	833.000	856.000	1572.000	449.000	312.000	35.061	17.546	15.595	-0.001
2/8/07	19:22:44	834.000	859.000	1573.000	456.000	312.000	44.345	18.152	11.413	-0.207
2/8/07	19:23:44	838.000	858.000	1572.000	451.000	312.000	44.876	17.051	2.381	0.000
2/8/07	19:24:44	836.000	850.000	1569.000	451.000	312.000	37.911	16.063	12.888	-0.010
2/8/07	19:25:44	831.000	845.000	1566.000	446.000	312.000	38.400	17.340	14.631	-0.723
2/8/07	19:26:44	830.000	850.000	1570.000	446.000	312.000	39.773	18.807	9.232	-0.692
2/8/07	19:27:45	834.000	854.000	1570.000	453.000	311.000	38.290	19.710	7.567	-1.712
2/8/07	19:28:45	836.000	855.000	1567.000	456.000	311.000	39.523	18.240	4.266	-2.628
2/8/07	19:29:45	835.000	854.000	1568.000	453.000	312.000	40.737	17.314	7.070	-0.006
2/8/07	19:30:45	834.000	850.000	1567.000	450.000	312.000	39.321	18.610	3.078	-0.002
2/8/07	19:31:45	834.000	847.000	1567.000	451.000	312.000	31.844	19.467	12.533	-1.720
2/8/07	19:32:45	833.000	848.000	1568.000	449.000	312.000	39.077	19.673	9.451	-0.542
2/8/07	19:33:45	832.000	850.000	1569.000	448.000	311.000	44.882	19.213	5.883	-0.922
2/8/07	19:34:45	834.000	852.000	1572.000	448.000	312.000	42.587	18.631	6.695	-1.350
2/8/07	19:35:45	833.000	852.000	1575.000	450.000	312.000	39.419	18.080	8.579	-1.790
2/8/07	19:36:45	833.000	852.000	1579.000	452.000	312.000	42.373	17.224	12.158	-0.013
2/8/07	19:37:45	833.000	854.000	1579.000	448.000	311.000	35.934	15.877	10.230	-0.641
2/8/07	19:38:45	833.000	853.000	1577.000	448.000	311.000	37.545	15.237	10.351	-2.086
2/8/07	19:39:45	828.000	848.000	1574.000	452.000	312.000	42.416	15.079	8.623	-0.471
2/8/07	19:40:45	824.000	840.000	1572.000	448.000	311.000	34.585	15.114	8.301	-0.548
2/8/07	19:41:45	821.000	838.000	1572.000	453.000	312.000	36.056	16.640	12.158	-0.001
2/8/07	19:42:45	819.000	836.000	1571.000	449.000	311.000	38.802	16.594	5.619	-1.151
2/8/07	19:43:45	819.000	837.000	1572.000	453.000	311.000	37.734	17.306	11.515	-1.130
2/8/07	19:44:45	819.000	838.000	1572.000	451.000	311.000	35.812	17.597	11.505	-2.047
2/8/07	19:45:45	823.000	841.000	1576.000	453.000	311.000	42.593	16.700	8.355	-0.577
2/8/07	19:46:45	826.000	845.000	1581.000	449.000	310.000	40.017	16.581	11.671	-0.011
2/8/07	19:47:45	828.000	847.000	1581.000	454.000	311.000	35.647	14.972	4.442	-1.351
2/8/07	19:48:45	831.000	845.000	1579.000	452.000	310.000	36.947	13.356	10.639	-0.011
2/8/07	19:49:45	832.000	845.000	1576.000	450.000	310.000	41.299	12.627	7.824	-0.007
2/8/07	19:50:45	835.000	853.000	1578.000	449.000	310.000	39.864	13.567	8.609	-1.761
2/8/07	19:51:45	843.000	865.000	1581.000	446.000	310.000	36.178	14.388	7.479	-0.024
2/8/07	19:52:45	851.000	877.000	1582.000	453.000	311.000	39.999	13.308	5.010	-1.641
2/8/07	19:53:45	856.000	880.000	1581.000	450.000	311.000	36.605	11.626	7.679	-1.613
2/8/07	19:54:45	854.000	870.000	1580.000	454.000	311.000	34.640	10.865	12.489	-0.411
2/8/07	19:55:45	851.000	859.000	1583.000	451.000	312.000	38.601	11.750	7.314	-0.001

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG Dryer Discharge Soil	TE5B_ENG Dryer Exhaust Gas	TE12_ENG Oxidizer Exhaust Gas	TE13A_ENG Quench Exhaust Temp	TE14_ENG B.H. Outlet Gas	FI9_ENG Feed Rate (ton/hr)	CO_CORRE CO (@7% O2)	PI15_ENG B.H. dP	PT6_ENG Dryer Pressure (in. W.C.)
2/8/07	19:56:45	844.000	852.000	1585.000	452.000	312.000	39.749	12.662	10.473	-1.289
2/8/07	19:57:45	839.000	846.000	1583.000	450.000	312.000	40.243	13.433	8.667	-0.580
2/8/07	19:58:45	835.000	845.000	1578.000	452.000	312.000	29.848	12.021	8.667	-0.012
2/8/07	19:59:45	835.000	847.000	1576.000	451.000	312.000	32.912	13.534	3.555	-0.005
2/8/07	20:00:45	838.000	845.000	1579.000	448.000	312.000	41.586	14.022	13.842	-1.901
2/8/07	20:01:45	838.000	847.000	1581.000	449.000	310.000	40.267	13.687	11.593	-2.085
2/8/07	20:02:46	839.000	850.000	1579.000	453.000	310.000	39.266	13.293	10.493	-0.635
2/8/07	20:03:46	839.000	843.000	1572.000	449.000	311.000	43.045	12.337	10.372	-0.005
2/8/07	20:04:46	834.000	834.000	1571.000	446.000	311.000	39.614	12.679	7.669	-1.437
2/8/07	20:05:46	827.000	828.000	1572.000	444.000	311.000	40.481	15.200	8.477	-0.009
2/8/07	20:06:46	823.000	824.000	1573.000	457.000	311.000	38.094	16.060	12.932	0.000
2/8/07	20:07:46	821.000	823.000	1569.000	455.000	311.000	44.497	15.309	14.874	-1.248
2/8/07	20:08:46	817.000	819.000	1566.000	450.000	311.000	41.500	15.986	16.823	-1.745
2/8/07	20:09:46	818.000	828.000	1571.000	454.000	311.000	37.569	18.645	14.729	-0.003
2/8/07	20:10:46	824.000	841.000	1577.000	453.000	311.000	37.838	18.730	3.900	-0.005
2/8/07	20:11:46	833.000	849.000	1583.000	449.000	311.000	36.245	17.809	10.050	-0.891
2/8/07	20:12:46	843.000	869.000	1586.000	448.000	312.000	36.391	17.214	6.583	-0.795
2/8/07	20:13:46	859.000	894.000	1589.000	448.000	313.000	33.126	15.008	13.453	-0.357
2/8/07	20:14:46	877.000	920.000	1592.000	451.000	313.000	39.791	12.898	12.655	-0.776
2/8/07	20:15:46	894.000	939.000	1594.000	450.000	312.000	36.996	10.608	15.527	-1.075
2/8/07	20:16:46	909.000	950.000	1595.000	452.000	312.000	45.523	9.265	11.126	-0.007
2/8/07	20:17:46	919.000	954.000	1596.000	453.000	312.000	43.954	7.050	3.369	-0.005
2/8/07	20:18:46	927.000	950.000	1598.000	458.000	312.000	43.899	7.269	16.636	-0.559
2/8/07	20:19:46	930.000	946.000	1604.000	453.000	313.000	37.203	6.668	12.134	-0.005
2/8/07	20:20:46	928.000	940.000	1608.000	451.000	313.000	39.376	6.395	6.948	-0.445
2/8/07	20:21:46	921.000	931.000	1608.000	453.000	313.000	37.539	6.456	13.487	-0.989
2/8/07	20:22:46	915.000	923.000	1606.000	450.000	314.000	43.130	6.159	19.383	-1.068
2/8/07	20:23:46	906.000	912.000	1612.000	447.000	314.000	36.562	6.487	5.440	-1.158
2/8/07	20:24:46	902.000	908.000	1618.000	452.000	314.000	39.736	7.401	13.024	-0.003
2/8/07	20:25:46	895.000	903.000	1621.000	458.000	314.000	39.083	6.731	8.166	0.000
2/8/07	20:26:46	893.000	902.000	1619.000	447.000	315.000	46.066	5.793	9.529	-0.005
2/8/07	20:27:46	888.000	898.000	1614.000	446.000	314.000	37.862	5.827	14.208	-0.027
2/8/07	20:28:46	883.000	894.000	1615.000	449.000	315.000	37.563	6.350	4.665	-0.229
2/8/07	20:29:46	880.000	888.000	1621.000	453.000	315.000	42.489	7.312	9.343	-1.433
2/8/07	20:30:46	879.000	889.000	1624.000	448.000	315.000	34.609	6.887	4.810	-0.578
2/8/07	20:31:46	877.000	889.000	1614.000	448.000	315.000	46.054	6.262	17.820	0.000
2/8/07	20:32:46	879.000	892.000	1600.000	449.000	315.000	40.579	6.535	6.925	-1.565
2/8/07	20:33:46	880.000	892.000	1594.000	449.000	315.000	45.462	7.860	6.106	-1.167
2/8/07	20:34:47	881.000	892.000	1593.000	442.000	315.000	44.949	10.458	4.963	-0.620
2/8/07	20:35:47	882.000	895.000	1592.000	447.000	315.000	42.343	12.129	9.553	-1.663
2/8/07	20:36:47	884.000	896.000	1589.000	453.000	315.000	39.059	11.372	22.100	0.000
2/8/07	20:37:47	890.000	904.000	1590.000	443.000	315.000	40.823	12.819	11.305	-0.005
2/8/07	20:38:47	894.000	911.000	1592.000	444.000	315.000	44.888	12.670	5.406	-0.001
2/8/07	20:39:47	899.000	916.000	1594.000	448.000	315.000	41.262	12.115	15.960	-0.758
2/8/07	20:40:47	903.000	922.000	1593.000	451.000	315.000	45.694	10.626	8.268	-0.400
2/8/07	20:41:48	906.000	927.000	1594.000	454.000	316.000	39.340	9.510	13.687	-0.086
2/8/07	20:42:48	910.000	931.000	1595.000	445.000	316.000	44.375	10.772	4.753	-1.399
2/8/07	20:43:48	913.000	937.000	1595.000	453.000	316.000	43.539	10.559	7.415	-0.296
2/8/07	20:44:48	907.000	925.000	1600.000	453.000	316.000	44.272	9.924	5.040	-2.033
2/8/07	20:45:48	892.000	900.000	1605.000	450.000	316.000	45.382	10.352	11.315	-0.004
2/8/07	20:46:48	875.000	879.000	1605.000	452.000	316.000	45.718	11.008	10.230	-0.337

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	20:47:48	857.000	864.000	1599.000	445.000	316.000	36.568	13.219	4.042	-0.570
2/8/07	20:48:48	840.000	852.000	1596.000	448.000	316.000	34.402	14.240	9.499	-0.001
2/8/07	20:49:48	831.000	846.000	1594.000	446.000	315.000	46.444	15.349	5.240	-0.001
2/8/07	20:50:48	829.000	850.000	1597.000	449.000	315.000	32.436	15.602	16.636	-0.002
2/8/07	20:51:48	840.000	868.000	1597.000	453.000	315.000	41.683	17.297	11.370	-1.348
2/8/07	20:52:48	857.000	892.000	1597.000	447.000	314.000	35.714	15.226	7.469	0.000
2/8/07	20:53:48	874.000	922.000	1597.000	449.000	314.000	34.731	13.468	14.830	0.000
2/8/07	20:54:49	889.000	937.000	1598.000	455.000	314.000	33.169	12.058	7.591	-0.498
2/8/07	20:55:49	901.000	941.000	1601.000	455.000	314.000	44.638	11.145	4.655	-1.693
RUN 3										
2/8/07	22:05:52	802.000	823.000	1553.000	445.000	312.000	36.178	38.272	4.100	-0.308
2/8/07	22:06:52	809.000	836.000	1561.000	453.000	312.000	28.261	35.141	3.258	-1.462
2/8/07	22:07:52	822.000	856.000	1564.000	453.000	313.000	30.947	31.906	7.767	-0.541
2/8/07	22:08:52	840.000	877.000	1566.000	451.000	313.000	40.530	26.499	9.120	-0.414
2/8/07	22:09:52	852.000	887.000	1568.000	450.000	312.000	36.019	22.919	3.877	-0.837
2/8/07	22:10:52	860.000	894.000	1573.000	449.000	312.000	39.822	21.779	14.952	-0.131
2/8/07	22:11:52	864.000	895.000	1576.000	453.000	312.000	29.909	20.780	8.034	-0.754
2/8/07	22:12:52	874.000	905.000	1577.000	449.000	312.000	32.576	18.798	5.054	-1.120
2/8/07	22:13:52	885.000	921.000	1578.000	453.000	312.000	38.656	18.218	5.517	-0.230
2/8/07	22:14:52	892.000	927.000	1583.000	455.000	312.000	42.648	16.646	13.244	-1.180
2/8/07	22:15:52	895.000	926.000	1586.000	455.000	313.000	44.742	15.280	9.543	-0.739
2/8/07	22:16:52	896.000	928.000	1583.000	455.000	313.000	38.967	13.302	13.355	0.000
2/8/07	22:17:53	894.000	915.000	1582.000	453.000	314.000	41.220	12.633	9.851	-1.110
2/8/07	22:18:53	890.000	903.000	1584.000	449.000	313.000	36.770	13.851	10.693	-1.865
2/8/07	22:19:53	884.000	897.000	1586.000	446.000	313.000	38.693	14.601	8.589	-0.660
2/8/07	22:20:53	878.000	891.000	1588.000	451.000	313.000	40.048	14.615	3.789	-0.623
2/8/07	22:21:53	871.000	883.000	1589.000	454.000	313.000	46.695	13.909	2.547	0.000
2/8/07	22:22:53	866.000	883.000	1590.000	448.000	313.000	48.593	14.578	10.250	0.000
2/8/07	22:23:53	863.000	881.000	1589.000	449.000	312.000	43.661	15.670	4.066	-1.980
2/8/07	22:24:53	858.000	869.000	1587.000	447.000	312.000	41.983	14.100	9.820	-1.211
2/8/07	22:25:53	848.000	857.000	1588.000	450.000	312.000	41.146	14.947	10.473	-0.203
2/8/07	22:26:53	839.000	851.000	1588.000	445.000	312.000	44.119	15.895	16.258	-0.485
2/8/07	22:27:53	835.000	850.000	1586.000	451.000	312.000	40.341	16.253	20.669	-1.421
2/8/07	22:28:53	826.000	840.000	1583.000	445.000	312.000	42.318	17.129	6.072	-1.033
2/8/07	22:29:53	816.000	828.000	1578.000	449.000	311.000	44.137	17.807	9.972	-0.006
2/8/07	22:30:53	807.000	821.000	1579.000	451.000	311.000	35.543	17.362	5.561	-0.555
2/8/07	22:31:53	802.000	819.000	1576.000	449.000	312.000	42.483	17.258	12.334	-0.003
2/8/07	22:32:53	796.000	817.000	1568.000	444.000	311.000	36.501	18.480	9.110	0.000
2/8/07	22:33:53	788.000	805.000	1563.000	450.000	311.000	39.071	17.971	14.387	-1.295
2/8/07	22:34:53	775.000	793.000	1562.000	441.000	310.000	38.198	21.364	7.557	-0.755
2/8/07	22:35:54	767.000	788.000	1572.000	453.000	310.000	36.282	23.897	10.605	-0.615
2/8/07	22:36:54	761.000	784.000	1590.000	455.000	311.000	45.230	26.649	5.741	-0.901
2/8/07	22:37:54	760.000	786.000	1600.000	449.000	311.000	40.927	26.354	11.559	-0.754
2/8/07	22:38:54	759.000	785.000	1602.000	449.000	311.000	42.782	21.694	11.748	-0.001
2/8/07	22:39:54	759.000	784.000	1602.000	447.000	310.000	31.447	16.959	13.277	-0.550
2/8/07	22:40:54	760.000	787.000	1603.000	454.000	310.000	35.616	14.864	5.673	-1.423
2/8/07	22:41:54	765.000	792.000	1605.000	453.000	310.000	35.146	12.803	11.846	-0.635
2/8/07	22:42:54	769.000	797.000	1601.000	451.000	309.000	39.938	9.994	6.326	-0.693
2/8/07	22:43:54	768.000	795.000	1603.000	457.000	310.000	43.136	10.226	7.469	-1.084

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	22:44:54	763.000	788.000	1608.000	454.000	310.000	31.606	11.255	8.200	-1.591
2/8/07	22:45:54	764.000	792.000	1607.000	458.000	310.000	48.788	12.758	6.894	0.000
2/8/07	22:46:54	766.000	796.000	1604.000	451.000	310.000	31.289	13.016	3.156	-1.281
2/8/07	22:47:54	771.000	800.000	1599.000	447.000	310.000	45.572	12.158	15.551	-1.140
2/8/07	22:48:54	774.000	802.000	1598.000	450.000	310.000	20.619	12.247	3.944	-0.914
2/8/07	22:49:54	777.000	803.000	1603.000	455.000	310.000	42.227	11.096	15.980	0.000
2/8/07	22:50:54	781.000	809.000	1604.000	454.000	309.000	40.646	10.634	9.773	-0.678
2/8/07	22:51:54	784.000	810.000	1600.000	452.000	309.000	44.656	9.852	6.593	-0.238
2/8/07	22:52:54	781.000	803.000	1600.000	450.000	309.000	35.885	8.482	12.445	-2.156
2/8/07	22:53:54	776.000	794.000	1600.000	449.000	309.000	41.348	9.637	16.258	-2.378
2/8/07	22:54:54	773.000	796.000	1597.000	448.000	309.000	30.269	10.352	7.259	-1.168
2/8/07	22:55:54	772.000	798.000	1593.000	452.000	309.000	38.155	10.494	11.704	-0.302
2/8/07	22:56:54	770.000	793.000	1599.000	442.000	308.000	38.290	9.845	6.969	-2.131
2/8/07	22:57:55	769.000	793.000	1603.000	449.000	307.000	47.024	11.001	8.102	-0.038
2/8/07	22:58:55	769.000	794.000	1609.000	449.000	307.000	34.432	9.642	13.156	-0.246
2/8/07	22:59:55	772.000	796.000	1609.000	454.000	306.000	39.242	8.781	8.832	-0.785
2/8/07	23:00:55	776.000	805.000	1607.000	455.000	306.000	37.771	7.190	7.581	-2.330
2/8/07	23:01:55	781.000	812.000	1608.000	455.000	306.000	33.071	6.334	7.168	-0.940
2/8/07	23:02:55	785.000	815.000	1609.000	451.000	307.000	41.189	5.781	7.801	-0.692
2/8/07	23:03:55	787.000	814.000	1610.000	448.000	307.000	37.612	5.322	9.451	-0.089
2/8/07	23:04:55	787.000	814.000	1608.000	451.000	307.000	36.452	5.791	4.377	-0.142
2/8/07	23:05:55	783.000	806.000	1606.000	452.000	308.000	40.823	6.437	7.736	-0.003
2/8/07	23:06:55	783.000	812.000	1607.000	452.000	308.000	35.317	6.494	3.126	-0.515
2/8/07	23:07:55	786.000	817.000	1608.000	445.000	308.000	39.254	7.163	2.605	-0.777
2/8/07	23:08:55	787.000	810.000	1610.000	445.000	308.000	40.457	6.249	8.887	-0.623
2/8/07	23:09:55	785.000	808.000	1610.000	454.000	308.000	46.493	6.342	6.938	-0.004
2/8/07	23:10:55	787.000	809.000	1615.000	448.000	307.000	38.876	5.156	9.052	-0.764
2/8/07	23:11:55	789.000	811.000	1616.000	448.000	308.000	37.167	5.157	8.677	-0.338
2/8/07	23:12:55	789.000	814.000	1618.000	446.000	308.000	39.755	5.176	6.140	-0.469
2/8/07	23:13:55	788.000	813.000	1617.000	451.000	308.000	41.897	4.195	13.176	-0.173
2/8/07	23:14:55	784.000	808.000	1612.000	454.000	308.000	43.966	4.369	7.966	-0.899
2/8/07	23:15:55	779.000	806.000	1608.000	459.000	308.000	37.051	4.582	11.924	-0.785
2/8/07	23:16:55	773.000	798.000	1608.000	447.000	309.000	39.114	5.816	10.727	-0.459
2/8/07	23:17:55	766.000	794.000	1613.000	455.000	309.000	33.327	6.741	3.900	-1.339
2/8/07	23:18:55	762.000	795.000	1611.000	450.000	309.000	43.576	7.258	14.607	-0.316
2/8/07	23:19:55	758.000	788.000	1601.000	453.000	309.000	32.729	5.711	5.352	-0.027
2/8/07	23:20:55	752.000	781.000	1593.000	450.000	309.000	40.884	6.692	9.908	-1.640
2/8/07	23:21:55	748.000	783.000	1592.000	447.000	309.000	41.659	0.563	11.934	-0.002
2/8/07	23:22:55	747.000	783.000	1590.000	449.000	309.000	40.811	0.475	3.413	-1.337
2/8/07	23:23:55	749.000	789.000	1590.000	451.000	309.000	41.012	2.135	8.146	-0.377
2/8/07	23:24:55	756.000	804.000	1591.000	450.000	308.000	41.635	123.244	17.743	-0.011
2/8/07	23:25:55	768.000	822.000	1594.000	453.000	309.000	43.301	121.956	7.026	-0.818
2/8/07	23:26:55	778.000	832.000	1600.000	454.000	309.000	33.266	6.681	6.417	-0.109
2/8/07	23:27:55	787.000	835.000	1603.000	452.000	309.000	41.085	40.724	7.767	-0.060
2/8/07	23:28:56	791.000	834.000	1604.000	446.000	309.000	40.627	68.880	9.022	-0.786
2/8/07	23:29:56	797.000	832.000	1603.000	447.000	309.000	51.126	29.624	18.974	-0.008
2/8/07	23:30:56	799.000	834.000	1602.000	448.000	308.000	43.570	25.890	8.978	-0.333
2/8/07	23:31:56	796.000	824.000	1597.000	452.000	308.000	44.265	24.936	7.314	-1.952
2/8/07	23:32:56	786.000	805.000	1591.000	445.000	309.000	45.175	22.809	16.745	-2.283
2/8/07	23:33:56	775.000	789.000	1584.000	450.000	308.000	39.761	24.587	9.597	-2.697
2/8/07	23:34:56	760.000	775.000	1576.000	449.000	308.000	49.496	25.720	5.605	-0.016

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/8/07	23:35:56	747.000	765.000	1568.000	442.000	308.000	42.721	28.542	4.810	-0.994
2/8/07	23:36:56	737.000	761.000	1564.000	444.000	308.000	40.310	34.303	13.078	-0.582
2/8/07	23:37:56	731.000	759.000	1561.000	448.000	308.000	33.773	37.095	4.776	-0.811
2/8/07	23:38:56	729.000	752.000	1558.000	442.000	307.000	35.873	38.284	16.735	-0.343
2/8/07	23:39:56	725.000	754.000	1559.000	449.000	308.000	39.901	39.721	15.395	-0.876
2/8/07	23:40:56	732.000	765.000	1564.000	451.000	308.000	39.169	41.557	9.022	-0.871
2/8/07	23:41:56	743.000	782.000	1568.000	454.000	308.000	39.199	42.986	16.525	-0.242
2/8/07	23:42:56	753.000	798.000	1571.000	450.000	308.000	36.233	40.683	15.338	-0.006
2/8/07	23:43:56	767.000	811.000	1572.000	450.000	309.000	35.622	38.141	19.519	-0.219
2/8/07	23:44:56	772.000	809.000	1567.000	449.000	308.000	44.674	34.104	8.210	-1.047
2/8/07	23:45:56	773.000	805.000	1570.000	448.000	309.000	30.837	35.480	13.443	-0.539
2/8/07	23:46:56	778.000	807.000	1571.000	452.000	309.000	42.471	37.285	12.844	-1.676
2/8/07	23:47:56	784.000	815.000	1574.000	451.000	309.000	38.784	37.717	2.693	0.000
2/8/07	23:48:56	790.000	823.000	1572.000	449.000	309.000	41.567	35.607	8.136	-0.204
2/8/07	23:49:56	794.000	826.000	1576.000	447.000	309.000	40.341	32.470	17.333	-0.629
2/8/07	23:50:56	796.000	826.000	1578.000	449.000	309.000	41.458	33.267	15.459	-0.005
2/8/07	23:51:56	798.000	831.000	1580.000	449.000	308.000	41.726	31.290	7.835	-1.950
2/8/07	23:52:56	798.000	834.000	1579.000	453.000	308.000	38.705	31.290	6.782	-1.221
2/8/07	23:53:56	794.000	828.000	1575.000	448.000	308.000	42.611	29.470	6.559	-1.296
2/8/07	23:54:56	785.000	814.000	1575.000	445.000	308.000	38.308	30.014	17.712	-2.288
2/8/07	23:55:56	774.000	799.000	1578.000	446.000	308.000	43.850	31.970	6.860	-0.002
2/8/07	23:56:56	763.000	788.000	1579.000	447.000	308.000	42.349	33.872	6.004	-0.003
2/8/07	23:57:56	754.000	786.000	1578.000	448.000	307.000	35.238	33.467	6.160	-1.323
2/8/07	23:58:56	751.000	790.000	1579.000	448.000	308.000	36.739	32.890	8.545	-1.259
2/8/07	23:59:57	751.000	791.000	1579.000	445.000	307.000	38.595	32.833	5.829	-0.947
2/9/07	00:00:57	753.000	797.000	1580.000	449.000	307.000	41.183	32.078	4.533	-1.667
2/9/07	00:01:57	757.000	806.000	1579.000	453.000	307.000	38.827	29.280	17.056	-0.132
2/9/07	00:02:57	760.000	807.000	1580.000	454.000	307.000	33.785	28.173	12.479	-0.488
2/9/07	00:03:57	760.000	809.000	1581.000	449.000	307.000	43.539	29.460	17.743	-1.463
2/9/07	00:04:57	761.000	809.000	1582.000	452.000	307.000	38.406	29.496	14.441	-0.013
2/9/07	00:05:57	761.000	806.000	1588.000	451.000	307.000	35.207	29.913	11.759	0.000
2/9/07	00:06:57	762.000	806.000	1590.000	451.000	308.000	38.833	31.158	5.818	-1.760
2/9/07	00:07:57	764.000	812.000	1593.000	454.000	308.000	36.617	28.560	15.060	-0.007
2/9/07	00:08:57	768.000	821.000	1592.000	452.000	308.000	43.252	26.802	10.196	-0.823
2/9/07	00:09:57	775.000	825.000	1590.000	448.000	308.000	43.563	26.685	5.805	-0.514
2/9/07	00:10:57	774.000	827.000	1592.000	452.000	308.000	41.561	26.512	11.704	-1.418
2/9/07	00:11:57	772.000	822.000	1589.000	449.000	308.000	41.995	26.803	15.683	-1.072
2/9/07	00:12:57	769.000	816.000	1586.000	452.000	308.000	39.626	25.613	13.920	-0.790
2/9/07	00:13:57	763.000	801.000	1584.000	442.000	307.000	37.051	25.789	5.839	-1.192
2/9/07	00:14:57	751.000	788.000	1587.000	448.000	307.000	44.174	27.832	9.188	-1.412
2/9/07	00:15:57	742.000	779.000	1596.000	450.000	307.000	42.355	29.730	4.963	-0.040
2/9/07	00:16:57	732.000	771.000	1598.000	450.000	307.000	37.057	28.542	7.557	-1.207
2/9/07	00:17:57	724.000	764.000	1599.000	452.000	308.000	35.659	27.619	15.615	-1.253
2/9/07	00:18:57	718.000	763.000	1600.000	452.000	308.000	34.359	26.678	9.830	-1.077
2/9/07	00:19:57	717.000	764.000	1604.000	449.000	308.000	35.299	27.343	8.501	-0.010
2/9/07	00:20:57	720.000	767.000	1609.000	451.000	308.000	36.715	26.304	3.535	-0.994
2/9/07	00:21:57	728.000	781.000	1611.000	449.000	308.000	38.632	24.070	8.954	-0.003
2/9/07	00:22:57	737.000	795.000	1613.000	449.000	308.000	41.848	21.838	2.801	-0.855
2/9/07	00:23:57	748.000	806.000	1617.000	452.000	307.000	36.581	21.092	17.766	-0.072
2/9/07	00:24:57	761.000	819.000	1625.000	453.000	308.000	37.234	18.999	11.704	-0.002
2/9/07	00:25:58	770.000	825.000	1629.000	455.000	307.000	40.072	17.424	4.465	-1.739

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/9/07	00:26:58	778.000	824.000	1630.000	455.000	308.000	34.481	16.454	7.689	-0.217
2/9/07	00:27:58	780.000	828.000	1631.000	455.000	308.000	38.448	16.167	13.643	-0.008
2/9/07	00:28:58	782.000	828.000	1635.000	458.000	308.000	37.692	15.221	12.279	-0.647
2/9/07	00:29:58	782.000	827.000	1641.000	456.000	309.000	36.001	15.669	7.601	-0.254
2/9/07	00:30:58	785.000	841.000	1642.000	453.000	308.000	37.014	15.232	7.757	-1.222
2/9/07	00:31:58	789.000	847.000	1636.000	454.000	308.000	38.247	14.816	8.843	-1.475
2/9/07	00:32:58	789.000	851.000	1633.000	450.000	308.000	40.902	13.721	8.843	-0.781
2/9/07	00:33:58	786.000	842.000	1630.000	452.000	308.000	39.382	14.461	15.395	-0.001
2/9/07	00:34:58	780.000	827.000	1628.000	453.000	307.000	41.635	14.884	6.573	-0.994
2/9/07	00:35:58	772.000	814.000	1625.000	453.000	307.000	36.929	14.755	5.440	-0.001
2/9/07	00:36:58	762.000	803.000	1623.000	447.000	307.000	44.796	15.119	6.106	-1.101
2/9/07	00:37:58	751.000	791.000	1619.000	452.000	307.000	41.415	16.014	15.716	-0.574
2/9/07	00:38:58	747.000	788.000	1621.000	449.000	307.000	36.684	16.407	3.521	-0.001
2/9/07	00:39:58	745.000	790.000	1621.000	449.000	307.000	41.464	17.428	8.136	-1.276
2/9/07	00:40:58	744.000	787.000	1621.000	452.000	307.000	46.133	16.989	4.012	-0.584
2/9/07	00:41:58	743.000	786.000	1616.000	454.000	307.000	27.175	17.077	4.012	-2.031
2/9/07	00:42:58	746.000	792.000	1617.000	450.000	307.000	30.733	18.250	8.345	-1.780
2/9/07	00:43:58	751.000	805.000	1619.000	444.000	307.000	32.357	19.289	10.405	-0.012
2/9/07	00:44:58	761.000	819.000	1621.000	449.000	307.000	37.673	19.298	7.435	0.000
2/9/07	00:45:58	769.000	834.000	1618.000	448.000	307.000	34.548	16.518	8.944	-0.834
2/9/07	00:46:58	779.000	852.000	1617.000	454.000	308.000	31.368	16.010	13.044	-2.407
2/9/07	00:47:58	785.000	863.000	1619.000	452.000	307.000	34.524	15.777	4.421	-0.004
2/9/07	00:48:58	795.000	875.000	1625.000	448.000	307.000	47.928	14.139	6.661	-1.459
2/9/07	00:49:58	806.000	878.000	1625.000	450.000	306.000	30.428	14.031	8.487	-2.368
2/9/07	00:50:59	807.000	862.000	1623.000	456.000	307.000	38.351	14.330	15.605	-1.553
2/9/07	00:51:59	800.000	839.000	1626.000	457.000	307.000	39.864	14.083	16.603	-0.697
2/9/07	00:52:59	788.000	819.000	1634.000	455.000	307.000	37.600	14.693	7.503	-0.387
2/9/07	00:53:59	778.000	808.000	1635.000	449.000	308.000	40.219	15.628	8.257	-0.952
2/9/07	00:54:59	770.000	805.000	1633.000	450.000	308.000	39.217	14.407	8.866	-0.614
2/9/07	00:55:59	764.000	803.000	1629.000	448.000	308.000	31.496	14.345	3.910	-0.973
2/9/07	00:56:59	760.000	801.000	1627.000	452.000	308.000	35.866	14.198	15.216	-0.004
2/9/07	00:57:59	762.000	804.000	1628.000	451.000	308.000	35.818	15.212	7.036	-1.195
2/9/07	00:58:59	765.000	808.000	1630.000	453.000	308.000	33.498	15.010	3.988	-1.328
2/9/07	00:59:59	771.000	818.000	1633.000	450.000	308.000	36.233	15.195	17.533	-0.638
2/9/07	01:00:59	782.000	832.000	1633.000	449.000	308.000	31.093	14.724	11.048	-1.178
2/9/07	01:01:59	795.000	846.000	1632.000	451.000	308.000	30.190	14.787	5.585	-1.858
2/9/07	01:02:59	802.000	859.000	1636.000	451.000	308.000	27.913	13.595	20.902	-0.586
2/9/07	01:03:59	811.000	870.000	1640.000	460.000	308.000	32.833	13.229	9.729	-1.085
2/9/07	01:04:59	819.000	882.000	1641.000	450.000	307.000	32.058	13.379	10.517	-1.067
2/9/07	01:05:59	827.000	888.000	1639.000	452.000	308.000	36.080	12.196	10.693	-0.443
2/9/07	01:06:59	832.000	893.000	1639.000	453.000	308.000	41.738	12.362	3.477	-0.001
2/9/07	01:07:59	836.000	888.000	1641.000	456.000	308.000	39.999	12.279	4.222	-0.901
2/9/07	01:08:59	836.000	879.000	1643.000	455.000	308.000	41.818	13.308	2.216	-1.143
2/9/07	01:09:59	835.000	868.000	1643.000	452.000	308.000	39.083	12.984	7.114	-1.178
2/9/07	01:10:59	835.000	864.000	1641.000	452.000	308.000	36.636	12.238	9.110	-0.756
2/9/07	01:11:59	833.000	863.000	1641.000	452.000	308.000	37.521	11.983	15.172	-1.924
2/9/07	01:12:59	832.000	867.000	1641.000	449.000	308.000	33.175	13.456	19.319	0.000
2/9/07	01:13:59	829.000	863.000	1639.000	450.000	308.000	42.044	12.837	7.889	-0.931
2/9/07	01:14:59	818.000	845.000	1635.000	451.000	308.000	41.299	12.911	12.976	-0.007
2/9/07	01:15:59	803.000	827.000	1634.000	449.000	308.000	37.185	12.834	4.120	-0.278
2/9/07	01:16:59	793.000	821.000	1636.000	450.000	308.000	34.633	13.449	4.553	0.000

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/9/07	01:17:59	792.000	831.000	1640.000	450.000	308.000	28.414	14.087	4.641	-1.139
2/9/07	01:18:59	794.000	842.000	1639.000	448.000	308.000	35.049	14.347	9.786	-0.819
2/9/07	01:19:59	796.000	847.000	1637.000	452.000	308.000	41.171	13.097	15.371	-2.454
2/9/07	01:20:59	797.000	844.000	1638.000	452.000	308.000	34.872	12.690	10.673	-1.832
2/9/07	01:21:59	798.000	844.000	1638.000	455.000	309.000	33.889	12.747	4.942	-1.849
2/9/07	01:23:00	798.000	835.000	1636.000	449.000	309.000	34.817	14.127	10.473	-1.028
2/9/07	01:24:00	796.000	831.000	1632.000	449.000	309.000	34.414	13.309	8.112	-0.053
2/9/07	01:25:00	792.000	826.000	1630.000	455.000	309.000	31.112	12.625	4.134	-0.584
2/9/07	01:26:00	793.000	825.000	1628.000	451.000	309.000	31.533	13.511	4.032	-1.710
2/9/07	01:27:00	796.000	832.000	1632.000	448.000	308.000	35.128	13.636	12.611	-0.293
2/9/07	01:28:00	799.000	836.000	1633.000	451.000	308.000	33.913	13.511	11.836	-2.857
2/9/07	01:29:00	803.000	841.000	1633.000	451.000	308.000	33.291	13.227	16.481	-1.312
2/9/07	01:30:00	810.000	854.000	1632.000	449.000	308.000	33.321	13.045	4.256	-1.721
2/9/07	01:31:00	817.000	864.000	1634.000	449.000	309.000	36.147	12.510	11.048	-0.303
2/9/07	01:32:00	822.000	865.000	1637.000	456.000	309.000	37.502	12.230	23.243	-1.110
2/9/07	01:33:00	825.000	864.000	1639.000	456.000	309.000	33.791	12.468	12.668	0.000
2/9/07	01:34:00	824.000	863.000	1640.000	438.000	309.000	30.165	12.188	12.435	-1.169
2/9/07	01:35:00	827.000	861.000	1638.000	450.000	308.000	33.285	12.272	14.563	0.000
2/9/07	01:36:00	828.000	859.000	1638.000	450.000	308.000	34.450	12.212	10.263	-0.005
2/9/07	01:37:00	824.000	853.000	1639.000	449.000	308.000	39.895	12.386	4.611	-0.329
2/9/07	01:38:00	820.000	844.000	1639.000	455.000	308.000	38.552	11.350	5.284	-1.751
2/9/07	01:39:00	814.000	835.000	1636.000	452.000	308.000	36.953	12.331	13.267	-0.125
2/9/07	01:40:00	810.000	831.000	1634.000	454.000	309.000	35.262	12.451	4.242	-0.004
2/9/07	01:41:00	809.000	835.000	1637.000	447.000	309.000	34.597	13.212	13.345	-1.232
2/9/07	01:42:00	814.000	853.000	1640.000	458.000	309.000	30.996	12.445	5.707	-2.076
2/9/07	01:43:00	821.000	870.000	1640.000	456.000	309.000	32.900	12.449	13.565	-0.003
2/9/07	01:44:00	827.000	878.000	1640.000	452.000	309.000	36.599	12.655	9.252	-1.716
2/9/07	01:45:00	830.000	875.000	1637.000	450.000	309.000	36.385	11.322	15.060	-0.350
2/9/07	01:46:00	829.000	862.000	1637.000	453.000	310.000	39.535	11.571	9.874	-1.319
2/9/07	01:47:00	825.000	849.000	1637.000	452.000	309.000	32.241	12.365	6.251	-0.010
2/9/07	01:48:00	820.000	841.000	1636.000	449.000	309.000	39.120	12.270	9.076	-0.455
2/9/07	01:49:00	815.000	833.000	1635.000	452.000	309.000	36.092	12.998	4.100	-0.989
2/9/07	01:50:00	810.000	826.000	1636.000	452.000	309.000	34.572	12.885	18.886	-0.395
2/9/07	01:51:00	807.000	834.000	1641.000	446.000	309.000	31.087	13.719	5.697	-1.484
2/9/07	01:52:00	809.000	841.000	1640.000	446.000	308.000	33.046	13.498	5.906	-0.778
2/9/07	01:53:00	811.000	842.000	1636.000	454.000	308.000	44.888	13.111	17.908	-0.103
2/9/07	01:54:00	809.000	840.000	1625.000	446.000	309.000	29.390	13.365	5.341	-0.984
2/9/07	01:55:01	805.000	828.000	1621.000	450.000	309.000	37.356	13.049	12.824	-0.997
2/9/07	01:56:01	801.000	822.000	1624.000	448.000	309.000	30.275	14.402	15.517	-0.016
2/9/07	01:57:01	799.000	828.000	1625.000	448.000	309.000	40.164	14.777	8.721	-1.690
2/9/07	01:58:01	802.000	834.000	1620.000	451.000	309.000	35.415	14.610	4.032	-0.787
2/9/07	01:59:01	807.000	848.000	1614.000	452.000	309.000	37.710	14.909	5.839	-1.796
2/9/07	02:00:01	816.000	859.000	1612.000	446.000	309.000	34.109	13.678	9.221	-1.047
2/9/07	02:01:01	818.000	852.000	1610.000	452.000	309.000	35.836	13.651	14.451	-0.012
2/9/07	02:02:01	817.000	843.000	1614.000	451.000	309.000	36.404	13.308	9.698	-1.893
2/9/07	02:03:01	815.000	834.000	1611.000	455.000	309.000	42.849	14.478	12.192	-0.396
2/9/07	02:04:01	812.000	831.000	1610.000	447.000	310.000	43.533	14.348	6.204	-0.032
2/9/07	02:05:01	808.000	829.000	1612.000	453.000	309.000	36.819	13.975	3.843	-1.134
2/9/07	02:06:01	805.000	826.000	1612.000	450.000	309.000	45.004	14.374	7.567	-0.008
2/9/07	02:07:01	801.000	820.000	1614.000	450.000	309.000	36.379	14.579	6.715	-0.068
2/9/07	02:08:01	796.000	819.000	1614.000	453.000	310.000	37.435	14.598	5.240	-1.918

Appendix G - ESMI Direct TDU PoP CPMS Data

Date	Time	TE5A_ENG	TE5B_ENG	TE12_ENG	TE13A_ENG	TE14_ENG	FI9_ENG	CO_CORRE	PI15_ENG	PT6_ENG
		Dryer Discharge Soil	Dryer Exhaust Gas	Oxidizer Exhaust Gas	Quench Exhaust Temp	B.H. Outlet Gas	Feed Rate (ton/hr)	CO (@7% O2)	B.H. dP	Dryer Pressure (in. W.C.)
2/9/07	02:09:01	794.000	821.000	1611.000	450.000	310.000	35.885	14.745	8.311	-2.409
2/9/07	02:10:01	793.000	821.000	1608.000	451.000	310.000	35.403	14.522	11.136	-0.632
2/9/07	02:11:01	790.000	818.000	1606.000	452.000	310.000	39.004	14.013	18.653	-1.655
2/9/07	02:12:01	786.000	808.000	1603.000	446.000	310.000	36.404	15.941	7.202	0.000
2/9/07	02:13:01	773.000	798.000	1601.000	452.000	309.000	35.702	15.284	8.180	-0.659
2/9/07	02:14:01	770.000	797.000	1605.000	454.000	310.000	34.231	16.348	15.304	-2.215
2/9/07	02:15:01	774.000	815.000	1614.000	449.000	310.000	39.456	16.233	4.841	-0.010
2/9/07	02:16:01	786.000	833.000	1619.000	456.000	310.000	35.207	15.987	15.727	-0.010
2/9/07	02:17:01	796.000	844.000	1624.000	457.000	311.000	39.040	14.987	5.396	-0.643
2/9/07	02:18:01	803.000	858.000	1626.000	449.000	310.000	38.485	13.747	15.195	-1.721
2/9/07	02:19:01	812.000	863.000	1625.000	450.000	310.000	29.988	13.664	17.066	0.000
2/9/07	02:20:01	815.000	856.000	1622.000	455.000	310.000	40.042	13.395	16.880	-0.384
2/9/07	02:21:02	812.000	845.000	1622.000	446.000	310.000	35.213	13.282	9.597	-1.771
2/9/07	02:22:02	806.000	832.000	1621.000	448.000	310.000	43.802	13.865	9.898	-1.487
2/9/07	02:23:02	800.000	827.000	1618.000	451.000	310.000	39.394	14.211	11.924	-2.105
2/9/07	02:24:02	797.000	823.000	1619.000	448.000	310.000	40.280	14.077	10.172	-1.895
2/9/07	02:25:02	796.000	822.000	1619.000	449.000	310.000	35.317	14.467	5.829	-0.743
2/9/07	02:26:02	797.000	829.000	1622.000	455.000	310.000	38.552	15.272	13.345	-1.395
2/9/07	02:27:02	801.000	836.000	1623.000	454.000	309.000	35.103	15.423	8.521	-0.008
2/9/07	02:28:02	806.000	842.000	1624.000	451.000	310.000	44.790	14.572	15.395	-0.270
2/9/07	02:29:02	808.000	846.000	1625.000	458.000	310.000	37.618	14.121	12.878	-1.988
2/9/07	02:30:02	810.000	846.000	1625.000	457.000	310.000	34.377	14.029	20.882	-0.007
2/9/07	02:31:02	806.000	837.000	1624.000	456.000	310.000	33.120	14.348	2.216	-1.491
2/9/07	02:32:02	794.000	822.000	1621.000	450.000	310.000	40.505	14.175	2.469	-0.005
2/9/07	02:33:02	783.000	803.000	1617.000	450.000	310.000	38.125	13.944	9.120	-1.185
2/9/07	02:34:02	771.000	793.000	1616.000	451.000	310.000	41.036	16.623	8.555	-0.914
2/9/07	02:35:02	763.000	789.000	1616.000	451.000	310.000	36.721	17.334	7.435	-1.072

Appendix H

ESMI Operator Logs

NYDEC Site 4-47-028 Freemans Bridge Road (FBR)

LTTD Operations Log

DATE	2/0/07			Natural Gas Begin (MCF):		Start Warm-up:	Running
DAY	Friday			Natural Gas End (MCF):	15855	Start Soil Input:	7059.5
Operators	a.m. Tyler	p.m. Steve	night: John	Gas Used (MCF):	15855	Stop Soil Input:	
Weather	a.m. Pt Cloudy	p.m.	night: Cold/windy/snow	Electric Start - reading 1 (kWh):	778	Total Tons:	112.5
Notes:				Electric End (kWh):		Production Hours:	3
				Electric Used (End-Start)x160:	-124480	Average Tons/hr	37.5

[illegible]

Notes/AWFSO:

ESMI of New York
NYDEC Site 4-47-028 Freeman's Bridge Road (FBR)
LTTD Operations Log

DATE	2/0/07			Natural Gas Begin (MCF):	15855	Start Warm-up:	Running
DAY	Friday			Natural Gas End (MCF):	17330	Start Soil Input:	7059.5
Operators	a.m. Tyler	p.m. Steve	night: John	Gas Used (MCF):	1475	Stop Soil Input:	7916.8
Weather	a.m. Pt Cloudy	p.m.	night: Cold/windy/snow	Electric Start - reading 1 (kWh):	778	Total Tons:	857.3
Notes:				Electric End (kWh):	835	Production Hours:	23
Electric Used (End-Start)x160:				9120	Average Tons/hr	37.3	

	ECC	BH	BH	BH	PTU	ID	PTU	Soil	PTU	PTU	Disch.	STU	STU	Scale	Tons	Post Treat	
Time	Water	Inlet	Diff.	Outlet	SUCTION	Fan	DRUM	Feeder	Burner	Exit	Soil	Burner	Exit	Totalizer	This	Batch	CO
	Output %	Temp. °F	Press.	Temp. °F	(IN W.C.)	Setting %	SPEED %	Setting	Output	Temp. °F	Temp. °F	Output %	Temp. °F	Reading	Hour	#	Reading
0100	61.1	445	4	308	0.2	94	50	290	66	812	772	71	1634	7099	39.5	8	14.45
0200	61.2	444	4	309	0.18	94	50	310	67	836	805	70	1616	7137	38	8	12.98
0300	57.2	442	4	310	0.18	94	50	290	67	849	815	70	1715	7172	35	8	8.16
0400	60.2	444	4	311	0.15	94	50	295	67	880	788	65	1650	7209	37	8	14
0500	60.6	445	4	309	0.15	94	50	275	68	852	789	70	1618	7246	37	8	15
0600	67.5	454	3	297	0.2	84	50	325	42	961	893	70	1622	7277	31	8	8
0700	61.1	446	4	302	0.16	94	50	275	72	797	770	70	1644	7312	35	8	10
0800	61	443	3.8	302	0.16	94	50	297	78.2	796	771	65	1593	7348	36	8	14
0900	61.7	440	3.8	302	0.1	94	52	295	85	915	832	65	1590	7386	38	8	13
1000	62.5	443	4	300	0.12	94	53	307	88.7	837	807	72.7	1571	7423	37	8	17
1100	62	442	4	298	0.12	94	44	340	95	817	756	69.5	1610	7460	37	8	17
1200	59.1	449	4	302	0.22	94	46	350	90	982	850	62	1602	7498	38	8	11
1300	60.9	446	4.4	302	0.1	94	54	330	70	819	794	64	1630	7538	40	8	18
1400	62.4	443	4.2	306	0.1	94	58	335	69	835	799	67	1635	7579	41	8	28
1500	59.6	443	4.2	307	0.1	94	51	335	69	842	790	60	1662	7623	44	8	21
1600	61.4	449	4	309	0.1	94	52	330	69	881	817	70	1567	7666	43	8	35
1700	58.4	444	4	309	0.1	94	51	310	69	892	830	65	1658	7708	42	8	22
1800	57	450	4	314	0.1	94	51	310	66.6	957	914	60	1665	7748	40	8	9
1900	59	444	4	307	0.18	94	53	320	66.6	888	850	60	1641	7790	42	8	11
2000														7792	2	8	
2100															-7792	8	
2200	61.6	441	4.2	307	0.18	94	53	290	66	891	821	56	1686	7831	7831	8	5
2300	61.7	441	4.2	311	0.1	94	52	330	66	842	794	70	1649	7874	43	8	11
0000	58	445	4.2	310	0.1	94	52	330	66	871	882	60	1697	7916.8	42.8	8	8

Notes/AWFSO:

0550 Feed hopper stopped up 0600 restart

1745 AWFSO due to refrigerator overcooling adjust temp on refrigerator

1810 Stopped feed frozen soil 1813 restart

1910 stopped feed pugmill plugged with steel 2100 restart

ESMI of New York
NYDEC Site 4-47-028 Freeman's Bridge Road (FBR)
LTTD Operations Log

DATE	2/0/07			Natural Gas Begin (MCF):	15855	Start Warm-up:	Running
DAY	Friday			Natural Gas End (MCF):	17330	Start Soil Input:	7059.5
Operators	a.m. Tyler	p.m. Steve	night: John	Gas Used (MCF):	1475	Stop Soil Input:	7916.8
Weather	a.m. Pt Cloudy	p.m.	night: Cold/windy/snow	Electric Start - reading 1 (kWh):	778	Total Tons:	857.3
Notes:				Electric End (kWh):	835	Production Hours:	23
Electric Used (End-Start)x160:				9120	Average Tons/hr	37.3	

	ECC	BH	BH	BH	PTU	ID	PTU	Soil	PTU	PTU	Disch.	STU	STU	Scale	Tons	Post Treat	
Time	Water	Inlet	Diff.	Outlet	SUCTION	Fan	DRUM	Feeder	Burner	Exit	Soil	Burner	Exit	Totalizer	This	Batch	CO
	Output %	Temp. °F	Press.	Temp. °F	(IN W.C.)	Setting %	SPEED %	Setting	Output	Temp. °F	Temp. °F	Output %	Temp. °F	Reading	Hour	#	Reading
0100	61.1	445	4	308	0.2	94	50	290	66	812	772	71	1634	7099	39.5	8	14.45
0200	61.2	444	4	309	0.18	94	50	310	67	836	805	70	1616	7137	38	8	12.98
0300	57.2	442	4	310	0.18	94	50	290	67	849	815	70	1715	7172	35	8	8.16
0400	60.2	444	4	311	0.15	94	50	295	67	880	788	65	1650	7209	37	8	14
0500	60.6	445	4	309	0.15	94	50	275	68	852	789	70	1618	7246	37	8	15
0600	67.5	454	3	297	0.2	84	50	325	42	961	893	70	1622	7277	31	8	8
0700	61.1	446	4	302	0.16	94	50	275	72	797	770	70	1644	7312	35	8	10
0800	61	443	3.8	302	0.16	94	50	297	78.2	796	771	65	1593	7348	36	8	14
0900	61.7	440	3.8	302	0.1	94	52	295	85	915	832	65	1590	7386	38	8	13
1000	62.5	443	4	300	0.12	94	53	307	88.7	837	807	72.7	1571	7423	37	8	17
1100	62	442	4	298	0.12	94	44	340	95	817	756	69.5	1610	7460	37	8	17
1200	59.1	449	4	302	0.22	94	46	350	90	982	850	62	1602	7498	38	8	11
1300	60.9	446	4.4	302	0.1	94	54	330	70	819	794	64	1630	7538	40	8	18
1400	62.4	443	4.2	306	0.1	94	58	335	69	835	799	67	1635	7579	41	8	28
1500	59.6	443	4.2	307	0.1	94	51	335	69	842	790	60	1662	7623	44	8	21
1600	61.4	449	4	309	0.1	94	52	330	69	881	817	70	1567	7666	43	8	35
1700	58.4	444	4	309	0.1	94	51	310	69	892	830	65	1658	7708	42	8	22
1800	57	450	4	314	0.1	94	51	310	66.6	957	914	60	1665	7748	40	8	9
1900	59	444	4	307	0.18	94	53	320	66.6	888	850	60	1641	7790	42	8	11
2000													7792		2	8	
2100															-7792	8	
2200	61.6	441	4.2	307	0.18	94	53	290	66	891	821	56	1686	7831	7831	8	5
2300	61.7	441	4.2	311	0.1	94	52	330	66	842	794	70	1649	7874	43	8	11
0000	58	445	4.2	310	0.1	94	52	330	66	871	882	60	1697	7916.8	42.8	8	8

Notes/AWFSO:

0550 Feed hopper stopped up 0600 restart

1745 AWFSO due to refrigerator overcooling adjust temp on refrigerator

1810 Stopped feed frozen soil 1813 restart

1910 stopped feed pugmill plugged with steel 2100 restart

Appendix I

Example DRE Calculation

34 Freeman's Bridge Road
Direct Fired TDU Proof-of-Performance Test
POHC (pyrene) DRE Run #1

$$POHC \text{ Emissions Rate, } M0010 = (Emission \text{ Flow Rate}) \times (POHC \text{ Concentration})$$

$$= 18,201 \frac{\text{dry std ft}^3}{\text{min}} \times 60 \frac{\text{min}}{\text{hr}} \times \frac{3.1 \mu\text{g POHC}}{115.97 \text{ ft}^3 \text{ sample vol}} \times \frac{1 \text{ lb}}{454 \text{ g}} \times 10^{-6} \frac{\text{g}}{\mu\text{g}}$$

$$POHC \text{ Emissions Rate, } M0010 = 6.43 \times 10^{-5} \frac{\text{lb POHC}}{\text{hr}}$$

$$POHC \text{ DRE} = 100 \times \left(1 - \frac{POHC \text{ Emissions Rate}}{POHC \text{ Feed Rate}}\right)$$

$$= 100 \times \left[1 - \frac{6.43 \times 10^{-5} \text{ lb POHC emission/hr}}{39.2 \frac{\text{ton-soil}}{\text{hr}} \times 2000 \frac{\text{lb}}{\text{ton}} \times 17 \text{ ppm POHC} \times 10^{-6} \frac{\text{lb-POHC}}{\text{lb-soil}}}\right]$$

$$POHC \text{ DRE} = 99.995\%$$

Appendix J

Visible Emissions Opacity Data

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME **ESMI of New York**

LOCATION **34 Freemans Bridge Rd.**

LOCATION **FBR-05T 4**

CITY **Glenville** STATE **NY** ZIP **12302**

PROCESS EQUIPMENT **LTIDK - Direct** OPERATING MODE **Normal**

CONTROL EQUIPMENT **Boilerhouse** OPERATING MODE **Normal**

DESCRIBE EMISSION POINT **Rectangular stack**

HEIGHT OF EMISSION POINT **38 feet** HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER **+32'** START ☒ END ☒

DISTANCE TO EMISSION POINT **150 feet** DIRECTION TO EMISSION PT. (DEGREES (0-360)) **42°** START ☒ END ☒

VERTICAL ANGLE TO OBSERVATION POINT **12°** DIRECTION TO OBSERVATION POINT (DEGREES (0-360)) **42°** START ☒ END ☒

DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT

START ☐ END ☐

DESCRIBE EMISSIONS **White steam** START ☐ END ☒

EMISSION COLOR **White** WATER DROPLET PLUME **3 feet** START ☐ END ☒

ATTACHED ☐ DETACHED ☒ NONE ☐

DESCRIBE PLUME BACKGROUND **Overcast** START ☐ END ☒

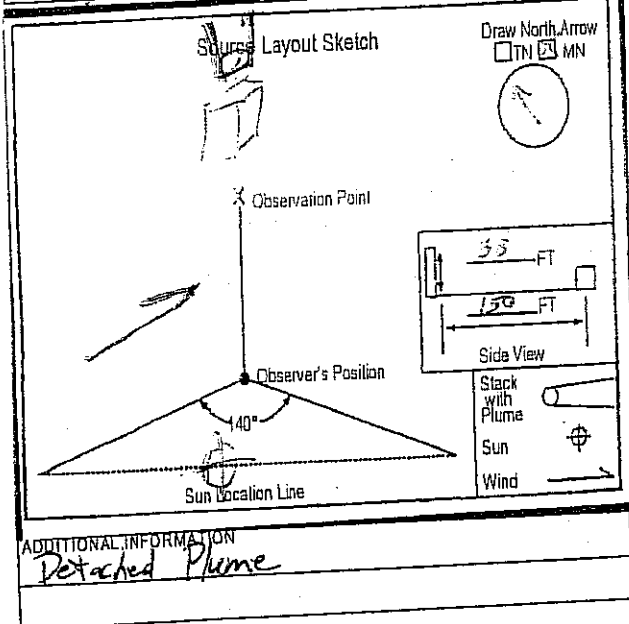
BACKGROUND COLOR **Cloudy/Grey** SKY CONDITIONS **Overcast Rain** START ☐ END ☒

WIND SPEED **0-2 MPH** WIND DIRECTION **S-SW** START ☐ END ☒

AMBIENT TEMP **52** WET BULB TEMP **79** RH percent **72** START ☐ END ☒

OBSERVATION DATE **3/14/07** START TIME **16:00** END TIME **17:00 EST**

MIN	SEC	0	15	30	45	COMMENTS
1		0	0	0	0	
2		0	0	0	0	
3		0	0	0	0	
4		0	0	0	0	
5		0	0	0	0	
6		0	0	0	0	
7		0	0	0	0	
8		0	0	0	0	
9		0	0	0	0	
10		0	0	0	0	
11		0	0	0	0	
12		0	0	0	0	
13		0	0	0	0	
14		0	0	0	0	
15		0	0	0	0	
16		0	0	0	0	
17		0	0	0	0	
18		0	0	0	0	
19		0	0	0	0	
20		0	0	0	0	
21		0	0	0	0	
22		0	0	0	0	
23		0	0	0	0	
24		0	0	0	0	
25		0	0	0	0	
26		0	0	0	0	
27		0	0	0	0	
28		0	0	0	0	
29		0	0	0	0	
30		0	0	0	0	



OBSERVER'S NAME (PRINT) **Peter C. Hansen**

OBSERVER'S SIGNATURE **Peter C. Hansen** DATE **3/14/07**

ORGANIZATION **ESMI of New York**

CERTIFIED BY **Eastern Technical Associates** DATE **10/11/06**

EPA METHOD 9 (40 CFR 60 - Appendix A)
 VISIBLE EMISSION OBSERVATION FORM

COMPANY NAME
ESMI of New York

LOCATION
FBR-05T4

CITY
Glenville STATE
NY ZIP
12302

PROCESS EQUIPMENT
LTDDU - Direct OPERATING MODE
Normal

CONTROL EQUIPMENT
Baghouse OPERATING MODE
Normal

DESCRIBE EMISSION POINT

Rectangular Stack

HEIGHT OF EMISSION POINT
38 feet

HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER
+ 32'

DISTANCE TO EMISSION POINT
150 feet

START END
12°

DIRECTION TO EMISSION PT. (DEGREES 0-360)
42°

DIRECTION TO OBSERVATION POINT (DEGREES 0-360)
42°

DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT
150' - 42°

DESCRIBE EMISSIONS
White Steam

START END
White

WATER DROPLET PLUME **3 feet**

ATTACHED ☐ DETACHED ☒ NONE ☐

DESCRIBE PLUME BACKGROUND
Overcast

START END
Cloudy/Gray

SKY CONDITIONS
Overcast

WIND SPEED
0-2 MPH

WIND DIRECTION
S-SW

WET BULB TEMP
92

RH percent
92

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

Observer's Position

Observer Point

140°

Sun Location Line

Side View

Stack with Plume

Sun

Wind

ADDITIONAL INFORMATION
Detached Plume 3 feet
Light Rain

OBSERVATION DATE
3/14/07

START TIME
16:00

END TIME
17:00

SEC	0	15	30	45	COMMENTS
1	0	0	0	0	Start Sprinkler Rain
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	Plume folding to NW
21	0	0	0	0	Plume detached 3'
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	Plume straight up
27	0	0	0	0	Plume 50' NW
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

OBSERVER'S NAME (PRINT)
Peter C. Hansen

OBSERVER'S SIGNATURE
Peter C. Hansen DATE
3/14/07

ORGANIZATION
ESMI of New York

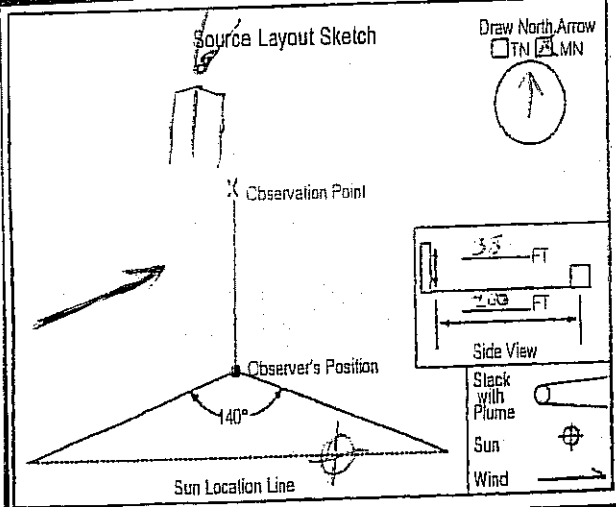
CERTIFIED BY
Eastern Technical Associates DATE
10/11/06

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME <i>ESMI of New York</i>	
LOCATION <i>FBR - 05T4</i>	
LOCATION <i>344 Freemans Bridge Rd.</i>	
CITY <i>Glenville</i>	STATE <i>NY</i>
ZIP <i>12302</i>	
PROCESS EQUIPMENT <i>LTTD - Direct</i>	OPERATING MODE <i>Normal</i>
CONTROL EQUIPMENT <i>Baghouse</i>	OPERATING MODE <i>Normal</i>
DESCRIBE EMISSION POINT <i>Rectangular Stack</i>	
HEIGHT OF EMISSION POINT <i>38 feet</i>	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER <i>38</i>
DISTANCE TO EMISSION POINT <i>200 feet</i>	DIRECTION TO EMISSION PT. (DEGREES 0-360) <i>350°</i>
VERTICAL ANGLE TO OBSERVATION POINT <i>10.8°</i>	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) <i>350°</i>
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT <i>200 feet 350°</i>	
DESCRIBE EMISSIONS <i>White Steam</i>	
EMISSION COLOR <i>White</i>	WATER DROPLET PLUME ☐ ATTACHED ☒ DETACHED ☐ NONE ☐
DESCRIBE PLUME BACKGROUND <i>Blue/Light sky</i>	
BACKGROUND COLOR <i>Blue/Light sky</i>	SKY CONDITIONS <i>Partly Cloudy</i>
WIND SPEED <i>0-2 MPH</i>	WIND DIRECTION <i>W-SW</i>
AMBIENT TEMP <i>54°</i>	WET BULB TEMP <i>54</i>

OBSERVATION DATE <i>3/14/07</i>	START TIME <i>11:00</i>	END TIME <i>12:00 EST</i>
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MIN	SEC				COMMENTS
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	Plume detached 10 ft +
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	



OBSERVER'S NAME (PRINT) <i>Peter C. Hansen</i>	
OBSERVER'S SIGNATURE <i>Peter C. Hansen</i>	DATE <i>3/14/07</i>
ORGANIZATION <i>ESMI of New York</i>	
CERTIFIED BY <i>Eastern Technical Associates</i>	DATE <i>10/11/06</i>

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME ESMI of New York	
LOCATION FBR-03T4	
LOCATION 34 Freemans Bridge Rd.	
CITY Glenville	STATE NY
ZIP 12302	
PROCESS EQUIPMENT LTTD - Direct	OPERATING MODE Normal
CONTROL EQUIPMENT Baghouse	OPERATING MODE Normal
DESCRIBE EMISSION POINT Rectangular Stack	
HEIGHT OF EMISSION POINT 38 feet	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER +38
DISTANCE TO EMISSION POINT 200 feet	DIRECTION TO EMISSION PT. (DEGREES 0-360) 350°
START END	START END
VERTICAL ANGLE TO OBSERVATION POINT	DIRECTION TO OBSERVATION POINT (DEGREES 0-360)
START END	START 350° END
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT	
START 200 ft END 350°	
DESCRIBE EMISSIONS White steam	
START END	END ☒
EMISSION COLOR White	WATER DROPLET PLUME
START END	ATTACHED ☐ DETACHED ☒ NONE ☐
DESCRIBE PLUME BACKGROUND Light Sky	
START END	END
BACKGROUND COLOR Blue / Light Sky	SKY CONDITIONS Partly Cloudy
START END	START END
WIND SPEED 0-2 MPH	WIND DIRECTION W-SW
START END	START END
AMBIENT TEMP 54	WET BULB TEMP 54
START 54 END 53	RH percent 54

OBSERVATION DATE 3/14/07	START TIME 11:00	END TIME 12:00 EST
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MIN	SEC				COMMENTS
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	0	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	Plume detached 15' +
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

Observer's Position

140°

Sun Location Line

Side View

Stack with Plume

Sun

Wind

ADDITIONAL INFORMATION

Plume Detached

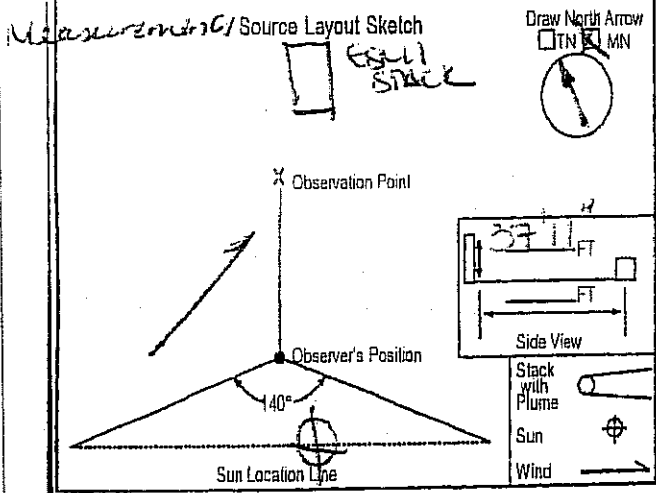
OBSERVER'S NAME (PRINT) Peter C. Hansen	
OBSERVER'S SIGNATURE <i>Peter C. Hansen</i>	DATE 3/14/07
ORGANIZATION ESMI Companies	
CERTIFIED BY Eastern Technical Associates	DATE 10/11/06

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME ESMIL COMPANIES	
LOCATION 34 Freeman's Bridge Road	
LOCATION	
CITY Glenville	STATE New York
ZIP 12302	
PROCESS EQUIPMENT LTDU - DIRECT	OPERATING MODE Manual
CONTROL EQUIPMENT BAATHOUSE	OPERATING MODE Manual
DESCRIBE EMISSION POINT Steel at exit of Baathouse steel-square stack	
HEIGHT OF EMISSION POINT 37' 11"	HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER 37' 11" START END ✓
DISTANCE TO EMISSION POINT 210' START END ✓	DIRECTION TO EMISSION PT. (DEGREES 0-360) 240° START END ✓
VERTICAL ANGLE TO OBSERVATION POINT 6.47° START END ✓	DIRECTION TO OBSERVATION POINT (DEGREES 0-360) 240° START END ✓
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT 210' W-NE START END ✓	
DESCRIBE EMISSIONS START Clear END ✓	
EMISSION COLOR Clear START END	WATER DROPLET PLUME ATTACHED ☐ DETACHED ☐ NONE ☒
DESCRIBE PLUME BACKGROUND START Grey END ✓	
BACKGROUND COLOR Grey START END ✓	SKY CONDITIONS mostly cloudy START END ✓
WIND SPEED 0-3 mph START END ✓	WIND DIRECTION S-SW START END ✓
AMBIENT TEMP 47°F START END	WET BULB TEMP RH percent

OBSERVATION DATE 14 March 2007	START TIME 1349	END TIME 1449
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MIN	SEC				COMMENTS
	0	15	30	45	
1	0	0	0	0	
2	0	0	0	0	
3	0	0	0	0	
4	0	5	0	0	
5	0	0	0	0	
6	0	0	0	0	
7	0	0	0	0	
8	0	0	0	0	
9	0	0	0	0	
10	0	0	0	0	
11	0	0	0	0	
12	0	0	0	0	
13	0	0	0	0	
14	0	0	0	0	
15	0	0	0	0	
16	0	0	0	0	
17	0	0	0	0	
18	0	0	0	0	
19	0	0	0	0	
20	0	0	0	0	
21	0	0	0	0	
22	0	0	0	0	
23	0	0	0	0	
24	0	0	0	0	
25	0	0	0	0	
26	0	0	0	0	Rain Drops
27	0	0	0	0	
28	0	0	0	0	
29	0	0	0	0	
30	0	0	0	0	



ADDITIONAL INFORMATION
**standing on Material pile
on site road around T&E facility**

OBSERVER'S NAME (PRINT) Robert E. Martin	
OBSERVER'S SIGNATURE <i>Robert E. Martin</i>	DATE March 14, 2007
ORGANIZATION ESMIL COMPANIES	
CERTIFIED BY Eastern Technical Associates	DATE 10/11/06

**EPA METHOD 9 (40 CFR 60 - Appendix A)
VISIBLE EMISSION OBSERVATION FORM**

COMPANY NAME ESNII COMPANIES		
LOCATION 34 Freeman's Bridge Road		
LOCATION		
CITY Glenville	STATE New York	ZIP 12302
PROCESS EQUIPMENT LTDLI-DIRECT		OPERATING MODE Normal
CONTROL EQUIPMENT BAITRAISE		OPERATING MODE Normal
DESCRIBE EMISSION POINT Stack exit to Baghouse Steel-Square steel		
HEIGHT OF EMISSION POINT 37'-11"		HEIGHT OF EMISSION POINT RELATIVE TO OBSERVER START 31' END 11' ✓
DISTANCE TO EMISSION POINT START 210' END ✓		DIRECTION TO EMISSION PT. (DEGREES 0-360) START 240 END ✓
VERTICAL ANGLE TO OBSERVATION POINT START 8.47 END ✓		DIRECTION TO OBSERVATION POINT (DEGREES 0-360) START 240 END ✓
DISTANCE & DIRECTION TO OBSERVATION POINT FROM EMISSION POINT START 210 W-4E END ✓		
DESCRIBE EMISSIONS		
START Clear END ✓		
EMISSION COLOR START Clear END ✓		
WATER DROPLET PLUME START ☒ END ☒		
ATTACHED ☐ DETACHED ☐ NONE ☒		
DESCRIBE PLUME BACKGROUND		
START Sky/Grey END ✓		
BACKGROUND COLOR START Grey END ✓		SKY CONDITIONS START partly cloudy END ✓
WIND SPEED START 0-3 mph END ✓		WIND DIRECTION START SSW END ✓
AMBIENT TEMP START 44 END 48		WET BULB TEMP START 47 END 47

OBSERVATION DATE 14 March 2007	START TIME 1349	END TIME 1449
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MIN	SEC	0	15	30	45	COMMENTS
1		☐	☐	☐	☐	
2		☐	☐	☐	☐	
3		☐	☐	☐	☐	
4		☐	☐	☐	☐	Rain Stop
5		☐	☐	☐	☐	Background Green/White
6		☐	☐	☐	☐	
7		☐	☐	☐	☐	
8		☐	☐	☐	☐	Rain Drops
9		☐	☐	☐	☐	
10		☐	☐	☐	☐	
11		☐	☐	☐	☐	
12		☐	☐	☐	☐	
13		☐	☐	☐	☐	
14		☐	☐	☐	☐	
15		☐	☐	☐	☐	
16		☐	☐	☐	☐	
17		☐	☐	☐	☐	
18		☐	☐	☐	☐	
19		☐	☐	☐	☐	
20		☐	☐	☐	☐	
21		☐	☐	☐	☐	
22		☐	☐	☐	☐	
23		☐	☐	☐	☐	
24		☐	☐	☐	☐	Rain Steady
25		☐	☐	☐	☐	
26		☐	☐	☐	☐	
27		☐	☐	☐	☐	
28		☐	☐	☐	☐	
29		☐	☐	☐	☐	
30		☐	☐	☐	☐	

Source Layout Sketch

Draw North Arrow
☐ TN ☐ MN

Observer's Position

Observer's Position

140°

Sun Location Line

Side View

Stack with Plume

Sun

Wind

ADDITIONAL INFORMATION

OBSERVER'S NAME (PRINT) Robert R Martin	DATE March 15, 2007
OBSERVER'S SIGNATURE <i>Robert R Martin</i>	DATE March 15, 2007
ORGANIZATION ESNII Companies	
CERTIFIED BY Eastern Technical Associates	DATE 12/11/06

Date	Time	Temp Out	Hi Temp	Low Temp	Out Hum	Dew Pt.	Wind Speed	Wind Dir	Wind Run	Hi Speed	Hi Dir	Wind Chill	Heat Index	THW Index	Bar	Rain Rate	Rain Rate	Heat D-D	Cool D-D
3/14/07	12:30a	43.3	45.9	43.3	66	32.7	0.0	WSW	0.00	2.0	SW	43.3	42.6	42.6	29.931	0.00	0.00	0.452	0.000
3/14/07	1:00a	41.4	43.3	41.4	70	32.3	0.0	WSW	0.00	3.0	WSW	41.4	40.8	40.8	29.939	0.00	0.00	0.492	0.000
3/14/07	1:30a	40.0	41.3	40.0	75	32.7	0.0	WSW	0.00	2.0	WSW	40.0	39.5	39.5	29.932	0.00	0.00	0.521	0.000
3/14/07	2:00a	38.6	40.0	38.6	76	31.7	0.0	WSW	0.00	2.0	WSW	38.6	38.2	38.2	29.935	0.00	0.00	0.550	0.000
3/14/07	2:30a	37.6	38.6	37.6	79	31.7	0.0	WSW	0.00	2.0	WSW	37.6	37.3	37.3	29.934	0.00	0.00	0.571	0.000
3/14/07	3:00a	36.8	37.7	36.8	82	31.8	0.0	WSW	0.00	2.0	WSW	36.8	36.5	36.5	29.930	0.00	0.00	0.588	0.000
3/14/07	3:30a	36.0	36.8	36.0	84	31.6	0.0	WSW	0.00	4.0	WSW	36.0	35.8	35.8	29.923	0.00	0.00	0.604	0.000
3/14/07	4:00a	35.5	36.0	35.5	84	31.1	0.0	---	0.00	0.0	---	35.5	35.3	35.3	29.918	0.00	0.00	0.615	0.000
3/14/07	4:30a	35.5	35.6	35.4	86	31.7	0.0	WSW	0.00	3.0	WSW	35.5	35.3	35.3	29.910	0.00	0.00	0.615	0.000
3/14/07	5:00a	35.7	35.8	35.5	86	31.9	0.0	E	0.00	4.0	ENE	35.7	35.5	35.5	29.909	0.00	0.00	0.610	0.000
3/14/07	5:30a	36.0	36.0	35.8	86	32.2	0.0	SSW	0.00	3.0	SSW	36.0	35.8	35.8	29.903	0.00	0.00	0.604	0.000
3/14/07	6:00a	36.4	36.4	36.0	85	32.3	0.0	WSW	0.00	2.0	W	36.4	36.2	36.2	29.897	0.00	0.00	0.596	0.000
3/14/07	6:30a	36.8	36.8	36.4	84	32.4	0.0	---	0.00	0.0	---	36.8	36.6	36.6	29.895	0.00	0.00	0.588	0.000
3/14/07	7:00a	36.7	36.9	36.7	82	31.7	0.0	WSW	0.00	2.0	WSW	36.7	36.4	36.4	29.895	0.00	0.00	0.590	0.000
3/14/07	7:30a	36.7	36.8	36.4	83	32.0	0.0	WSW	0.00	2.0	WSW	36.7	36.5	36.5	29.896	0.00	0.00	0.590	0.000
3/14/07	8:00a	37.5	37.5	36.8	83	32.8	0.0	WSW	0.00	1.0	WSW	37.5	37.3	37.3	29.896	0.00	0.00	0.573	0.000
3/14/07	8:30a	38.8	38.8	37.5	83	34.1	0.0	---	0.00	0.0	---	38.8	38.6	38.6	29.898	0.00	0.00	0.546	0.000
3/14/07	9:00a	40.6	40.6	38.8	79	34.6	0.0	WSW	0.00	1.0	WSW	40.6	40.3	40.3	29.899	0.00	0.00	0.540	0.000
3/14/07	9:30a	44.2	44.2	40.6	72	35.7	0.0	WSW	0.00	1.0	WSW	44.2	43.7	43.7	29.894	0.00	0.00	0.433	0.000
3/14/07	10:00a	46.0	46.0	43.8	72	37.5	1.0	WSW	0.50	4.0	WSW	46.0	45.5	45.5	29.886	0.00	0.00	0.396	0.000
3/14/07	10:30a	50.4	50.4	46.0	66	39.5	1.0	WSW	0.50	3.0	WSW	50.4	49.8	49.8	29.874	0.00	0.00	0.304	0.000
3/14/07	11:00a	53.6	53.6	50.4	59	39.6	1.0	WSW	0.50	4.0	WSW	53.6	52.4	52.4	29.859	0.00	0.00	0.238	0.000
3/14/07	11:30a	56.2	56.2	53.6	56	40.7	1.0	W	0.50	4.0	W	56.2	54.7	54.7	29.844	0.00	0.00	0.183	0.000
3/14/07	12:00p	58.7	58.7	56.2	54	42.1	1.0	W	0.50	5.0	W	58.7	57.0	57.0	29.830	0.00	0.00	0.131	0.000
3/14/07	12:30p	62.6	62.7	58.7	48	42.6	1.0	W	0.50	4.0	SSW	62.6	60.5	60.5	29.818	0.00	0.00	0.050	0.000
3/14/07	1:00p	66.0	66.0	62.6	45	44.0	2.0	S	1.00	7.0	SSW	66.0	63.9	63.9	29.797	0.00	0.00	0.000	0.021
3/14/07	1:30p	65.9	66.4	65.7	46	44.5	2.0	ESE	1.00	5.0	ESE	65.9	63.9	63.9	29.782	0.00	0.00	0.000	0.019
3/14/07	2:00p	64.8	66.0	64.8	47	44.1	2.0	SSE	1.00	6.0	SE	64.8	62.8	62.8	29.778	0.00	0.00	0.004	0.000
3/14/07	2:30p	64.7	64.8	64.4	48	44.5	0.0	SE	0.00	4.0	SSE	64.7	62.8	62.8	29.774	0.00	0.00	0.006	0.000
3/14/07	3:00p	60.7	64.7	60.7	64	48.4	0.0	W	0.00	4.0	W	60.7	59.8	59.8	29.783	0.00	0.00	0.090	0.000
3/14/07	3:30p	54.7	60.6	54.6	76	47.3	1.0	WNW	0.50	7.0	W	54.7	54.2	54.2	29.814	0.00	0.00	0.215	0.000
3/14/07	4:00p	52.1	55.2	52.1	85	47.7	1.0	NE	0.50	5.0	SSW	52.1	52.1	52.1	29.802	0.02	0.08	0.269	0.000
3/14/07	4:30p	51.4	52.1	51.4	90	48.6	0.0	S	0.00	3.0	S	51.4	51.6	51.6	29.801	0.02	0.04	0.283	0.000
3/14/07	5:00p	49.4	51.4	49.4	92	47.2	0.0	S	0.00	4.0	SW	49.4	49.8	49.8	29.786	0.01	0.04	0.325	0.000

Date	Time	In Temp	In Hum	In Dew	In Heat	Wind Samp	Wind Tx	ISS Receipt	Arc. Int.
3/14/07	12:30a	67.5	32	36.6	64.1	700	1	100.0	30
3/14/07	1:00a	66.7	31	35.1	63.2	699	1	100.0	30
3/14/07	1:30a	66.6	31	35.0	63.1	698	1	100.0	30
3/14/07	2:00a	66.9	32	36.1	63.5	699	1	100.0	30
3/14/07	2:30a	67.0	31	35.3	63.5	699	1	100.0	30
3/14/07	3:00a	66.7	31	35.1	63.2	700	1	100.0	30
3/14/07	3:30a	66.4	31	34.8	62.9	701	1	100.0	30
3/14/07	4:00a	66.9	31	35.3	63.4	695	1	100.0	30
3/14/07	4:30a	66.7	30	34.3	63.1	697	1	100.0	30
3/14/07	5:00a	66.2	31	34.7	62.7	698	1	100.0	30
3/14/07	5:30a	66.2	31	34.7	62.7	698	1	100.0	30
3/14/07	6:00a	67.0	31	35.3	63.5	699	1	100.0	30
3/14/07	6:30a	66.6	30	34.2	63.0	699	1	100.0	30
3/14/07	7:00a	67.2	32	36.3	63.8	700	1	100.0	30
3/14/07	7:30a	67.7	32	36.8	64.3	699	1	100.0	30
3/14/07	8:00a	67.0	32	36.1	63.6	695	1	100.0	30
3/14/07	8:30a	67.4	32	36.5	64.0	696	1	100.0	30
3/14/07	9:00a	67.5	32	36.6	64.1	698	1	100.0	30
3/14/07	9:30a	67.5	33	37.4	64.2	701	1	100.0	30
3/14/07	10:00a	68.5	33	38.2	65.3	701	1	100.0	30
3/14/07	10:30a	69.9	34	40.2	66.7	698	1	100.0	30
3/14/07	11:00a	71.8	34	41.9	69.2	698	1	100.0	30
3/14/07	11:30a	73.6	34	43.5	72.0	702	1	100.0	30
3/14/07	12:00p	75.7	33	44.5	74.4	701	1	100.0	30
3/14/07	12:30p	76.6	32	44.5	75.4	703	1	100.0	30
3/14/07	1:00p	76.8	32	44.7	75.6	698	1	100.0	30
3/14/07	1:30p	76.6	31	43.7	75.3	701	1	100.0	30
3/14/07	2:00p	76.1	31	43.3	74.7	697	1	100.0	30
3/14/07	2:30p	75.9	33	44.7	74.6	702	1	100.0	30
3/14/07	3:00p	75.4	34	45.1	74.1	701	1	100.0	30
3/14/07	3:30p	74.9	36	46.1	73.8	700	1	100.0	30
3/14/07	4:00p	74.2	37	46.2	73.1	701	1	100.0	30
3/14/07	4:30p	73.5	38	46.3	72.2	700	1	100.0	30
3/14/07	5:00p	72.8	39	46.4	71.3	700	1	100.0	30

Appendix K

Perimeter Air Monitoring Data

JWhitehouse & Associates, Inc.

1569 New York Route 7
Troy, New York 12180
(518) 279-4891
(518) 279-0952 Facsimile

9 March 2007

Mr. Jay Bradshaw
D.A. Collins Environmental Services
101 Route 67, PO Box 191
Mechanicville, New York 12118

VIA ELECTRONIC MAIL (jbradshaw@dacollins.com)

Re: Review of Personal and Area Air Data – February 2007
34 Freeman's Bridge Road Site, Glenville, NY
JWA Project No. 0612060

Dear Jay:

Per your request, JWhitehouse & Associates, Inc. has reviewed the thirteen air sampling data sets collected at the Freeman's Bridge project in February provided to me by DA Collins. The following air data sets were reviewed: LIMIT 03638, 03762, 03763, 03764, 03814, 03815, 04084, 04085, 04086, 04087, 04088, 04225 and 04233. This data covers sampling conducted from February 1, 2007 through February 27, 2007. The data included six area air sample reports and seven personal air monitoring reports. The data provided by DA Collins and reviewed by JWhitehouse & Associates included area air sampling results for PCB (EPA method TO-4A), PAH (EPA method TO-13A), VOC (EPA method TO-15) and dust (PM₁₀) collected at the four stationary sampling locations and personal air monitoring for metals (including lead and mercury), respirable dust, PCB and VOC (EPA method TO-17).

Area Air Monitoring

Background air monitoring data was previously submitted and reviewed for the Freeman's Bridge project. This background data was used for comparison to the current area air monitoring data collected as the project progresses. The data discussed below represents 24-hour sampling data collected at each of four stationary air monitoring locations at the perimeter of the project site. A review of the data by analyte is summarized below.

Based on the review of this data, no additional work practices or changes in the specified PPE ensemble are needed to control area airborne contaminants.

PCB

The background air monitoring data collected in October 2006 for the Freeman's Bridge project did not detect PCB however further testing in December 2006 did indicate the presence of PCB 1242 at each of the four stationary sample stations. Background concentrations of PCB 1242 ranged from 0.0006 ug/m³ to 0.0011 ug/m³.

Five sets of area air samples collected in February 2007 had reportable concentrations of PCB 1242 on each of the days that samples were collected. PCB were detected on February 1 at stations 1 and 3. PCB were detected at sampling stations 1 and 2 on February 7, 9, 21 and 27. Reported PCB 1242 sample concentrations ranged from 0.0054 ug/m^3 to 0.0475 ug/m^3 . The highest PCB concentrations detected (0.0475 and 0.0235 ug/m^3) were collected on February 27. Detected PCB 1242 concentrations, although higher than the background and those reported on the January samples, appear to vary from day to day and likely reflect the activities and locations of the activities underway on each day samples were collected. Reported concentrations are well below the OSHA PEL for chlorodiphenyl (42% chlorine) of 1 mg/m^3 and chlorodiphenyl (54% chlorine) of 0.5 mg/m^3 .

PAH

Several PAH were identified on the October 2006 background samples. The PAH identified at each of the four locations included acenaphthene, acenaphthylene, anthracene, fluoranthene, fluorene, 1-methylnaphthalene, 2-methylnaphthalene, naphthalene, phenanthrene and pyrene. Naphthalene, 1-methylnaphthalene and 2-methylnaphthalene were present in the highest background concentrations, generally ranging from $1\text{-}5 \text{ ug/m}^3$.

PAH data was reviewed from five sampling days in February 2007. The majority of PAH included in the analysis were identified on the February samples with most compounds identified at each sampling station. The fewest compounds were detected on the February 7 samples however low levels of PAH were identified on the majority of samples collected throughout February. Naphthalene, 1-methylnaphthalene and 2-methylnaphthalene continue to be the compounds identified most consistently and in the highest concentrations on all samples. These reported concentrations however remain well below 1 ug/m^3 .

The PAH data appears to be similar to that identified in January; with all compounds identified below 1 ug/m^3 and the majority of compounds identified below 0.01 ug/m^3 . All PAH were detected in low concentrations and do not indicate any needed changes in work practice or PPE requirements.

VOC

Volatile organic compounds (VOC) were detected in parts per billion (ppb) concentrations at the four background sample stations. The VOC identified included acetone, ethanol (likely due to laboratory contamination), hexane, isopropanol, methyl ethyl ketone, toluene and vinyl acetate. VOC concentrations generally ranged from less than ($<$) 1 ppb to 5 ppb with acetone and toluene detected in highest concentrations on the background samples.

VOC samples were collected on February 1, 7, 9, 21 and 27. Samples collected in February identified VOC that were similar to the compounds present on the background samples. Fewer VOC were identified in February than on the January samples. Acetone and ethanol were reported on each of the days sampled however acetone and ethanol were also identified in the blank samples on some of the days. Methyl ethyl ketone, methylene chloride, isopropyl alcohol and toluene were among the other compounds identified. Most of the compounds were present in concentrations below 2 parts per billion with the exception of acetone (7.3 ppb) and ethanol

(6.3 ppb). All other compounds were reported as non-detect, typically less than 0.5 ppb. No benzene, ethyl benzene, tetrachloroethylene, trimethylbenzene or xylene was identified on the February samples.

The review of the VOC data indicates that airborne VOC identified were well below the 5 parts per million action level and do not indicate the need for changes in current work practices or personal protective equipment requirements.

PM₁₀

Background dust levels (PM₁₀) collected in October 2006 at the four sampling locations were all reported at 0.015 mg/m³ or less. PM₁₀ data from samples collected on January 25, February 1, 7, 9 and 27 were reviewed for comparison with the project background level and the contract action limit of 0.100 mg/m³. All sample results were below the action limit of 0.1 mg/m³, with the majority of sample results near or slightly above the background levels. The PM₁₀ results in February ranged from 0.011 mg/m³ to 0.099 mg/m³. The highest result was measured at sampling station 3 on February 1, 2007. Subsequent samples from this location were well below the 0.1 mg/m³ action limit.

Personal Exposure Monitoring

Personal air monitoring conducted on February 6, 8, 9, 13, 15, 20 and 22 was reviewed. This data represents both short term and full shift personal air sampling collected on project personnel working on the Freeman's Bridge remediation project site. Sampling was conducted on various project personnel for respirable dust, metals, mercury, PCB and TO-17 (organics). The result of this data review is summarized below.

Based on the personal air sample data received through February 22, the modified level D PPE ensemble established for the work site is appropriate for project personnel, with the exception of workers in the crusher pre-process area who upgraded to half-face respirators in January due to respirable dust concentrations above the work zone action level.

Metals

Personal air sampling for metals included analysis for the following metals; silver, arsenic, barium, cadmium, chromium, lead, selenium and mercury. Sampling for some or all of these metals was conducted on February 8, 13, 20 and 22. Chromium was detected on one personal sample on February 13. The reported chromium concentration on this sample was 0.2 ug/m³. No other metals were identified above the detection limits on any of the personal samples collected. Personal sampling conducted in February does not indicate any potential metal exposures approaching the respective OSHA permissible exposure limits (PEL).

Respirable Dust

Seven personal samples were collected to evaluate respirable dust exposures during February. Sample times ranged from 30-40 minutes to 4-5 hours in duration. The time-weighted average personal samples ranged from less than ($<$) 0.0094 mg/m^3 to 2.72 mg/m^3 . All the samples reported were well below the OSHA PEL of 5 mg/m^3 for respirable dust however four of the samples had detectable dust concentrations above the work zone action level of 0.100 mg/m^3 . Workers in the screening/crusher area continue to utilize half-face respirators for dust. The use of respiratory protection in the screening/crushing area should continue until subsequent personal samples show respirable dust levels below the established action level.

PCB

Three personal air samples were collected for PCB on February 8, 20 and 22. No airborne PCB was reported above the detection limits on any of the three personal samples collected.

TO-17

Two personal samples for organics (EPA method TO-17) were collected on February 8 and 15. These samples were analyzed for 65 organic compounds via gas chromatography/mass spectrometry. No organic compounds were identified above the detection limits on the February 8 sample and only acetone was detected on the February 15 sample. Acetone was detected at 1.32 parts per billion (ppb) with all other compounds reported as below the detection limit. The detection limits vary with each compound but were generally $<0.40 \text{ ppb}$. These results do not indicate potential personal exposures to volatile organic compounds during the project activities and personnel evaluated.

JWhitehouse & Associates appreciates the opportunity to work with DA Collins Environmental on the review of the Freeman's Bridge Road Site project air monitoring data. Please give me a call if there are any questions.

Sincerely,

Jane M. Whitehouse, CIH, CSP
President and Principal Consultant

cc: Keith Chadwick (kchadwick@dacollins.com)



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 2/14/2007

D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118
ATTN: KEITH CHADWICK

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMT-03814

JOB NUMBER: 2006-516

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: FBR

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
CA-AIR1-PM10-020	07B04237	AIR	NOT SPECIFIED	air special test
CA-AIR1-TO13-020	07B04245	AIR	NOT SPECIFIED	to-13
CA-AIR1-TO15-020	07B04241	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR1-TO15-020	07B04241	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR1-TO4-0209	07B04249	AIR	NOT SPECIFIED	to-4
CA-AIR2-PM10-020	07B04238	AIR	NOT SPECIFIED	air special test
CA-AIR2-TO13-020	07B04246	AIR	NOT SPECIFIED	to-13
CA-AIR2-TO15-020	07B04242	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR2-TO15-020	07B04242	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR2-TO4-0209	07B04250	AIR	NOT SPECIFIED	to-4
CA-AIR3-PM10-020	07B04239	AIR	NOT SPECIFIED	air special test
CA-AIR3-TO13-020	07B04247	AIR	NOT SPECIFIED	to-13
CA-AIR3-TO15-020	07B04243	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR3-TO15-020	07B04243	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR3-TO4-0209	07B04251	AIR	NOT SPECIFIED	to-4
CA-AIR4-PM10-020	07B04240	AIR	NOT SPECIFIED	air special test
CA-AIR4-TO13-020	07B04248	AIR	NOT SPECIFIED	to-13
CA-AIR4-TO15-020	07B04244	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR4-TO15-020	07B04244	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR4-TO4-0209	07B04252	AIR	NOT SPECIFIED	to-4



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 2/14/2007

D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118
ATTN: KEITH CHADWICK

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-03814
JOB NUMBER: 2006-516

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMIT-03814

REVISED REPORT - PM 10 DATA NOW ENTERED.

IN METHOD TO-15, ETHANOL WAS DETECTED IN THE METHOD BLANK AT 2.6 PPBV = 4.9 UG/M3.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Edward Denson 2/14/07

SIGNATURE

DATE

Tod Kopyscinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

KEITH CHADWICK
D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118

2/14/2007
Page 1 of 39

Purchase Order No.:

Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-PM10-020907

Sample ID : 07B04237

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/14/07	MM			

SEE ATTACHED SHEET

Field Sample # : CA-AIR2-PM10-020907

Sample ID : 07B04238

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/14/07	MM			

SEE ATTACHED SHEET

Field Sample # : CA-AIR3-PM10-020907

Sample ID : 07B04239

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/14/07	MM			

SEE ATTACHED SHEET

Field Sample # : CA-AIR4-PM10-020907

Sample ID : 07B04240

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/14/07	MM			

SEE ATTACHED SHEET

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* = See end of report for comments and notes applying to this sample

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR1-TO13-020907

Sample ID : *07B04245

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	ND	02/13/07	BGL	0.10		
Acenaphthene	ug/m3	ND	02/13/07	BGL	0.0003		
Acenaphthylene	ug	ND	02/13/07	BGL	0.10		
Acenaphthylene	ug/m3	ND	02/13/07	BGL	0.0003		
Anthracene	ug	ND	02/13/07	BGL	0.10		
Anthracene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(a)anthracene	ug	ND	02/13/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(a)pyrene	ug	ND	02/13/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	ND	02/13/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(e)pyrene	ug	ND	02/13/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	ND	02/13/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	ND	02/13/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	ND	02/13/07	BGL	0.0003		
Chrysene	ug	ND	02/13/07	BGL	0.10		
Chrysene	ug/m3	ND	02/13/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/13/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/13/07	BGL	0.0003		
Fluoranthene	ug	ND	02/13/07	BGL	0.10		
Fluoranthene	ug/m3	ND	02/13/07	BGL	0.0003		
Fluorene	ug	ND	02/13/07	BGL	0.10		
Fluorene	ug/m3	ND	02/13/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	ND	02/13/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	ND	02/13/07	BGL	0.0003		
1-Methylnaphthalene	ug	ND	02/13/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	ND	02/13/07	BGL	0.0003		

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO13-020907

Sample ID : *07B04245

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	0.13	02/13/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0003	02/13/07	BGL	0.0003		
Naphthalene	ug	0.66	02/13/07	BGL	0.10		
Naphthalene	ug/m3	0.0017	02/13/07	BGL	0.0003		
Perylene	ug	ND	02/13/07	BGL	0.10		
Perylene	ug/m3	ND	02/13/07	BGL	0.0003		
Phenanthrene	ug	ND	02/13/07	BGL	0.10		
Phenanthrene	ug/m3	ND	02/13/07	BGL	0.0003		
Pyrene	ug	ND	02/13/07	BGL	0.10		
Pyrene	ug/m3	ND	02/13/07	BGL	0.0003		
Air Volume	liters	385700	02/13/07	BGL			

Analytical Method:

EPA TO-13

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR2-TO13-020907

Sample ID : *07B04246

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	1.68	02/13/07	BGL	0.10		
Acenaphthene	ug/m3	0.0043	02/13/07	BGL	0.0003		
Acenaphthylene	ug	0.30	02/13/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0008	02/13/07	BGL	0.0003		
Anthracene	ug	0.95	02/13/07	BGL	0.10		
Anthracene	ug/m3	0.0024	02/13/07	BGL	0.0003		
Benzo(a)anthracene	ug	1.12	02/13/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	0.0029	02/13/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.92	02/13/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0024	02/13/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	1.41	02/13/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0036	02/13/07	BGL	0.0003		
Benzo(e)pyrene	ug	0.60	02/13/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	0.0015	02/13/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	0.48	02/13/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	0.0012	02/13/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	0.44	02/13/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	0.0011	02/13/07	BGL	0.0003		
Chrysene	ug	1.21	02/13/07	BGL	0.10		
Chrysene	ug/m3	0.0031	02/13/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	0.13	02/13/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	0.0003	02/13/07	BGL	0.0003		
Fluoranthene	ug	4.14	02/13/07	BGL	0.10		
Fluoranthene	ug/m3	0.0106	02/13/07	BGL	0.0003		
Fluorene	ug	1.97	02/13/07	BGL	0.10		
Fluorene	ug/m3	0.0050	02/13/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	0.58	02/13/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	0.0015	02/13/07	BGL	0.0003		
1-Methylnaphthalene	ug	14.4	02/13/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0369	02/13/07	BGL	0.0003		

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Project Location: FBR
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LIMS-BAT #: LIMT-03814
Job Number: 2006-516

Field Sample # : CA-AIR2-TO13-020907

Sample ID : *07B04246

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	24.2	02/13/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0619	02/13/07	BGL	0.0003		
Naphthalene	ug	40.2	02/13/07	BGL	0.10		
Naphthalene	ug/m3	0.103	02/13/07	BGL	0.0003		
Perylene	ug	0.23	02/13/07	BGL	0.10		
Perylene	ug/m3	0.0006	02/13/07	BGL	0.0003		
Phenanthrene	ug	6.60	02/13/07	BGL	0.10		
Phenanthrene	ug/m3	0.0169	02/13/07	BGL	0.0003		
Pyrene	ug	2.20	02/13/07	BGL	0.10		
Pyrene	ug/m3	0.0056	02/13/07	BGL	0.0003		
Air Volume	liters	390700	02/13/07	BGL			

Analytical Method:
EPA TO-13

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR3-TO13-020907

Sample ID : *07B04247

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	0.27	02/13/07	BGL	0.10		
Acenaphthene	ug/m3	0.0007	02/13/07	BGL	0.0003		
Acenaphthylene	ug	0.15	02/13/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0004	02/13/07	BGL	0.0003		
Anthracene	ug	0.10	02/13/07	BGL	0.10		
Anthracene	ug/m3	0.0002	02/13/07	BGL	0.0003		
Benzo(a)anthracene	ug	ND	02/13/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.23	02/13/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0006	02/13/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	0.13	02/13/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0003	02/13/07	BGL	0.0003		
Benzo(e)pyrene	ug	ND	02/13/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	ND	02/13/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	ND	02/13/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	ND	02/13/07	BGL	0.0003		
Chrysene	ug	0.11	02/13/07	BGL	0.10		
Chrysene	ug/m3	0.0003	02/13/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/13/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/13/07	BGL	0.0003		
Fluoranthene	ug	0.47	02/13/07	BGL	0.10		
Fluoranthene	ug/m3	0.0011	02/13/07	BGL	0.0003		
Fluorene	ug	0.49	02/13/07	BGL	0.10		
Fluorene	ug/m3	0.0012	02/13/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	ND	02/13/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	ND	02/13/07	BGL	0.0003		
1-Methylnaphthalene	ug	2.65	02/13/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0065	02/13/07	BGL	0.0003		

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Purchase Order No.:

Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample #: CA-AIR3-TO13-020907

Sample ID: *07B04247

Sampled: 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	4.85	02/13/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0119	02/13/07	BGL	0.0003		
Naphthalene	ug	14.2	02/13/07	BGL	0.10		
Naphthalene	ug/m3	0.0347	02/13/07	BGL	0.0003		
Perylene	ug	ND	02/13/07	BGL	0.10		
Perylene	ug/m3	ND	02/13/07	BGL	0.0003		
Phenanthrene	ug	1.20	02/13/07	BGL	0.10		
Phenanthrene	ug/m3	0.0029	02/13/07	BGL	0.0003		
Pyrene	ug	0.22	02/13/07	BGL	0.10		
Pyrene	ug/m3	0.0005	02/13/07	BGL	0.0003		
Air Volume	liters	409100	02/13/07	BGL			

Analytical Method:

EPA TO-13

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR4-TO13-020907

Sample ID : *07B04248

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	0.46	02/13/07	BGL	0.10		
Acenaphthene	ug/m3	0.0013	02/13/07	BGL	0.0003		
Acenaphthylene	ug	0.15	02/13/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0004	02/13/07	BGL	0.0003		
Anthracene	ug	0.16	02/13/07	BGL	0.10		
Anthracene	ug/m3	0.0004	02/13/07	BGL	0.0003		
Benzo(a)anthracene	ug	0.14	02/13/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	0.0004	02/13/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.30	02/13/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0008	02/13/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	0.23	02/13/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0006	02/13/07	BGL	0.0003		
Benzo(e)pyrene	ug	0.11	02/13/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	0.0003	02/13/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	ND	02/13/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	ND	02/13/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	ND	02/13/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	ND	02/13/07	BGL	0.0003		
Chrysene	ug	0.19	02/13/07	BGL	0.10		
Chrysene	ug/m3	0.0005	02/13/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/13/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/13/07	BGL	0.0003		
Fluoranthene	ug	0.76	02/13/07	BGL	0.10		
Fluoranthene	ug/m3	0.0021	02/13/07	BGL	0.0003		
Fluorene	ug	0.62	02/13/07	BGL	0.10		
Fluorene	ug/m3	0.0017	02/13/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	0.10	02/13/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	0.0003	02/13/07	BGL	0.0003		
1-Methylnaphthalene	ug	2.75	02/13/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0075	02/13/07	BGL	0.0003		

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMT-03814
Job Number: 2006-516

Field Sample # : CA-AIR4-TO13-020907

Sample ID : *07B04248

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	5.03	02/13/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0138	02/13/07	BGL	0.0003		
Naphthalene	ug	14.8	02/13/07	BGL	0.10		
Naphthalene	ug/m3	0.0405	02/13/07	BGL	0.0003		
Perylene	ug	ND	02/13/07	BGL	0.10		
Perylene	ug/m3	ND	02/13/07	BGL	0.0003		
Phenanthrene	ug	1.37	02/13/07	BGL	0.10		
Phenanthrene	ug/m3	0.0037	02/13/07	BGL	0.0003		
Pyrene	ug	0.39	02/13/07	BGL	0.10		
Pyrene	ug/m3	0.0011	02/13/07	BGL	0.0003		
Air Volume	liters	365600	02/13/07	BGL			

Analytical Method:
EPA TO-13

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020907

Sample ID : 07B04241

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	2.0	02/13/07	WSD	0.50		
Benzene	PPBv	ND	02/13/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/13/07	WSD	0.50		
Bromomethane	PPBv	ND	02/13/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/13/07	WSD	0.50		
2-Butanone (MEK)	PPBv	ND	02/13/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/13/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/13/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroform	PPBv	ND	02/13/07	WSD	0.50		
Chloromethane	PPBv	ND	02/13/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/13/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/13/07	WSD	0.50		
Ethanol	PPBv	1.8	02/13/07	WSD	0.50		

RL = Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample #: CA-AIR1-TO15-020907

Sample ID: 07B04241

Sampled: 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/13/07	WSD	0.50		
n-Heptane	PPBv	ND	02/13/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/13/07	WSD	0.50		
Hexane	PPBv	ND	02/13/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/13/07	WSD	0.50		
Isopropanol	PPBv	ND	02/13/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/13/07	WSD	0.50		
Methylene Chloride	PPBv	ND	02/13/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/13/07	WSD	0.50		
Propene	PPBv	ND	02/13/07	WSD	0.50		
Styrene	PPBv	ND	02/13/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/13/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/13/07	WSD	0.50		
Toluene	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/13/07	WSD	1.0		
o-Xylene	PPBv	ND	02/13/07	WSD	0.50		

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KEITH CHADWICK

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020907

Sample ID : 07B04242

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	1.8	02/13/07	WSD	0.50		
Benzene	PPBv	ND	02/13/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/13/07	WSD	0.50		
Bromomethane	PPBv	ND	02/13/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/13/07	WSD	0.50		
2-Butanone (MEK)	PPBv	ND	02/13/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/13/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/13/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroform	PPBv	ND	02/13/07	WSD	0.50		
Chloromethane	PPBv	ND	02/13/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/13/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/13/07	WSD	0.50		
Ethanol	PPBv	ND	02/13/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample #: CA-AIR2-TO15-020907

Sample ID: 07B04242

Sampled: 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/13/07	WSD	0.50		
n-Heptane	PPBv	ND	02/13/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/13/07	WSD	0.50		
Hexane	PPBv	ND	02/13/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/13/07	WSD	0.50		
Isopropanol	PPBv	ND	02/13/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/13/07	WSD	0.50		
Methylene Chloride	PPBv	ND	02/13/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/13/07	WSD	0.50		
Propene	PPBv	ND	02/13/07	WSD	0.50		
Styrene	PPBv	ND	02/13/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/13/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/13/07	WSD	0.50		
Toluene	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/13/07	WSD	1.0		
o-Xylene	PPBv	ND	02/13/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020907

Sample ID : 07B04243

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	1.5	02/13/07	WSD	0.50		
Benzene	PPBv	ND	02/13/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/13/07	WSD	0.50		
Bromomethane	PPBv	ND	02/13/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/13/07	WSD	0.50		
2-Butanone (MEK)	PPBv	ND	02/13/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/13/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/13/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroform	PPBv	ND	02/13/07	WSD	0.50		
Chloromethane	PPBv	ND	02/13/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/13/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/13/07	WSD	0.50		
Ethanol	PPBv	ND	02/13/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample #: CA-AIR3-TO15-020907

Sample ID: 07B04243

Sampled: 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/13/07	WSD	0.50		
n-Heptane	PPBv	ND	02/13/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/13/07	WSD	0.50		
Hexane	PPBv	ND	02/13/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/13/07	WSD	0.50		
Isopropanol	PPBv	ND	02/13/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/13/07	WSD	0.50		
Methylene Chloride	PPBv	ND	02/13/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/13/07	WSD	0.50		
Propene	PPBv	ND	02/13/07	WSD	0.50		
Styrene	PPBv	ND	02/13/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/13/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/13/07	WSD	0.50		
Toluene	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/13/07	WSD	1.0		
o-Xylene	PPBv	ND	02/13/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020907

Sample ID : 07B04244

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	2.1	02/13/07	WSD	0.50		
Benzene	PPBv	ND	02/13/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/13/07	WSD	0.50		
Bromomethane	PPBv	ND	02/13/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/13/07	WSD	0.50		
2-Butanone (MEK)	PPBv	ND	02/13/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/13/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/13/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroethane	PPBv	ND	02/13/07	WSD	0.50		
Chloroform	PPBv	ND	02/13/07	WSD	0.50		
Chloromethane	PPBv	ND	02/13/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/13/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/13/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/13/07	WSD	0.50		
Ethanol	PPBv	ND	02/13/07	WSD	0.50		

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample #: CA-AIR4-TO15-020907

Sample ID: 07B04244

Sampled: 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/13/07	WSD	0.50		
n-Heptane	PPBv	ND	02/13/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/13/07	WSD	0.50		
Hexane	PPBv	ND	02/13/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/13/07	WSD	0.50		
Isopropanol	PPBv	ND	02/13/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/13/07	WSD	0.50		
Methylene Chloride	PPBv	1.2	02/13/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/13/07	WSD	0.50		
Propene	PPBv	ND	02/13/07	WSD	0.50		
Styrene	PPBv	ND	02/13/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/13/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/13/07	WSD	0.50		
Toluene	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/13/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/13/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/13/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/13/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/13/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Acetate	PPBv	ND	02/13/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/13/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/13/07	WSD	1.0		
o-Xylene	PPBv	ND	02/13/07	WSD	0.50		

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

KEITH CHADWICK

D.A. COLLINS COMPANIES

101 ROUTE 67, PO BOX 191

MECHANICSVILLE, NY 12118

Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

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NM = Not Measured

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KEITH CHADWICK
D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118

Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020907

Sample ID : 07B04241

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	4.8	02/13/07	WSD	1.2		
Benzene	ug/m3	ND	02/13/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/13/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/13/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/13/07	WSD	2.0		
1,3-Butadiene	ug/m3	ND	02/13/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	ND	02/13/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/13/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/13/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/13/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/13/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/13/07	WSD	1.4		
Chloroform	ug/m3	ND	02/13/07	WSD	2.5		
Chloromethane	ug/m3	ND	02/13/07	WSD	1.1		
Cyclohexane	ug/m3	ND	02/13/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,3-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,4-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
Dichlorodifluoromethane	ug/m3	ND	02/13/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,2-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,1-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/13/07	WSD	2.4		
cis-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/13/07	WSD	3.5		
Ethanol	ug/m3	3.4	02/13/07	WSD	0.90		

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KEITH CHADWICK
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Purchase Order No.:

2/14/2007

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020907

Sample ID : 07B04241

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/13/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/13/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/13/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/13/07	WSD	5.4		
Hexane	ug/m3	ND	02/13/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/13/07	WSD	2.0		
Isopropanol	ug/m3	ND	02/13/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/13/07	WSD	1.8		
Methylene Chloride	ug/m3	ND	02/13/07	WSD	1.8		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/13/07	WSD	2.0		
Propene	ug/m3	ND	02/13/07	WSD	0.90		
Styrene	ug/m3	ND	02/13/07	WSD	2.2		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/13/07	WSD	3.5		
Tetrachloroethylene	ug/m3	ND	02/13/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/13/07	WSD	1.5		
Toluene	ug/m3	ND	02/13/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/13/07	WSD	3.8		
1,1,1-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
1,1,2-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
Trichloroethylene	ug/m3	ND	02/13/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/13/07	WSD	2.9		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2,4-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
Vinyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/13/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/13/07	WSD	4.4		
o-Xylene	ug/m3	ND	02/13/07	WSD	2.2		

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KEITH CHADWICK

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101 ROUTE 67, PO BOX 191

MECHANICSVILLE, NY 12118

Purchase Order No.:

Project Location: FBR

Date Received: 2/12/2007

Field Sample # : CA-AIR1-TO15-020907

2/14/2007

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LIMS-BAT #: LIMT-03814

Job Number: 2006-516

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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KEITH CHADWICK
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101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118

Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020907

Sample ID : 07B04242

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	4.3	02/13/07	WSD	1.2		
Benzene	ug/m3	ND	02/13/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/13/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/13/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/13/07	WSD	2.0		
1,3-Butadiene	ug/m3	ND	02/13/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	ND	02/13/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/13/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/13/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/13/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/13/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/13/07	WSD	1.4		
Chloroform	ug/m3	ND	02/13/07	WSD	2.5		
Chloromethane	ug/m3	ND	02/13/07	WSD	1.1		
Cyclohexane	ug/m3	ND	02/13/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,3-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,4-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
Dichlorodifluoromethane	ug/m3	ND	02/13/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,2-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,1-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/13/07	WSD	2.4		
cis-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/13/07	WSD	3.5		
Ethanol	ug/m3	ND	02/13/07	WSD	0.90		

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KEITH CHADWICK
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Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample #: CA-AIR2-TO15-020907

Sample ID: 07B04242

Sampled: 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/13/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/13/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/13/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/13/07	WSD	5.4		
Hexane	ug/m3	ND	02/13/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/13/07	WSD	2.0		
Isopropanol	ug/m3	ND	02/13/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/13/07	WSD	1.8		
Methylene Chloride	ug/m3	ND	02/13/07	WSD	1.8		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/13/07	WSD	2.0		
Propene	ug/m3	ND	02/13/07	WSD	0.90		
Styrene	ug/m3	ND	02/13/07	WSD	2.2		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/13/07	WSD	3.5		
Tetrachloroethylene	ug/m3	ND	02/13/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/13/07	WSD	1.5		
Toluene	ug/m3	ND	02/13/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/13/07	WSD	3.8		
1,1,1-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
1,1,2-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
Trichloroethylene	ug/m3	ND	02/13/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/13/07	WSD	2.9		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2,4-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
Vinyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/13/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/13/07	WSD	4.4		
o-Xylene	ug/m3	ND	02/13/07	WSD	2.2		

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KEITH CHADWICK

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101 ROUTE 67, PO BOX 191

MECHANICSVILLE, NY 12118

Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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KEITH CHADWICK
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Purchase Order No.:

2/14/2007

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020907

Sample ID : 07B04243

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	3.5	02/13/07	WSD	1.2		
Benzene	ug/m3	ND	02/13/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/13/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/13/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/13/07	WSD	2.0		
1,3-Butadiene	ug/m3	ND	02/13/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	ND	02/13/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/13/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/13/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/13/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/13/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/13/07	WSD	1.4		
Chloroform	ug/m3	ND	02/13/07	WSD	2.5		
Chloromethane	ug/m3	ND	02/13/07	WSD	1.1		
Cyclohexane	ug/m3	ND	02/13/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,3-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,4-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
Dichlorodifluoromethane	ug/m3	ND	02/13/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,2-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,1-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/13/07	WSD	2.4		
cis-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/13/07	WSD	3.5		
Ethanol	ug/m3	ND	02/13/07	WSD	0.90		

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Purchase Order No.:

Project Location: FBR
Date Received: 2/12/2007

Field Sample # : CA-AIR3-TO15-020907

Sample ID : 07B04243

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

2/14/2007

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LIMS-BAT #: LIMIT-03814

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/13/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/13/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/13/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/13/07	WSD	5.4		
Hexane	ug/m3	ND	02/13/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/13/07	WSD	2.0		
Isopropanol	ug/m3	ND	02/13/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/13/07	WSD	1.8		
Methylene Chloride	ug/m3	ND	02/13/07	WSD	1.8		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/13/07	WSD	2.0		
Propene	ug/m3	ND	02/13/07	WSD	0.90		
Styrene	ug/m3	ND	02/13/07	WSD	2.2		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/13/07	WSD	3.5		
Tetrachloroethylene	ug/m3	ND	02/13/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/13/07	WSD	1.5		
Toluene	ug/m3	ND	02/13/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/13/07	WSD	3.8		
1,1,1-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
1,1,2-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
Trichloroethylene	ug/m3	ND	02/13/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/13/07	WSD	2.9		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2,4-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
Vinyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/13/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/13/07	WSD	4.4		
o-Xylene	ug/m3	ND	02/13/07	WSD	2.2		

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* = See end of report for comments and notes applying to this sample

KEITH CHADWICK

D.A. COLLINS COMPANIES

101 ROUTE 67, PO BOX 191

MECHANICSVILLE, NY 12118

Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMIT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020907

Sample ID : 07B04244

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	5.0	02/13/07	WSD	1.2		
Benzene	ug/m3	ND	02/13/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/13/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/13/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/13/07	WSD	2.0		
1,3-Butadiene	ug/m3	ND	02/13/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	ND	02/13/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/13/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/13/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/13/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/13/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/13/07	WSD	1.4		
Chloroform	ug/m3	ND	02/13/07	WSD	2.5		
Chloromethane	ug/m3	ND	02/13/07	WSD	1.1		
Cyclohexane	ug/m3	ND	02/13/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,3-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
1,4-Dichlorobenzene	ug/m3	ND	02/13/07	WSD	3.1		
Dichlorodifluoromethane	ug/m3	ND	02/13/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,2-Dichloroethane	ug/m3	ND	02/13/07	WSD	2.1		
1,1-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/13/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/13/07	WSD	2.4		
cis-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/13/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/13/07	WSD	3.5		
Ethanol	ug/m3	ND	02/13/07	WSD	0.90		

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Purchase Order No.:

2/14/2007

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Project Location: FBR
Date Received: 2/12/2007

LIMS-BAT #: LIMIT-03814
Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020907

Sample ID : 07B04244

Sampled : 2/10/2007
NOT SPECIFIED

Sample Matrix: AIR

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/13/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/13/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/13/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/13/07	WSD	5.4		
Hexane	ug/m3	ND	02/13/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/13/07	WSD	2.0		
Isopropanol	ug/m3	ND	02/13/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/13/07	WSD	1.8		
Methylene Chloride	ug/m3	4.1	02/13/07	WSD	1.8		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/13/07	WSD	2.0		
Propene	ug/m3	ND	02/13/07	WSD	0.90		
Styrene	ug/m3	ND	02/13/07	WSD	2.2		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/13/07	WSD	3.5		
Tetrachloroethylene	ug/m3	ND	02/13/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/13/07	WSD	1.5		
Toluene	ug/m3	ND	02/13/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/13/07	WSD	3.8		
1,1,1-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
1,1,2-Trichloroethane	ug/m3	ND	02/13/07	WSD	2.8		
Trichloroethylene	ug/m3	ND	02/13/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/13/07	WSD	2.9		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/13/07	WSD	3.9		
1,2,4-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/13/07	WSD	2.5		
Vinyl Acetate	ug/m3	ND	02/13/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/13/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/13/07	WSD	4.4		
o-Xylene	ug/m3	ND	02/13/07	WSD	2.2		

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101 ROUTE 67, PO BOX 191

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Purchase Order No.:

2/14/2007

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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020907

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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MECHANICSVILLE, NY 12118

Purchase Order No.:

Project Location: FBR

Date Received: 2/12/2007

Field Sample # : CA-AIR1-TO4-020907

Sample ID : 07B04249

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

2/14/2007

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LIMS-BAT #: LIMT-03814

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/13/07	JB	1.00		
PCB 1016	ug/m3	ND	02/13/07	JB	0.0039		
PCB 1221	ug	ND	02/13/07	JB	1.00		
PCB 1221	ug/m3	ND	02/13/07	JB	0.0039		
PCB 1232	ug	ND	02/13/07	JB	1.00		
PCB 1232	ug/m3	ND	02/13/07	JB	0.0039		
PCB 1242	ug	2.65	02/13/07	JB	1.00		
PCB 1242	ug/m3	0.0101	02/13/07	JB	0.0039		
PCB 1248	ug	ND	02/13/07	JB	1.00		
PCB 1248	ug/m3	ND	02/13/07	JB	0.0039		
PCB 1254	ug	ND	02/13/07	JB	1.00		
PCB 1254	ug/m3	ND	02/13/07	JB	0.0039		
PCB 1260	ug	ND	02/13/07	JB	1.00		
PCB 1260	ug/m3	ND	02/13/07	JB	0.0039		
Air Volume	liters	263000	02/13/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

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Purchase Order No.:

Project Location: FBR

Date Received: 2/12/2007

Field Sample # : CA-AIR2-TO4-020907

Sample ID : 07B04250

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

2/14/2007

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LIMS-BAT #: LIMT-03814

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/13/07	JB	1.00		
PCB 1016	ug/m3	ND	02/13/07	JB	0.0031		
PCB 1221	ug	ND	02/13/07	JB	1.00		
PCB 1221	ug/m3	ND	02/13/07	JB	0.0031		
PCB 1232	ug	ND	02/13/07	JB	1.00		
PCB 1232	ug/m3	ND	02/13/07	JB	0.0031		
PCB 1242	ug	7.00	02/13/07	JB	1.00		
PCB 1242	ug/m3	0.0215	02/13/07	JB	0.0031		
PCB 1248	ug	ND	02/13/07	JB	1.00		
PCB 1248	ug/m3	ND	02/13/07	JB	0.0031		
PCB 1254	ug	ND	02/13/07	JB	1.00		
PCB 1254	ug/m3	ND	02/13/07	JB	0.0031		
PCB 1260	ug	ND	02/13/07	JB	1.00		
PCB 1260	ug/m3	ND	02/13/07	JB	0.0031		
Air Volume	liters	325400	02/13/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

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Purchase Order No.:

Project Location: FBR

Date Received: 2/12/2007

Field Sample # : CA-AIR3-TO4-020907

Sample ID : 07B04251

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

2/14/2007

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LIMS-BAT #: LIMT-03814

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/13/07	JB	1.00		
PCB 1016	ug/m3	ND	02/13/07	JB	0.0026		
PCB 1221	ug	ND	02/13/07	JB	1.00		
PCB 1221	ug/m3	ND	02/13/07	JB	0.0026		
PCB 1232	ug	ND	02/13/07	JB	1.00		
PCB 1232	ug/m3	ND	02/13/07	JB	0.0026		
PCB 1242	ug	ND	02/13/07	JB	1.00		
PCB 1242	ug/m3	ND	02/13/07	JB	0.0026		
PCB 1248	ug	ND	02/13/07	JB	1.00		
PCB 1248	ug/m3	ND	02/13/07	JB	0.0026		
PCB 1254	ug	ND	02/13/07	JB	1.00		
PCB 1254	ug/m3	ND	02/13/07	JB	0.0026		
PCB 1260	ug	ND	02/13/07	JB	1.00		
PCB 1260	ug/m3	ND	02/13/07	JB	0.0026		
Air Volume	liters	390000	02/13/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

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Purchase Order No.:

Project Location: FBR

Date Received: 2/12/2007

Field Sample # : CA-AIR4-TO4-020907

Sample ID : 07B04252

Sampled : 2/10/2007

NOT SPECIFIED

Sample Matrix: AIR

2/14/2007

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LIMS-BAT #: LIMT-03814

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit		P/ F
						Lo	Hi	
PCB 1016	ug	ND	02/13/07	JB	1.00			
PCB 1016	ug/m3	ND	02/13/07	JB	0.0025			
PCB 1221	ug	ND	02/13/07	JB	1.00			
PCB 1221	ug/m3	ND	02/13/07	JB	0.0025			
PCB 1232	ug	ND	02/13/07	JB	1.00			
PCB 1232	ug/m3	ND	02/13/07	JB	0.0025			
PCB 1242	ug	ND	02/13/07	JB	1.00			
PCB 1242	ug/m3	ND	02/13/07	JB	0.0025			
PCB 1248	ug	ND	02/13/07	JB	1.00			
PCB 1248	ug/m3	ND	02/13/07	JB	0.0025			
PCB 1254	ug	ND	02/13/07	JB	1.00			
PCB 1254	ug/m3	ND	02/13/07	JB	0.0025			
PCB 1260	ug	ND	02/13/07	JB	1.00			
PCB 1260	ug/m3	ND	02/13/07	JB	0.0025			
Air Volume	liters	402500	02/13/07	JB				

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

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Purchase Order No.:

Project Location: FBR
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LIMS-BAT #: LIMT-03814
Job Number: 2006-516

The following notes were attached to the reported analysis :

Sample ID: * 07B04245
Analysis: Dibenzo(a,h)anthracene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

Sample ID: * 07B04245
Analysis: Indeno(1,2,3-cd)pyrene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

Sample ID: * 07B04246
Analysis: Dibenzo(a,h)anthracene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

Sample ID: * 07B04246
Analysis: Indeno(1,2,3-cd)pyrene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

Sample ID: * 07B04246
Analysis: Phenanthrene

REPORTED RESULT IS ESTIMATED. INTERNAL STANDARD AREA DID NOT MEET METHOD
SPECIFICATIONS.

Sample ID: * 07B04247
Analysis: Dibenzo(a,h)anthracene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

Sample ID: * 07B04247
Analysis: Indeno(1,2,3-cd)pyrene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

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SPEC LIMIT = a client specified recommended or
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Project Location: FBR

LIMS-BAT #: LIMT-03814

Date Received: 2/12/2007

Job Number: 2006-516

Sample ID: * 07B04248

Analysis: Dibenzo(a,h)anthracene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

Sample ID: * 07B04248

Analysis: Indeno(1,2,3-cd)pyrene

REPORTED RESULT IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION
DID NOT MEET REQUIRED CRITERIA.

** END OF REPORT **

RL = Reporting Limit

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QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/14/2007

Lims Bat # : LIMIT-03814

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QC Batch Number: BATCH-11965

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B04241	4-Bromofluorobenzene	Surrogate Recovery	85.62	%	70-130
07B04242	4-Bromofluorobenzene	Surrogate Recovery	78.75	%	70-130
07B04243	4-Bromofluorobenzene	Surrogate Recovery	77.00	%	70-130
07B04244	Acetone	Sample Amount	5.01	ug/m3	
		Duplicate Value	5.01	ug/m3	
		Duplicate RPD	0.00	%	
	Benzene	Sample Amount	<1.6	ug/m3	
		Duplicate Value	<1.6	ug/m3	
	Methylene Chloride	Sample Amount	4.09	ug/m3	
		Duplicate Value	4.06	ug/m3	
		Duplicate RPD	0.85	%	
	4-Bromofluorobenzene	Surrogate Recovery	81.75	%	70-130
BLANK-98394	Acetone	Blank	<1.2	ug/m3	
	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.5	ug/m3	
	1,2-Dichloroethane	Blank	<2.1	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.1	ug/m3	
	Ethyl Acetate	Blank	<1.8	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Hexane	Blank	<1.8	ug/m3	
	Isopropanol	Blank	<1.2	ug/m3	
	2-Butanone (MEK)	Blank	<1.5	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<2.0	ug/m3	
	Styrene	Blank	<2.2	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.8	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.9	ug/m3	
	Trichlorofluoromethane	Blank	<2.9	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<4.4	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.1	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.1	ug/m3	
	1,1-Dichloroethane	Blank	<2.1	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Ethanol	Blank	4.89	ug/m3	
	4-Ethyl Toluene	Blank	<2.5	ug/m3	



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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Lims Bat # : LIMIT-03814

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QC Batch Number: BATCH-11965

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-98394					
	Methyl tert-Butyl Ether (MTBE)	Blank	<1.8	ug/m3	
	t-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.8	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.1	ug/m3	
	Bromomethane	Blank	<2.0	ug/m3	
	Chloroethane	Blank	<1.4	ug/m3	
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	Chlorodibromomethane	Blank	<4.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.8	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.5	ug/m3	
	Hexachlorobutadiene	Blank	<5.4	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.8	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	Cyclohexane	Blank	<1.7	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.4	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	Benzyl Chloride	Blank	<2.6	ug/m3	
	Carbon Disulfide	Blank	<1.6	ug/m3	
	Vinyl Acetate	Blank	<1.8	ug/m3	
	2-Hexanone	Blank	<2.0	ug/m3	
	Bromodichloromethane	Blank	<3.4	ug/m3	
	1,2-Dibromoethane	Blank	<3.9	ug/m3	
	n-Heptane	Blank	<2.0	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	
	Tetrahydrofuran	Blank	<1.5	ug/m3	
	Propene	Blank	<0.90	ug/m3	
	1,3-Butadiene	Blank	<1.1	ug/m3	



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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QC Batch Number: GC/ECD-9437

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B04249	Decachlorobiphenyl	Surrogate Recovery	90.0	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	100.0	%	
07B04250	Decachlorobiphenyl	Surrogate Recovery	62.5	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	67.5	%	
07B04251	Decachlorobiphenyl	Surrogate Recovery	102.5	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	97.5	%	
07B04252	Decachlorobiphenyl	Surrogate Recovery	100.0	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	100.0	%	
BLANK-98423	PCB 1232	Blank	<0.20	ug	
	PCB 1242	Blank	<0.20	ug	
	PCB 1254	Blank	<0.20	ug	
	PCB 1260	Blank	<0.20	ug	
	PCB 1248	Blank	<0.20	ug	
	PCB 1221	Blank	<0.20	ug	
	PCB 1016	Blank	<0.20	ug	
LFBLANK-59603	PCB 1260	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.96	ug	
		Lab Fort Blk. % Rec.	96.00	%	
		Dup Lab Fort Bl Amt.	1.00	ug	
		Dup Lab Fort Bl. Fnd	0.89	ug	
		Dup Lab Fort Bl %Rec	89.00	%	
		Lab Fort Blank Range	6.99	units	
		Lab Fort Bl. Av. Rec	92.50	%	
		LFB Duplicate RPD	7.56	%	
	PCB 1016	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.94	ug	
		Lab Fort Blk. % Rec.	94.00	%	
		Dup Lab Fort Bl Amt.	1.00	ug	
		Dup Lab Fort Bl. Fnd	0.99	ug	
		Dup Lab Fort Bl %Rec	99.00	%	
		Lab Fort Blank Range	4.99	units	
		Lab Fort Bl. Av. Rec	96.50	%	
		LFB Duplicate RPD	5.18	%	

QC SUMMARY REPORT

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QC Batch Number: GCMS/SEMI-9130

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B04245	Nitrobenzene-d5	Surrogate Recovery	30.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	75.0	%	
	Terphenyl-d14	Surrogate Recovery	85.0	%	
	Fluoranthene-d10	Surrogate Recovery	113.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	119.0	%	
07B04246	Nitrobenzene-d5	Surrogate Recovery	135.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	26.0	%	
	Terphenyl-d14	Surrogate Recovery	27.0	%	
	Fluoranthene-d10	Surrogate Recovery	128.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	117.0	%	
07B04247	Nitrobenzene-d5	Surrogate Recovery	95.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	65.0	%	
	Terphenyl-d14	Surrogate Recovery	70.0	%	
	Fluoranthene-d10	Surrogate Recovery	121.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	117.0	%	
07B04248	Nitrobenzene-d5	Surrogate Recovery	85.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	60.0	%	
	Terphenyl-d14	Surrogate Recovery	65.0	%	
	Fluoranthene-d10	Surrogate Recovery	136.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	125.0	%	
BLANK-98421	Naphthalene	Blank	<0.10	ug	
	Acenaphthene	Blank	<0.10	ug	
	Acenaphthylene	Blank	<0.10	ug	
	Anthracene	Blank	<0.10	ug	
	Benzo(a)anthracene	Blank	<0.10	ug	
	Benzo(a)pyrene	Blank	<0.10	ug	
	Benzo(b)fluoranthene	Blank	<0.10	ug	
	Benzo(g,h,i)perylene	Blank	<0.10	ug	
	Chrysene	Blank	<0.10	ug	
	Dibenzo(a,h)anthracene	Blank	<0.10	ug	
	Fluoranthene	Blank	<0.10	ug	
	Fluorene	Blank	<0.10	ug	
	Indeno(1,2,3-cd)pyrene	Blank	<0.10	ug	
	2-Methylnaphthalene	Blank	<0.10	ug	
	Phenanthrene	Blank	<0.10	ug	
	Pyrene	Blank	<0.10	ug	
	Benzo(k)fluoranthene	Blank	<0.10	ug	
	1-Methylnaphthalene	Blank	<0.10	ug	
	Benzo(e)pyrene	Blank	<0.10	ug	



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

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QC Batch Number: GCMS/SEMI-9130

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-98421	Perylene	Blank	<0.10	ug	
LFBLANK-59601	Naphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.92	ug	
		Lab Fort Blk. % Rec.	92.00	%	
	Acenaphthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.00	ug	
		Lab Fort Blk. % Rec.	100.00	%	
	Acenaphthylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.92	ug	
		Lab Fort Blk. % Rec.	92.00	%	
	Anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.12	ug	
		Lab Fort Blk. % Rec.	113.00	%	
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.96	ug	
		Lab Fort Blk. % Rec.	96.00	%	
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.87	ug	
		Lab Fort Blk. % Rec.	87.00	%	
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.05	ug	
		Lab Fort Blk. % Rec.	105.00	%	
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.89	ug	
		Lab Fort Blk. % Rec.	89.00	%	
	Chrysene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
		Lab Fort Blk. % Rec.	110.00	%	
	Dibenzo(a,h)anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.82	ug	
		Lab Fort Blk. % Rec.	82.00	%	
	Fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.25	ug	
		Lab Fort Blk. % Rec.	125.00	%	
	Fluorene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.05	ug	
		Lab Fort Blk. % Rec.	105.00	%	
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.76	ug	
		Lab Fort Blk. % Rec.	76.00	%	
	2-Methylnaphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.91	ug	



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QC Batch Number: GCMS/SEMI-9130

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-59601	2-Methylnaphthalene	Lab Fort Blk. % Rec.	91.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.07	ug	
	Phenanthrene	Lab Fort Blk. % Rec.	107.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
	Pyrene	Lab Fort Blk. % Rec.	110.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.25	ug	
	Benzo(k)fluoranthene	Lab Fort Blk. % Rec.	125.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.99	ug	
	1-Methylnaphthalene	Lab Fort Blk. % Rec.	99.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.34	ug	
	Benzo(e)pyrene	Lab Fort Blk. % Rec.	134.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.29	ug	
	Perylene	Lab Fort Blk. % Rec.	129.00	%	



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NOTES:

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04245

Analysis : Nitrobenzene-d5

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04246

Analysis : 2-Fluorobiphenyl

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04246

Analysis : Fluoranthene-d10

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04246

Analysis : Nitrobenzene-d5

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04246

Analysis : Terphenyl-d14

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04247

Analysis : Fluoranthene-d10

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04248

Analysis : Benzo(a)pyrene-7,8-d12

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : 07B04248

Analysis : Fluoranthene-d10

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9130

Sample ID : LFBANK-59601

Analysis : Benzo(e)pyrene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.



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QC SUMMARY REPORT

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Lims Bat # : LIMIT-03814

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QC Batch No. : GCMS/SEMI-9130
Sample ID : LFBLANK-59601
Analysis : Benzo(k)fluoranthene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9130
Sample ID : LFBLANK-59601
Analysis : Fluoranthene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9130
Sample ID : LFBLANK-59601
Analysis : Perylene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.



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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken through all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



con-test

ANALYTICAL LABORATORY

® 39 Spruce Street
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR EPA METHOD PM-10

LIMIT Number: 03814

Date Analyzed: 02/14/07

Analyst: MM

Lab ID Number: 07B04237

Volume: 1706.25 M³

Client ID Number: CA-AIR1-PM10-020907

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

71.0

0.042

Lab ID Number: 07B04238

Volume: 1732.5 M³

Client ID Number: CA-AIR2-PM10-020907

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

163.6

0.094

Lab ID Number: 07B04239

Volume: 1783.75 M³

Client ID Number: CA-AIR3-PM10-020907

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

35.2

0.020

Lab ID Number: 07B04240

Volume: 1778.75 M³

Client ID Number: CA-AIR4-PM10-020907

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

18.7

0.011

PM-10 = Particulate matter having an aerodynamic diameter less than or equal to 10 micrometers.

MG = Milligrams

MG/M3 = Milligrams per cubic meter

Method: EPA PM-10



(413) 525-2332
FAX (413) 525-6405

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01101

Client Name: DA Collins

Attn: Keith Chadwick

Address: 101 Route 67 PO Box 191
Mechanicville, NY 12118

Site Location: FBR

Sampled By: Keith Chadwick

Call Results: Yes No

Fax OR Email Results: Fax#:

Total # of Containers submitted with this chain:

Telephone: 518-664-9855

Batch #:

Project #: 2006-516

Client P.O. #:

Email Format: ☒ .pdf format ☒ .xls format

Email Address: kchadwick@dacollins.com

Field Sample ID.	Sample Description	Lab #	DATE SAMPLED		Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)
			Start Date/Time	Stop Date/Time			WASTE WATER	GROUND WATER	DKG WATER	Soil	Air		
1.250	CA-Air1-PM10-020907	04237	647 2/9/07	532 2/9/07									
1.250	CA-Air2-PM10-020907	04238	652	558									
1.250	CA-Air3-PM10-020907	04239	717	704									
1.250	CA-Air4-PM10-020907	04240	652	635									
	CA-Air1-T015-020907	04241	647	532									
	CA-Air2-T015-020907	04242	652	558									
	CA-Air3-T015-020907	04243	717	704									
	CA-Air4-T015-020907	04244	652	635									

CONTAINER CODE

P: PLASTIC () Size X = 40 ml vial G = Glass () size A = 1000 ml Amber 0 = Other

Relinquished by: (Signature) Date Time Received by: (Signature)

Relinquished by: (Signature) Date Time Received by: (Signature)

Relinquished by: (Signature) Date Time Received by: (Signature)

Relinquished by: (Signature) Date Time Received by: (Signature)

Relinquished by: (Signature) Date Time Received by: (Signature)

Relinquished by: (Signature) Date Time Received by: (Signature)

Remarks/Comments:	If this section is not filled out, Con-Test will analyze at normal turnaround.	Turnaround Requested	Other	Date Required	Detection Limit Requests:	
					Regulations?	SIMS: Yes No

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01026

Client Name: DA Collins
Attn: Keith Chadwick
Address: 101 Route 67 PO Box 191
Mechanicville, NY 12118

Telephone: 518-664-9855
Batch #: 2006-516

Site Location: FBR
Sampled By: Keith Chadwick

Client P.O. #: 2006-516

Call Results: Yes No
Fax OR Email Results: Fax#:

Email Format: .pdf format .xls format
Email Address: kchadwick@ddacollins.com

Total # of Containers submitted with this chain: _____									
Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED	Start Date/Time	Stop Date/Time	Composite	Grab	WASTE WATER	GROUND WATER
385.67	CA-Air1-T013-020907	04245	647	532	3/4/07				
390.69	CA-Air2-T013-020907	04246	652	558					
409.11	CA-Air3-T013-020907	04247	717	704					
365.64	CA-Air4-T013-020907	04248	652	635					
263.02	CA-Air1-T04-020907	04249	647	532					
325.35	CA-Air2-T04-020907	04250	652	558					
390.00	CA-Air3-T04-020907	04251	717	704					
402.5	CA-Air4-T04-020907	04252	652	635					

CONTAINER CODE

P: PLASTIC () Size V = 40 ml vial G = Glass () size A = 1000 ml Amber 0 = Other

Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)
Relinquished by: (Signature)	Date Time	Received by: (Signature)

Remarks/Comments:	Turnaround Requested	Other	DATE RECEIVED	ANALYSIS REQUIRED
*MATRIX OTHER	24-Hour			
Detection Limit Requests:	48-Hour			
Regulations?	Normal			
SIMS: Yes No				



www.confestlabs.com

39 Spruce Street
East Longmeadow, MA
Phone: 1-413-525-2332
Fax: 1-413-525-6405

SAMPLE RECEIPT CHECKLIST

CLIENT NAME: DACollins
RECEIVED BY: CFC DATE: 2/12/07

1. Was chain of custody relinquished and signed? YES NO
2. Does Chain agree with samples? YES NO

If not, explain:

3. All Samples in good condition? YES NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C? YES NO
5. Are all soil vph & voc samples covered with preservation? YES NO

Degrees:
3.2C

6. Are there any dissolved samples for the lab to filter? YES NO

Who was notified? _____ Date: _____ Time: _____

6. Are there any on hold samples? YES NO

7. Laboratory analysts notified?
Who ext Time 1740 YES NO
Date 2/12/07

8. Location where samples are stored: ext, IC, AirLab

CONTAINERS SENT IN TO CON-TEST	# of containers	CONTAINERS SENT TO CON-TEST	# of containers
1 liter amber		Air Cassettes	
500 ml amber		8 oz clear jar	
250 ml amber (8oz. Amber)		4 oz clear jar	
1 liter plastic		2 oz clear jar	
500 ml plastic		Plastic bag <u>(PM-10)</u>	<u>1</u>
250 ml plastic		Encore	
40 ml vial		Brass Sleeves <u>T0-13, T0-4</u>	<u>8</u>
Colisure bottle		Tubes	
Dissolved oxygen bottle		Summa cans	<u>4</u>
Flashpoint bottle		Other	

Laboratory comments:

Do all the samples have the correct pH levels? YES NO If no, please explain below:



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

REPORT DATE 2/12/2007

D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118
ATTN: KEITH CHADWICK

CONTRACT NUMBER:
PURCHASE ORDER NUMBER:

PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-03798

JOB NUMBER: 2006-516

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: FBR

FIELD SAMPLE #	LAB ID	MATRIX	SAMPLE DESCRIPTION	TEST
CA-AIR1-PM10-020	07B04168	AIR	NOT SPECIFIED	air special test
CA-AIR1-TO13-020	07B04176	AIR	NOT SPECIFIED	to-13
CA-AIR1-TO15-020	07B04172	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR1-TO15-020	07B04172	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR1-TO4-0208	07B04180	AIR	NOT SPECIFIED	to-4
CA-AIR2-PM10-020	07B04169	AIR	NOT SPECIFIED	air special test
CA-AIR2-TO13-020	07B04177	AIR	NOT SPECIFIED	to-13
CA-AIR2-TO15-020	07B04173	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR2-TO15-020	07B04173	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR2-TO4-0208	07B04181	AIR	NOT SPECIFIED	to-4
CA-AIR3-PM10-020	07B04170	AIR	NOT SPECIFIED	air special test
CA-AIR3-TO13-020	07B04178	AIR	NOT SPECIFIED	to-13
CA-AIR3-TO15-020	07B04174	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR3-TO15-020	07B04174	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR3-TO4-0208	07B04182	AIR	NOT SPECIFIED	to-4
CA-AIR4-PM10-020	07B04171	AIR	NOT SPECIFIED	air special test
CA-AIR4-TO13-020	07B04179	AIR	NOT SPECIFIED	to-13
CA-AIR4-TO15-020	07B04175	AIR	NOT SPECIFIED	to-15 ppbv
CA-AIR4-TO15-020	07B04175	AIR	NOT SPECIFIED	to-15 ug/m3
CA-AIR4-TO4-0208	07B04183	AIR	NOT SPECIFIED	to-4



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REPORT DATE 2/12/2007

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PROJECT NUMBER:

ANALYTICAL SUMMARY

LIMS BAT #: LIMIT-03798

JOB NUMBER: 2006-516

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

Comments :

LIMS BATCH NO. : LIMIT-03798

IN METHOD TO-15, ANY REPORTED RESULT FOR 1,2,4-TRICHLOROBENZENE OR HEXACHLOROBUTADIENE IS ESTIMATED. EITHER INITIAL OR CONTINUING CALIBRATION DID NOT MEET METHOD SPECIFIED CRITERIA.

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations :

AIHA 100033	AIHA ELLAP (LEAD) 100033	
MASSACHUSETTS MA0100	NEW HAMPSHIRE NELAP 2516	NEW JERSEY NELAP NJ MA007 (AIR)
CONNECTICUT PH-0567	VERMONT DOH (LEAD) No. LL015036	
NEW YORK ELAP/NELAP 10899	RHODE ISLAND (LIC. No. 112)	

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Sondra L. Slesinski 02/12/07

Tod Kopycinski
Director of Operations

Sondra L. Slesinski
Quality Assurance Officer

SIGNATURE

DATE

Edward Denson
Technical Director

* See end of data tabulation for notes and comments pertaining to this sample



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KEITH CHADWICK

D.A. COLLINS COMPANIES

101 ROUTE 67, PO BOX 191

MECHANICSVILLE, NY 12118

Purchase Order No.:

2/12/2007

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-PM10-020807

Sample ID : 07B04168

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : PLASTIC BAG

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/12/07	MM			

SEE ATTACHED RESULT

Field Sample # : CA-AIR2-PM10-020807

Sample ID : 07B04169

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : PLASTIC BAG

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/12/07	MM			

SEE ATTACHED RESULT

Field Sample # : CA-AIR3-PM10-020807

Sample ID : 07B04170

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : PLASTIC BAG

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/12/07	MM			

SEE ATTACHED RESULT

Field Sample # : CA-AIR4-PM10-020807

Sample ID : 07B04171

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : PLASTIC BAG

Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
SPECIAL TEST		02/12/07	MM			

SEE ATTACHED RESULT

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

* = See end of report for comments and notes applying to this sample

KEITH CHADWICK
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Purchase Order No.:

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample #: CA-AIR1-TO13-020807

Sample ID: 07B04176

Sampled: 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	0.80	02/10/07	BGL	0.10		
Acenaphthene	ug/m3	0.0021	02/10/07	BGL	0.0003		
Acenaphthylene	ug	0.17	02/10/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Anthracene	ug	0.15	02/10/07	BGL	0.10		
Anthracene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Benzo(a)anthracene	ug	0.10	02/10/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	0.0003	02/10/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.28	02/10/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0007	02/10/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	0.17	02/10/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Benzo(e)pyrene	ug	ND	02/10/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	ND	02/10/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	ND	02/10/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	ND	02/10/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	ND	02/10/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	ND	02/10/07	BGL	0.0003		
Chrysene	ug	0.15	02/10/07	BGL	0.10		
Chrysene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/10/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/10/07	BGL	0.0003		
Fluoranthene	ug	0.47	02/10/07	BGL	0.10		
Fluoranthene	ug/m3	0.0012	02/10/07	BGL	0.0003		
Fluorene	ug	0.88	02/10/07	BGL	0.10		
Fluorene	ug/m3	0.0023	02/10/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	ND	02/10/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	ND	02/10/07	BGL	0.0003		
1-Methylnaphthalene	ug	9.80	02/10/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0255	02/10/07	BGL	0.0003		

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KEITH CHADWICK
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Purchase Order No.:

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample # : CA-AIR1-TO13-020807

Sample ID : 07B04176

Sampled : 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	16.8	02/10/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0436	02/10/07	BGL	0.0003		
Naphthalene	ug	28.8	02/10/07	BGL	0.10		
Naphthalene	ug/m3	0.0748	02/10/07	BGL	0.0003		
Perylene	ug	ND	02/10/07	BGL	0.10		
Perylene	ug/m3	ND	02/10/07	BGL	0.0003		
Phenanthrene	ug	1.49	02/10/07	BGL	0.10		
Phenanthrene	ug/m3	0.0039	02/10/07	BGL	0.0003		
Pyrene	ug	0.27	02/10/07	BGL	0.10		
Pyrene	ug/m3	0.0007	02/10/07	BGL	0.0003		
Air Volume	liters	384900	02/10/07	BGL			

Analytical Method:
EPA TO-13

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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Purchase Order No.:

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample #: CA-AIR2-TO13-020807

Sample ID: 07B04177

Sampled: 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	0.93	02/10/07	BGL	0.10		
Acenaphthene	ug/m3	0.0024	02/10/07	BGL	0.0003		
Acenaphthylene	ug	0.23	02/10/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0006	02/10/07	BGL	0.0003		
Anthracene	ug	0.30	02/10/07	BGL	0.10		
Anthracene	ug/m3	0.0008	02/10/07	BGL	0.0003		
Benzo(a)anthracene	ug	0.30	02/10/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	0.0008	02/10/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.39	02/10/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0010	02/10/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	0.42	02/10/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0011	02/10/07	BGL	0.0003		
Benzo(e)pyrene	ug	0.20	02/10/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	0.0005	02/10/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	0.22	02/10/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	0.0006	02/10/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	0.16	02/10/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Chrysene	ug	0.36	02/10/07	BGL	0.10		
Chrysene	ug/m3	0.0009	02/10/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/10/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/10/07	BGL	0.0003		
Fluoranthene	ug	1.10	02/10/07	BGL	0.10		
Fluoranthene	ug/m3	0.0028	02/10/07	BGL	0.0003		
Fluorene	ug	1.22	02/10/07	BGL	0.10		
Fluorene	ug/m3	0.0031	02/10/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	0.23	02/10/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	0.0006	02/10/07	BGL	0.0003		
1-Methylnaphthalene	ug	9.00	02/10/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0229	02/10/07	BGL	0.0003		

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KEITH CHADWICK
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Purchase Order No.:

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample # : CA-AIR2-TO13-020807

Sample ID : 07B04177

Sampled : 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	15.2	02/10/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0387	02/10/07	BGL	0.0003		
Naphthalene	ug	25.2	02/10/07	BGL	0.10		
Naphthalene	ug/m3	0.0641	02/10/07	BGL	0.0003		
Perylene	ug	ND	02/10/07	BGL	0.10		
Perylene	ug/m3	ND	02/10/07	BGL	0.0003		
Phenanthrene	ug	2.78	02/10/07	BGL	0.10		
Phenanthrene	ug/m3	0.0071	02/10/07	BGL	0.0003		
Pyrene	ug	0.72	02/10/07	BGL	0.10		
Pyrene	ug/m3	0.0018	02/10/07	BGL	0.0003		
Air Volume	liters	392900	02/10/07	BGL			

Analytical Method:
EPA TO-13

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample #: CA-AIR3-TO13-020807

Sample ID: 07B04178

Sampled: 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	0.48	02/10/07	BGL	0.10		
Acenaphthene	ug/m3	0.0012	02/10/07	BGL	0.0003		
Acenaphthylene	ug	0.13	02/10/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0003	02/10/07	BGL	0.0003		
Anthracene	ug	0.23	02/10/07	BGL	0.10		
Anthracene	ug/m3	0.0006	02/10/07	BGL	0.0003		
Benzo(a)anthracene	ug	0.26	02/10/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	0.0007	02/10/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.35	02/10/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0009	02/10/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	0.38	02/10/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0010	02/10/07	BGL	0.0003		
Benzo(e)pyrene	ug	0.19	02/10/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	0.0005	02/10/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	0.17	02/10/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	0.12	02/10/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	0.0003	02/10/07	BGL	0.0003		
Chrysene	ug	0.32	02/10/07	BGL	0.10		
Chrysene	ug/m3	0.0008	02/10/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/10/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/10/07	BGL	0.0003		
Fluoranthene	ug	0.86	02/10/07	BGL	0.10		
Fluoranthene	ug/m3	0.0022	02/10/07	BGL	0.0003		
Fluorene	ug	0.75	02/10/07	BGL	0.10		
Fluorene	ug/m3	0.0019	02/10/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	0.18	02/10/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	0.0005	02/10/07	BGL	0.0003		
1-Methylnaphthalene	ug	3.60	02/10/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0093	02/10/07	BGL	0.0003		

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KEITH CHADWICK
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Purchase Order No.:

2/12/2007
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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample # : CA-AIR3-TO13-020807

Sample ID : 07B04178

Sampled : 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	7.40	02/10/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0191	02/10/07	BGL	0.0003		
Naphthalene	ug	19.0	02/10/07	BGL	0.10		
Naphthalene	ug/m3	0.0490	02/10/07	BGL	0.0003		
Perylene	ug	ND	02/10/07	BGL	0.10		
Perylene	ug/m3	ND	02/10/07	BGL	0.0003		
Phenanthrene	ug	1.67	02/10/07	BGL	0.10		
Phenanthrene	ug/m3	0.0043	02/10/07	BGL	0.0003		
Pyrene	ug	0.57	02/10/07	BGL	0.10		
Pyrene	ug/m3	0.0015	02/10/07	BGL	0.0003		
Air Volume	liters	387400	02/10/07	BGL			

Analytical Method:
EPA TO-13

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

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Purchase Order No.:

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample #: CA-AIR4-TO13-020807

Sample ID: 07B04179

Sampled: 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acenaphthene	ug	0.48	02/10/07	BGL	0.10		
Acenaphthene	ug/m3	0.0014	02/10/07	BGL	0.0003		
Acenaphthylene	ug	0.13	02/10/07	BGL	0.10		
Acenaphthylene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Anthracene	ug	0.22	02/10/07	BGL	0.10		
Anthracene	ug/m3	0.0007	02/10/07	BGL	0.0003		
Benzo(a)anthracene	ug	0.24	02/10/07	BGL	0.10		
Benzo(a)anthracene	ug/m3	0.0007	02/10/07	BGL	0.0003		
Benzo(a)pyrene	ug	0.37	02/10/07	BGL	0.10		
Benzo(a)pyrene	ug/m3	0.0011	02/10/07	BGL	0.0003		
Benzo(b)fluoranthene	ug	0.34	02/10/07	BGL	0.10		
Benzo(b)fluoranthene	ug/m3	0.0010	02/10/07	BGL	0.0003		
Benzo(e)pyrene	ug	0.16	02/10/07	BGL	0.10		
Benzo(e)pyrene	ug/m3	0.0005	02/10/07	BGL	0.0003		
Benzo(g,h,i)perylene	ug	0.16	02/10/07	BGL	0.10		
Benzo(g,h,i)perylene	ug/m3	0.0005	02/10/07	BGL	0.0003		
Benzo(k)fluoranthene	ug	0.12	02/10/07	BGL	0.10		
Benzo(k)fluoranthene	ug/m3	0.0004	02/10/07	BGL	0.0003		
Chrysene	ug	0.25	02/10/07	BGL	0.10		
Chrysene	ug/m3	0.0007	02/10/07	BGL	0.0003		
Dibenzo(a,h)anthracene	ug	ND	02/10/07	BGL	0.10		
Dibenzo(a,h)anthracene	ug/m3	ND	02/10/07	BGL	0.0003		
Fluoranthene	ug	0.80	02/10/07	BGL	0.10		
Fluoranthene	ug/m3	0.0024	02/10/07	BGL	0.0003		
Fluorene	ug	0.70	02/10/07	BGL	0.10		
Fluorene	ug/m3	0.0021	02/10/07	BGL	0.0003		
Indeno(1,2,3-cd)pyrene	ug	0.16	02/10/07	BGL	0.10		
Indeno(1,2,3-cd)pyrene	ug/m3	0.0005	02/10/07	BGL	0.0003		
1-Methylnaphthalene	ug	2.54	02/10/07	BGL	0.10		
1-Methylnaphthalene	ug/m3	0.0076	02/10/07	BGL	0.0003		

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* = See end of report for comments and notes applying to this sample

KEITH CHADWICK
D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMT-03798
Job Number: 2006-516

Field Sample # : CA-AIR4-TO13-020807

Sample ID : 07B04179

Sampled : 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
2-Methylnaphthalene	ug	4.57	02/10/07	BGL	0.10		
2-Methylnaphthalene	ug/m3	0.0137	02/10/07	BGL	0.0003		
Naphthalene	ug	16.2	02/10/07	BGL	0.10		
Naphthalene	ug/m3	0.0485	02/10/07	BGL	0.0003		
Perylene	ug	ND	02/10/07	BGL	0.10		
Perylene	ug/m3	ND	02/10/07	BGL	0.0003		
Phenanthrene	ug	1.50	02/10/07	BGL	0.10		
Phenanthrene	ug/m3	0.0045	02/10/07	BGL	0.0003		
Pyrene	ug	0.54	02/10/07	BGL	0.10		
Pyrene	ug/m3	0.0016	02/10/07	BGL	0.0003		
Air Volume	liters	334200	02/10/07	BGL			

Analytical Method:
EPA TO-13

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT, AND ANALYZED BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS).

RL = Reporting Limit

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020807

Sample ID : 07B04172

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	9.2	02/10/07	WSD	0.50		
Benzene	PPBv	ND	02/10/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/10/07	WSD	0.50		
Bromomethane	PPBv	ND	02/10/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/10/07	WSD	0.50		
2-Butanone (MEK)	PPBv	2.0	02/10/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/10/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/10/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroform	PPBv	ND	02/10/07	WSD	0.50		
Chloromethane	PPBv	ND	02/10/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/10/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/10/07	WSD	0.50		
Ethanol	PPBv	ND	02/10/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample #: CA-AIR1-TO15-020807

Sample ID: 07B04172

Sampled: 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/10/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/10/07	WSD	0.50		
n-Heptane	PPBv	ND	02/10/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/10/07	WSD	0.50		
Hexane	PPBv	ND	02/10/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/10/07	WSD	0.50		
Isopropanol	PPBv	1.1	02/10/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/10/07	WSD	0.50		
Methylene Chloride	PPBv	0.67	02/10/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/10/07	WSD	0.50		
Propene	PPBv	ND	02/10/07	WSD	0.50		
Styrene	PPBv	ND	02/10/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/10/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/10/07	WSD	0.50		
Toluene	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
Vinyl Acetate	PPBv	ND	02/10/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
m/p-Xylene	PPBv	1.3	02/10/07	WSD	1.0		
o-Xylene	PPBv	ND	02/10/07	WSD	0.50		

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KEITH CHADWICK

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020807

Sample ID : 07B04173

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	11.	02/10/07	WSD	0.50		
Benzene	PPBv	ND	02/10/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/10/07	WSD	0.50		
Bromomethane	PPBv	ND	02/10/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/10/07	WSD	0.50		
2-Butanone (MEK)	PPBv	1.0	02/10/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/10/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/10/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroform	PPBv	ND	02/10/07	WSD	0.50		
Chloromethane	PPBv	ND	02/10/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/10/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/10/07	WSD	0.50		
Ethanol	PPBv	ND	02/10/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample #: CA-AIR2-TO15-020807

Sample ID: 07B04173

Sampled: 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/10/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/10/07	WSD	0.50		
n-Heptane	PPBv	ND	02/10/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/10/07	WSD	0.50		
Hexane	PPBv	6.0	02/10/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/10/07	WSD	0.50		
Isopropanol	PPBv	ND	02/10/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/10/07	WSD	0.50		
Methylene Chloride	PPBv	ND	02/10/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/10/07	WSD	0.50		
Propene	PPBv	ND	02/10/07	WSD	0.50		
Styrene	PPBv	ND	02/10/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/10/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/10/07	WSD	0.50		
Toluene	PPBv	3.2	02/10/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
Vinyl Acetate	PPBv	1.2	02/10/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/10/07	WSD	1.0		
o-Xylene	PPBv	ND	02/10/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020807

Sample ID : 07B04174

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	15.	02/10/07	WSD	0.50		
Benzene	PPBv	ND	02/10/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/10/07	WSD	0.50		
Bromomethane	PPBv	ND	02/10/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/10/07	WSD	0.50		
2-Butanone (MEK)	PPBv	ND	02/10/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/10/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/10/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroform	PPBv	ND	02/10/07	WSD	0.50		
Chloromethane	PPBv	ND	02/10/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/10/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/10/07	WSD	0.50		
Ethanol	PPBv	ND	02/10/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample #: CA-AIR3-TO15-020807

Sample ID: 07B04174

Sampled: 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/10/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/10/07	WSD	0.50		
n-Heptane	PPBv	ND	02/10/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/10/07	WSD	0.50		
Hexane	PPBv	ND	02/10/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/10/07	WSD	0.50		
Isopropanol	PPBv	0.80	02/10/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/10/07	WSD	0.50		
Methylene Chloride	PPBv	1.1	02/10/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/10/07	WSD	0.50		
Propene	PPBv	ND	02/10/07	WSD	0.50		
Styrene	PPBv	ND	02/10/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/10/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/10/07	WSD	0.50		
Toluene	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
Vinyl Acetate	PPBv	0.60	02/10/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/10/07	WSD	1.0		
o-Xylene	PPBv	ND	02/10/07	WSD	0.50		

RL = Reporting Limit

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NM = Not Measured

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* = See end of report for comments and notes applying to this sample

KEITH CHADWICK

D.A. COLLINS COMPANIES

101 ROUTE 67, PO BOX 191

MECHANICSVILLE, NY 12118

Purchase Order No.:

2/12/2007

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020807

Sample ID : 07B04175

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	PPBv	3.3	02/10/07	WSD	0.50		
Benzene	PPBv	ND	02/10/07	WSD	0.50		
Benzyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
Bromodichloromethane	PPBv	ND	02/10/07	WSD	0.50		
Bromomethane	PPBv	ND	02/10/07	WSD	0.50		
1,3-Butadiene	PPBv	ND	02/10/07	WSD	0.50		
2-Butanone (MEK)	PPBv	ND	02/10/07	WSD	0.50		
Carbon Disulfide	PPBv	ND	02/10/07	WSD	0.50		
Carbon Tetrachloride	PPBv	ND	02/10/07	WSD	0.50		
Chlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Chlorodibromomethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroethane	PPBv	ND	02/10/07	WSD	0.50		
Chloroform	PPBv	ND	02/10/07	WSD	0.50		
Chloromethane	PPBv	ND	02/10/07	WSD	0.50		
Cyclohexane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dibromoethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,4-Dichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
Dichlorodifluoromethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
cis-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
t-1,2-Dichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichloropropane	PPBv	ND	02/10/07	WSD	0.50		
cis-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
trans-1,3-Dichloropropene	PPBv	ND	02/10/07	WSD	0.50		
1,2-Dichlorotetrafluoroethane (114)	PPBv	ND	02/10/07	WSD	0.50		
Ethanol	PPBv	ND	02/10/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020807

Sample ID : 07B04175

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	PPBv	ND	02/10/07	WSD	0.50		
Ethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
4-Ethyl Toluene	PPBv	ND	02/10/07	WSD	0.50		
n-Heptane	PPBv	ND	02/10/07	WSD	0.50		
Hexachlorobutadiene	PPBv	ND	02/10/07	WSD	0.50		
Hexane	PPBv	ND	02/10/07	WSD	0.50		
2-Hexanone	PPBv	ND	02/10/07	WSD	0.50		
Isopropanol	PPBv	ND	02/10/07	WSD	0.50		
Methyl tert-Butyl Ether (MTBE)	PPBv	ND	02/10/07	WSD	0.50		
Methylene Chloride	PPBv	ND	02/10/07	WSD	0.50		
4-Methyl-2-Pentanone (MIBK)	PPBv	ND	02/10/07	WSD	0.50		
Propene	PPBv	ND	02/10/07	WSD	0.50		
Styrene	PPBv	ND	02/10/07	WSD	0.50		
1,1,2,2-Tetrachloroethane	PPBv	ND	02/10/07	WSD	0.50		
Tetrachloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Tetrahydrofuran	PPBv	ND	02/10/07	WSD	0.50		
Toluene	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trichlorobenzene	PPBv	ND	02/10/07	WSD	0.50		
1,1,1-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloroethane	PPBv	ND	02/10/07	WSD	0.50		
Trichloroethylene	PPBv	ND	02/10/07	WSD	0.50		
Trichlorofluoromethane (Freon 11)	PPBv	ND	02/10/07	WSD	0.50		
1,1,2-Trichloro-1,2,2-Trifluoroethane	PPBv	ND	02/10/07	WSD	0.50		
1,2,4-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
1,3,5-Trimethylbenzene	PPBv	ND	02/10/07	WSD	0.50		
Vinyl Acetate	PPBv	ND	02/10/07	WSD	0.50		
Vinyl Chloride	PPBv	ND	02/10/07	WSD	0.50		
m/p-Xylene	PPBv	ND	02/10/07	WSD	1.0		
o-Xylene	PPBv	ND	02/10/07	WSD	0.50		

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020807

Sample ID : 07B04172

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	22.	02/10/07	WSD	1.2		
Benzene	ug/m3	ND	02/10/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/10/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/10/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/10/07	WSD	1.9		
1,3-Butadiene	ug/m3	ND	02/10/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	6.0	02/10/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/10/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/10/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/10/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/10/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/10/07	WSD	1.3		
Chloroform	ug/m3	ND	02/10/07	WSD	2.4		
Chloromethane	ug/m3	ND	02/10/07	WSD	1.0		
Cyclohexane	ug/m3	ND	02/10/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,3-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,4-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
Dichlorodifluoromethane	ug/m3	ND	02/10/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,1-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/10/07	WSD	2.3		
cis-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/10/07	WSD	3.5		
Ethanol	ug/m3	ND	02/10/07	WSD	0.90		

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Purchase Order No.:

Project Location: FBR

Date Received: 2/9/2007

Field Sample # : CA-AIR1-TO15-020807

Sample ID : 07B04172

Sample Matrix: AIR

Sampled : 2/9/2007

NOT SPECIFIED

Sample Medium : SUMMA

2/12/2007

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LIMS-BAT #: LIMIT-03798

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/10/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/10/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/10/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/10/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/10/07	WSD	5.3		
Hexane	ug/m3	ND	02/10/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/10/07	WSD	2.0		
Isopropanol	ug/m3	2.6	02/10/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/10/07	WSD	1.8		
Methylene Chloride	ug/m3	2.3	02/10/07	WSD	1.7		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/10/07	WSD	2.0		
Propene	ug/m3	ND	02/10/07	WSD	0.90		
Styrene	ug/m3	ND	02/10/07	WSD	2.1		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/10/07	WSD	3.4		
Tetrachloroethylene	ug/m3	ND	02/10/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/10/07	WSD	1.5		
Toluene	ug/m3	ND	02/10/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/10/07	WSD	3.7		
1,1,1-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
1,1,2-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
Trichloroethylene	ug/m3	ND	02/10/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/10/07	WSD	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
Vinyl Acetate	ug/m3	ND	02/10/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/10/07	WSD	1.3		
m/p-Xylene	ug/m3	5.6	02/10/07	WSD	4.3		
o-Xylene	ug/m3	ND	02/10/07	WSD	2.2		

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR1-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020807

Sample ID : 07B04173

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	26.	02/10/07	WSD	1.2		
Benzene	ug/m3	ND	02/10/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/10/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/10/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/10/07	WSD	1.9		
1,3-Butadiene	ug/m3	ND	02/10/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	3.0	02/10/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/10/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/10/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/10/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/10/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/10/07	WSD	1.3		
Chloroform	ug/m3	ND	02/10/07	WSD	2.4		
Chloromethane	ug/m3	ND	02/10/07	WSD	1.0		
Cyclohexane	ug/m3	ND	02/10/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,3-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,4-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
Dichlorodifluoromethane	ug/m3	ND	02/10/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,1-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/10/07	WSD	2.3		
cis-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/10/07	WSD	3.5		
Ethanol	ug/m3	ND	02/10/07	WSD	0.90		

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Project Location: FBR
Date Received: 2/9/2007

LIMS-BAT #: LIMIT-03798
Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020807

Sample ID : 07B04173

Sampled : 2/9/2007
NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/10/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/10/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/10/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/10/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/10/07	WSD	5.3		
Hexane	ug/m3	21.	02/10/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/10/07	WSD	2.0		
Isopropanol	ug/m3	ND	02/10/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/10/07	WSD	1.8		
Methylene Chloride	ug/m3	ND	02/10/07	WSD	1.7		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/10/07	WSD	2.0		
Propene	ug/m3	ND	02/10/07	WSD	0.90		
Styrene	ug/m3	ND	02/10/07	WSD	2.1		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/10/07	WSD	3.4		
Tetrachloroethylene	ug/m3	ND	02/10/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/10/07	WSD	1.5		
Toluene	ug/m3	12.	02/10/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/10/07	WSD	3.7		
1,1,1-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
1,1,2-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
Trichloroethylene	ug/m3	ND	02/10/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/10/07	WSD	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
Vinyl Acetate	ug/m3	4.0	02/10/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/10/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/10/07	WSD	4.3		
o-Xylene	ug/m3	ND	02/10/07	WSD	2.2		

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR2-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020807

Sample ID : 07B04174

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	35.	02/10/07	WSD	1.2		
Benzene	ug/m3	ND	02/10/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/10/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/10/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/10/07	WSD	1.9		
1,3-Butadiene	ug/m3	ND	02/10/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	ND	02/10/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/10/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/10/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/10/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/10/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/10/07	WSD	1.3		
Chloroform	ug/m3	ND	02/10/07	WSD	2.4		
Chloromethane	ug/m3	ND	02/10/07	WSD	1.0		
Cyclohexane	ug/m3	ND	02/10/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,3-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,4-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
Dichlorodifluoromethane	ug/m3	ND	02/10/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,1-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/10/07	WSD	2.3		
cis-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/10/07	WSD	3.5		
Ethanol	ug/m3	ND	02/10/07	WSD	0.90		

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* = See end of report for comments and notes applying to this sample

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample #: CA-AIR3-TO15-020807

Sample ID: 07B04174

Sampled: 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/10/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/10/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/10/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/10/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/10/07	WSD	5.3		
Hexane	ug/m3	ND	02/10/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/10/07	WSD	2.0		
Isopropanol	ug/m3	2.0	02/10/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/10/07	WSD	1.8		
Methylene Chloride	ug/m3	4.0	02/10/07	WSD	1.7		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/10/07	WSD	2.0		
Propene	ug/m3	ND	02/10/07	WSD	0.90		
Styrene	ug/m3	ND	02/10/07	WSD	2.1		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/10/07	WSD	3.4		
Tetrachloroethylene	ug/m3	ND	02/10/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/10/07	WSD	1.5		
Toluene	ug/m3	ND	02/10/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/10/07	WSD	3.7		
1,1,1-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
1,1,2-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
Trichloroethylene	ug/m3	ND	02/10/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/10/07	WSD	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
Vinyl Acetate	ug/m3	2.1	02/10/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/10/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/10/07	WSD	4.3		
o-Xylene	ug/m3	ND	02/10/07	WSD	2.2		

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KEITH CHADWICK

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Purchase Order No.:

2/12/2007

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR3-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample #: CA-AIR4-TO15-020807

Sample ID: 07B04175

Sampled: 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium: SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Acetone	ug/m3	7.8	02/10/07	WSD	1.2		
Benzene	ug/m3	ND	02/10/07	WSD	1.6		
Benzyl Chloride	ug/m3	ND	02/10/07	WSD	2.6		
Bromodichloromethane	ug/m3	ND	02/10/07	WSD	3.4		
Bromomethane	ug/m3	ND	02/10/07	WSD	1.9		
1,3-Butadiene	ug/m3	ND	02/10/07	WSD	1.1		
2-Butanone (MEK)	ug/m3	ND	02/10/07	WSD	1.5		
Carbon Disulfide	ug/m3	ND	02/10/07	WSD	1.6		
Carbon Tetrachloride	ug/m3	ND	02/10/07	WSD	3.1		
Chlorobenzene	ug/m3	ND	02/10/07	WSD	2.3		
Chlorodibromomethane	ug/m3	ND	02/10/07	WSD	4.3		
Chloroethane	ug/m3	ND	02/10/07	WSD	1.3		
Chloroform	ug/m3	ND	02/10/07	WSD	2.4		
Chloromethane	ug/m3	ND	02/10/07	WSD	1.0		
Cyclohexane	ug/m3	ND	02/10/07	WSD	1.7		
1,2-Dibromoethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,3-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
1,4-Dichlorobenzene	ug/m3	ND	02/10/07	WSD	3.0		
Dichlorodifluoromethane	ug/m3	ND	02/10/07	WSD	2.5		
1,1-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloroethane	ug/m3	ND	02/10/07	WSD	2.0		
1,1-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
cis-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
t-1,2-Dichloroethylene	ug/m3	ND	02/10/07	WSD	2.0		
1,2-Dichloropropane	ug/m3	ND	02/10/07	WSD	2.3		
cis-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
trans-1,3-Dichloropropene	ug/m3	ND	02/10/07	WSD	2.3		
1,2-Dichlorotetrafluoroethane (114)	ug/m3	ND	02/10/07	WSD	3.5		
Ethanol	ug/m3	ND	02/10/07	WSD	0.90		

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMIT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020807

Sample ID : 07B04175

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : SUMMA

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
Ethyl Acetate	ug/m3	ND	02/10/07	WSD	1.8		
Ethylbenzene	ug/m3	ND	02/10/07	WSD	2.2		
4-Ethyl Toluene	ug/m3	ND	02/10/07	WSD	2.5		
n-Heptane	ug/m3	ND	02/10/07	WSD	2.0		
Hexachlorobutadiene	ug/m3	ND	02/10/07	WSD	5.3		
Hexane	ug/m3	ND	02/10/07	WSD	1.8		
2-Hexanone	ug/m3	ND	02/10/07	WSD	2.0		
Isopropanol	ug/m3	ND	02/10/07	WSD	1.2		
Methyl tert-Butyl Ether (MTBE)	ug/m3	ND	02/10/07	WSD	1.8		
Methylene Chloride	ug/m3	ND	02/10/07	WSD	1.7		
4-Methyl-2-Pentanone (MIBK)	ug/m3	ND	02/10/07	WSD	2.0		
Propene	ug/m3	ND	02/10/07	WSD	0.90		
Styrene	ug/m3	ND	02/10/07	WSD	2.1		
1,1,2,2-Tetrachloroethane	ug/m3	ND	02/10/07	WSD	3.4		
Tetrachloroethylene	ug/m3	ND	02/10/07	WSD	3.4		
Tetrahydrofuran	ug/m3	ND	02/10/07	WSD	1.5		
Toluene	ug/m3	ND	02/10/07	WSD	1.9		
1,2,4-Trichlorobenzene	ug/m3	ND	02/10/07	WSD	3.7		
1,1,1-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
1,1,2-Trichloroethane	ug/m3	ND	02/10/07	WSD	2.7		
Trichloroethylene	ug/m3	ND	02/10/07	WSD	2.7		
Trichlorofluoromethane	ug/m3	ND	02/10/07	WSD	2.8		
1,1,2-Trichloro-1,2,2-Trifluoroethane	ug/m3	ND	02/10/07	WSD	3.8		
1,2,4-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
1,3,5-Trimethylbenzene	ug/m3	ND	02/10/07	WSD	2.5		
Vinyl Acetate	ug/m3	ND	02/10/07	WSD	1.8		
Vinyl Chloride	ug/m3	ND	02/10/07	WSD	1.3		
m/p-Xylene	ug/m3	ND	02/10/07	WSD	4.3		
o-Xylene	ug/m3	ND	02/10/07	WSD	2.2		

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Purchase Order No.:

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Project Location: FBR

LIMS-BAT #: LIMT-03798

Date Received: 2/9/2007

Job Number: 2006-516

Field Sample # : CA-AIR4-TO15-020807

Analytical Method:

EPA TO-15

SAMPLES ARE TAKEN IN SUMMA CANISTERS AND ANALYZED BY GAS CHROMATOGRAPHY WITH MASS SPECTROMETRY DETECTION. (GC/MS)

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.



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Purchase Order No.:

Project Location: FBR

Date Received: 2/9/2007

Field Sample # : CA-AIR1-TO4-020807

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LIMS-BAT #: LIMT-03798

Job Number: 2006-516

Sample ID : 07B04180

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/10/07	JB	1.00		
PCB 1016	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1221	ug	ND	02/10/07	JB	1.00		
PCB 1221	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1232	ug	ND	02/10/07	JB	1.00		
PCB 1232	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1242	ug	5.95	02/10/07	JB	1.00		
PCB 1242	ug/m3	0.0166	02/10/07	JB	0.0028		
PCB 1248	ug	ND	02/10/07	JB	1.00		
PCB 1248	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1254	ug	ND	02/10/07	JB	1.00		
PCB 1254	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1260	ug	ND	02/10/07	JB	1.00		
PCB 1260	ug/m3	ND	02/10/07	JB	0.0028		
Air Volume	liters	358900.	02/10/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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Purchase Order No.:

Project Location: FBR

Date Received: 2/9/2007

Field Sample # : CA-AIR2-TO4-020807

Sample ID : 07B04181

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

2/12/2007

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LIMS-BAT #: LIMT-03798

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/10/07	JB	1.00		
PCB 1016	ug/m3	ND	02/10/07	JB	0.0027		
PCB 1221	ug	ND	02/10/07	JB	1.00		
PCB 1221	ug/m3	ND	02/10/07	JB	0.0027		
PCB 1232	ug	ND	02/10/07	JB	1.00		
PCB 1232	ug/m3	ND	02/10/07	JB	0.0027		
PCB 1242	ug	5.35	02/10/07	JB	1.00		
PCB 1242	ug/m3	0.0141	02/10/07	JB	0.0026		
PCB 1248	ug	ND	02/10/07	JB	1.00		
PCB 1248	ug/m3	ND	02/10/07	JB	0.0027		
PCB 1254	ug	ND	02/10/07	JB	1.00		
PCB 1254	ug/m3	ND	02/10/07	JB	0.0027		
PCB 1260	ug	ND	02/10/07	JB	1.00		
PCB 1260	ug/m3	ND	02/10/07	JB	0.0027		
Air Volume	liters	379600.	02/10/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

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KEITH CHADWICK

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Purchase Order No.:

Project Location: FBR

Date Received: 2/9/2007

Field Sample # : CA-AIR3-TO4-020807

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LIMS-BAT #: LIMT-03798

Job Number: 2006-516

Sample ID : 07B04182

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/10/07	JB	1.00		
PCB 1016	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1221	ug	ND	02/10/07	JB	1.00		
PCB 1221	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1232	ug	ND	02/10/07	JB	1.00		
PCB 1232	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1242	ug	ND	02/10/07	JB	1.00		
PCB 1242	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1248	ug	ND	02/10/07	JB	1.00		
PCB 1248	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1254	ug	ND	02/10/07	JB	1.00		
PCB 1254	ug/m3	ND	02/10/07	JB	0.0028		
PCB 1260	ug	ND	02/10/07	JB	1.00		
PCB 1260	ug/m3	ND	02/10/07	JB	0.0028		
Air Volume	liters	369200.	02/10/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

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SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

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Purchase Order No.:

Project Location: FBR

Date Received: 2/9/2007

Field Sample # : CA-AIR4-TO4-020807

Sample ID : 07B04183

Sampled : 2/9/2007

NOT SPECIFIED

Sample Matrix: AIR

Sample Medium : ALUMINUM CAN

2/12/2007

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LIMS-BAT #: LIMT-03798

Job Number: 2006-516

	Units	Results	Date Analyzed	Analyst	RL	SPEC Limit Lo Hi	P/ F
PCB 1016	ug	ND	02/10/07	JB	1.00		
PCB 1016	ug/m3	ND	02/10/07	JB	0.0025		
PCB 1221	ug	ND	02/10/07	JB	1.00		
PCB 1221	ug/m3	ND	02/10/07	JB	0.0025		
PCB 1232	ug	ND	02/10/07	JB	1.00		
PCB 1232	ug/m3	ND	02/10/07	JB	0.0025		
PCB 1242	ug	ND	02/10/07	JB	1.00		
PCB 1242	ug/m3	ND	02/10/07	JB	0.0025		
PCB 1248	ug	ND	02/10/07	JB	1.00		
PCB 1248	ug/m3	ND	02/10/07	JB	0.0025		
PCB 1254	ug	ND	02/10/07	JB	1.00		
PCB 1254	ug/m3	ND	02/10/07	JB	0.0025		
PCB 1260	ug	ND	02/10/07	JB	1.00		
PCB 1260	ug/m3	ND	02/10/07	JB	0.0025		
Air Volume	liters	401100.	02/10/07	JB			

Analytical Method:

EPA TO-4

SAMPLES ARE COLLECTED ON PUF CARTRIDGES, DESORBED WITH SOLVENT AND ANALYZED BY GAS CHROMATOGRAPHY WITH ELECTRON CAPTURE DETECTION (GC/ECD).

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or regulatory level for comparison with data to determine PASS (P) or FAIL (F) condition of results.

KEITH CHADWICK
D.A. COLLINS COMPANIES
101 ROUTE 67, PO BOX 191
MECHANICSVILLE, NY 12118

Purchase Order No.:

Project Location: FBR
Date Received: 2/9/2007

2/12/2007

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LIMS-BAT #: LIMT-03798
Job Number: 2006-516

** END OF REPORT **

RL = Reporting Limit

ND = Not Detected at or above the Reporting Limit

NM = Not Measured

* = See end of report for comments and notes applying to this sample

SPEC LIMIT = a client specified recommended or
regulatory level for comparison with data to
determine PASS (P) or FAIL (F) condition of results.



39 Spruce Street ° East Longmeadow, MA 01028 ° FAX 413/525-6405 ° TEL. 413/525-2332

QC SUMMARY REPORT

SAMPLE QC: Sample Results with Duplicates

BATCH QC: Lab fortified Blanks and Duplicates

Sample Matrix Spikes and Matrix Spike Duplicates

Standard Reference Materials and Duplicates

Method Blanks

Report Date: 2/12/2007

Lims Bat # : LIMIT-03798

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QC Batch Number: BATCH-11961

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B04172	4-Bromofluorobenzene	Surrogate Recovery	77.88	%	70-130
07B04173	4-Bromofluorobenzene	Surrogate Recovery	77.50	%	70-130
07B04174	4-Bromofluorobenzene	Surrogate Recovery	84.38	%	70-130
07B04175	4-Bromofluorobenzene	Surrogate Recovery	78.75	%	70-130
BLANK-98356	Acetone	Blank	<1.2	ug/m3	
	Benzene	Blank	<1.6	ug/m3	
	Carbon Tetrachloride	Blank	<3.1	ug/m3	
	Chloroform	Blank	<2.4	ug/m3	
	1,2-Dichloroethane	Blank	<2.0	ug/m3	
	1,4-Dichlorobenzene	Blank	<3.0	ug/m3	
	Ethyl Acetate	Blank	<1.8	ug/m3	
	Ethylbenzene	Blank	<2.2	ug/m3	
	Hexane	Blank	<1.8	ug/m3	
	Isopropanol	Blank	<1.2	ug/m3	
	2-Butanone (MEK)	Blank	<1.5	ug/m3	
	4-Methyl-2-Pentanone (MIBK)	Blank	<2.0	ug/m3	
	Styrene	Blank	<2.1	ug/m3	
	Tetrachloroethylene	Blank	<3.4	ug/m3	
	Toluene	Blank	<1.9	ug/m3	
	1,1,1-Trichloroethane	Blank	<2.7	ug/m3	
	Trichloroethylene	Blank	<2.7	ug/m3	
	1,1,2-Trichloro-1,2,2-Trifluoroethane	Blank	<3.8	ug/m3	
	Trichlorofluoromethane	Blank	<2.8	ug/m3	
	o-Xylene	Blank	<2.2	ug/m3	
	m/p-Xylene	Blank	<4.3	ug/m3	
	1,2-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,3-Dichlorobenzene	Blank	<3.0	ug/m3	
	1,1-Dichloroethane	Blank	<2.0	ug/m3	
	1,1-Dichloroethylene	Blank	<2.0	ug/m3	
	Ethanol	Blank	<0.90	ug/m3	
	4-Ethyl Toluene	Blank	<2.5	ug/m3	
	Methyl tert-Butyl Ether (MTBE)	Blank	<1.8	ug/m3	
	t-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	Vinyl Chloride	Blank	<1.3	ug/m3	
	Methylene Chloride	Blank	<1.7	ug/m3	
	Chlorobenzene	Blank	<2.3	ug/m3	
	Chloromethane	Blank	<1.0	ug/m3	
	Bromomethane	Blank	<1.9	ug/m3	
	Chloroethane	Blank	<1.3	ug/m3	



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Lims Bat # : LIMIT-03798

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QC Batch Number: BATCH-11961

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-98356					
	cis-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	trans-1,3-Dichloropropene	Blank	<2.3	ug/m3	
	Chlorodibromomethane	Blank	<4.3	ug/m3	
	1,1,2-Trichloroethane	Blank	<2.7	ug/m3	
	1,1,2,2-Tetrachloroethane	Blank	<3.4	ug/m3	
	Hexachlorobutadiene	Blank	<5.3	ug/m3	
	1,2,4-Trichlorobenzene	Blank	<3.7	ug/m3	
	1,2,4-Trimethylbenzene	Blank	<2.5	ug/m3	
	1,3,5-Trimethylbenzene	Blank	<2.5	ug/m3	
	Cyclohexane	Blank	<1.7	ug/m3	
	cis-1,2-Dichloroethylene	Blank	<2.0	ug/m3	
	1,2-Dichloropropane	Blank	<2.3	ug/m3	
	Dichlorodifluoromethane	Blank	<2.5	ug/m3	
	Benzyl Chloride	Blank	<2.6	ug/m3	
	Carbon Disulfide	Blank	<1.6	ug/m3	
	Vinyl Acetate	Blank	<1.8	ug/m3	
	2-Hexanone	Blank	<2.0	ug/m3	
	Bromodichloromethane	Blank	<3.4	ug/m3	
	1,2-Dibromoethane	Blank	<3.8	ug/m3	
	n-Heptane	Blank	<2.0	ug/m3	
	1,2-Dichlorotetrafluoroethane (114)	Blank	<3.5	ug/m3	
	Tetrahydrofuran	Blank	<1.5	ug/m3	
	Propene	Blank	<0.90	ug/m3	
	1,3-Butadiene	Blank	<1.1	ug/m3	



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QC Batch Number: GC/ECD-9431

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B04180	Decachlorobiphenyl	Surrogate Recovery	107.5	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	107.5	%	
07B04181	Decachlorobiphenyl	Surrogate Recovery	107.5	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	107.5	%	
07B04182	Decachlorobiphenyl	Surrogate Recovery	112.5	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	112.5	%	
07B04183	Decachlorobiphenyl	Surrogate Recovery	110.0	%	
	Tetrachloro-m-Xylene	Surrogate Recovery	110.0	%	
BLANK-98336	PCB 1232	Blank	<0.20	ug	
	PCB 1242	Blank	<0.20	ug	
	PCB 1254	Blank	<0.20	ug	
	PCB 1260	Blank	<0.20	ug	
	PCB 1248	Blank	<0.20	ug	
	PCB 1221	Blank	<0.20	ug	
	PCB 1016	Blank	<0.20	ug	
LFBLANK-59534	PCB 1260	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.99	ug	
		Lab Fort Blk. % Rec.	99.00	%	
		Dup Lab Fort Bl Amt.	1.00	ug	
		Dup Lab Fort Bl. Fnd	1.01	ug	
		Dup Lab Fort Bl %Rec	101.00	%	
		Lab Fort Blank Range	2.00	units	
		Lab Fort Bl. Av. Rec	100.00	%	
		LFB Duplicate RPD	2.00	%	
	PCB 1016	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.09	ug	
		Lab Fort Blk. % Rec.	109.00	%	
		Dup Lab Fort Bl Amt.	1.00	ug	
		Dup Lab Fort Bl. Fnd	1.12	ug	
		Dup Lab Fort Bl %Rec	112.00	%	
		Lab Fort Blank Range	3.00	units	
		Lab Fort Bl. Av. Rec	110.50	%	
		LFB Duplicate RPD	2.71	%	

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QC Batch Number: GCMS/SEMI-9125

Sample Id	Analysis	QC Analysis	Values	Units	Limits
07B04176	Nitrobenzene-d5	Surrogate Recovery	135.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	75.0	%	
	Terphenyl-d14	Surrogate Recovery	77.5	%	
	Fluoranthene-d10	Surrogate Recovery	118.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	124.0	%	
07B04177	Nitrobenzene-d5	Surrogate Recovery	90.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	65.0	%	
	Terphenyl-d14	Surrogate Recovery	80.0	%	
	Fluoranthene-d10	Surrogate Recovery	114.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	122.0	%	
07B04178	Nitrobenzene-d5	Surrogate Recovery	120.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	40.0	%	
	Terphenyl-d14	Surrogate Recovery	41.0	%	
	Fluoranthene-d10	Surrogate Recovery	97.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	110.0	%	
07B04179	Nitrobenzene-d5	Surrogate Recovery	125.0	%	
	2-Fluorobiphenyl	Surrogate Recovery	80.0	%	
	Terphenyl-d14	Surrogate Recovery	85.0	%	
	Fluoranthene-d10	Surrogate Recovery	110.0	%	
	Benzo(a)pyrene-7,8-d12	Surrogate Recovery	124.0	%	
BLANK-98354	Naphthalene	Blank	<0.10	ug	
	Acenaphthene	Blank	<0.10	ug	
	Acenaphthylene	Blank	<0.10	ug	
	Anthracene	Blank	<0.10	ug	
	Benzo(a)anthracene	Blank	<0.10	ug	
	Benzo(a)pyrene	Blank	<0.10	ug	
	Benzo(b)fluoranthene	Blank	<0.10	ug	
	Benzo(g,h,i)perylene	Blank	<0.10	ug	
	Chrysene	Blank	<0.10	ug	
	Dibenzo(a,h)anthracene	Blank	<0.10	ug	
	Fluoranthene	Blank	<0.10	ug	
	Fluorene	Blank	<0.10	ug	
	Indeno(1,2,3-cd)pyrene	Blank	<0.10	ug	
	2-Methylnaphthalene	Blank	<0.10	ug	
	Phenanthrene	Blank	<0.10	ug	
	Pyrene	Blank	<0.10	ug	
	Benzo(k)fluoranthene	Blank	<0.10	ug	
	1-Methylnaphthalene	Blank	<0.10	ug	
	Benzo(e)pyrene	Blank	<0.10	ug	



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QC Batch Number: GCMS/SEMI-9125

Sample Id	Analysis	QC Analysis	Values	Units	Limits
BLANK-98354	Perylene	Blank	<0.10	ug	
LFBLANK-59551	Naphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.98	ug	
		Lab Fort Blk. % Rec.	98.00	%	
	Acenaphthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.06	ug	
		Lab Fort Blk. % Rec.	106.00	%	
	Acenaphthylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.95	ug	
		Lab Fort Blk. % Rec.	95.00	%	
	Anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.13	ug	
		Lab Fort Blk. % Rec.	113.00	%	
	Benzo(a)anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.17	ug	
		Lab Fort Blk. % Rec.	117.00	%	
	Benzo(a)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.97	ug	
		Lab Fort Blk. % Rec.	97.00	%	
	Benzo(b)fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.20	ug	
		Lab Fort Blk. % Rec.	120.00	%	
	Benzo(g,h,i)perylene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.14	ug	
		Lab Fort Blk. % Rec.	114.00	%	
	Chrysene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.22	ug	
		Lab Fort Blk. % Rec.	122.00	%	
	Dibenzo(a,h)anthracene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.12	ug	
		Lab Fort Blk. % Rec.	112.00	%	
	Fluoranthene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.22	ug	
		Lab Fort Blk. % Rec.	122.00	%	
	Fluorene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.11	ug	
		Lab Fort Blk. % Rec.	111.00	%	
	Indeno(1,2,3-cd)pyrene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
		Lab Fort Blk. % Rec.	110.00	%	
	2-Methylnaphthalene	Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	0.97	ug	



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QC Batch Number: GCMS/SEMI-9125

Sample Id	Analysis	QC Analysis	Values	Units	Limits
LFBLANK-59551	2-Methylnaphthalene	Lab Fort Blk. % Rec.	97.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
	Phenanthrene	Lab Fort Blk. % Rec.	110.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
	Pyrene	Lab Fort Blk. % Rec.	110.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.10	ug	
	Benzo(k)fluoranthene	Lab Fort Blk. % Rec.	110.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.24	ug	
	1-Methylnaphthalene	Lab Fort Blk. % Rec.	124.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.05	ug	
	Benzo(e)pyrene	Lab Fort Blk. % Rec.	105.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.36	ug	
	Perylene	Lab Fort Blk. % Rec.	136.00	%	
		Lab Fort Blank Amt.	1.00	ug	
		Lab Fort Blk. Found	1.31	ug	
	Perylene	Lab Fort Blk. % Rec.	131.00	%	



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NOTES:

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04176
Analysis : Benzo(a)pyrene-7,8-d12

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04176
Analysis : Nitrobenzene-d5

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04177
Analysis : Benzo(a)pyrene-7,8-d12

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04178
Analysis : 2-Fluorobiphenyl

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04178
Analysis : Terphenyl-d14

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04179
Analysis : Benzo(a)pyrene-7,8-d12

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : 07B04179
Analysis : Nitrobenzene-d5

SURROGATE RECOVERY IS OUTSIDE OF CONTROL LIMITS.

QC Batch No. : GCMS/SEMI-9125
Sample ID : LFBLANK-59551
Analysis : Benzo(e)pyrene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9125
Sample ID : LFBLANK-59551
Analysis : Benzo(k)fluoranthene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.



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QC Batch No. : GCMS/SEMI-9125

Sample ID : LFBLANK-59551

Analysis : Chrysene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9125

Sample ID : LFBLANK-59551

Analysis : Fluoranthene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.

QC Batch No. : GCMS/SEMI-9125

Sample ID : LFBLANK-59551

Analysis : Perylene

LABORATORY FORTIFIED BLANK RECOVERY IS OUTSIDE OF CONTROL LIMITS. ANY REPORTED VALUE FOR THIS COMPOUND IS LIKELY TO BE BIASED ON THE HIGH SIDE.



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QUALITY CONTROL DEFINITIONS AND ABBREVIATIONS

QC BATCH NUMBER	This is the number assigned to all samples analyzed together that would be subject to comparison with a particular set of Quality Control Data.
LIMITS	Upper and Lower Control Limits for the QC ANALYSIS Reported. All values normally would fall within these statistically determined limits, unless there is an unusual circumstance that would be documented in a NOTE appearing on the last page of the QC SUMMARY REPORT. Not all QC results will have Limits defined.
Sample Amount	Amount of analyte found in a sample.
Blank	Method Blank that has been taken through all the steps of the analysis.
LFBLANK	Laboratory Fortified Blank (a control sample)
STDADD	Standard Added (a laboratory control sample)
Matrix Spk Amt Added	Amount of analyte spiked into a sample
MS Amt Measured	Amount of analyte found including amount that was spiked
Matrix Spike % Rec.	% Recovery of spiked amount in sample.
Duplicate Value	The result from the Duplicate analysis of the sample.
Duplicate RPD	The Relative Percent Difference between two Duplicate Analyses.
Surrogate Recovery	The % Recovery for non-environmental compounds (surrogates) spiked into samples to determine the performance of the analytical methods.
Sur. Recovery (ELCD)	Surrogate Recovery on the Electrolytic Conductivity Detector.
Sur. Recovery (PID)	Surrogate Recovery on the Photoionization Detector.
Standard Measured	Amount measured for a laboratory control sample
Standard Amt Added	Known value for a laboratory control sample
Standard % Recovery	% recovered for a laboratory control sample with a known value.
Lab Fort Blank Amt	Laboratory Fortified Blank Amount Added
Lab Fort Blk. Found	Laboratory Fortified Blank Amount Found
Lab Fort Blk % Rec	Laboratory Fortified Blank % Recovered
Dup Lab Fort Bl Amt	Duplicate Laboratory Fortified Blank Amount Added
Dup Lab Fort Bl Fnd	Duplicate Laboratory Fortified Blank Amount Found
Dup Lab Fort Bl % Rec	Duplicate Laboratory Fortified Blank % Recovery
Lab Fort Blank Range	Laboratory Fortified Blank Range (Absolute value of difference between recoveries for Lab Fortified Blank and Lab Fortified Blank Duplicate).
Lab Fort Bl. Av. Rec.	Laboratory Fortified Blank Average Recovery
Duplicate Sample Amt	Sample Value for Duplicate used with Matrix Spike Duplicate
MSD Amount Added	Matrix Spike Duplicate Amount Added (Spiked)
MSD Amt Measured	Matrix Spike Duplicate Amount Measured
MSD % Recovery	Matrix Spike Duplicate % Recovery
MSD Range	Absolute difference between Matrix Spike and Matrix Spike Duplicate Recoveries



con-test
ANALYTICAL LABORATORY

® 39 Spruce Street
East Longmeadow, MA 01028
413.525.2332
413.525.6405 (fax)

RESULTS FOR EPA METHOD PM-10

LIMT Number: 03798

Date Analyzed: 02/12/07
Analyst: MM

Lab ID Number: 07B04168

Volume: 1715 M³

Client ID Number: CA-AIR1-PM10-020807

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

44.5

0.026

Lab ID Number: 07B04169

Volume: 1745 M³

Client ID Number: CA-AIR2-PM10-020807

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

80.0

0.046

Lab ID Number: 07B04170

Volume: 1687.5 M³

Client ID Number: CA-AIR3-PM10-020807

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

49.9

0.030

Lab ID Number: 07B04171

Volume: 1770 M³

Client ID Number: CA-AIR4-PM10-020807

Analyte:

**Sample
Results
MG**

**Sample
Results
MG/M3**

PM-10

24.8

0.014

PM-10 = Particulate matter having an aerodynamic diameter less than or equal to 10 micrometers.

MG = Milligrams

MG/M3 = Milligrams per cubic meter

Method: EPA PM-10

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01

Client Name: DA Collins
Alt: Keith Chadwick
Address: 101 Route 67 PO Box 191
Mechanicville, NY 12118

Telephone: 518-664-9855

Site Location: FBR
Sampled By: Keith Chadwick

Batch #: 2006-516

Call Results: Yes No

Project #: 2006-516

Fax OR Email Results: Fax#:

Client P.O. #:

Email Format: .pdf format .xls format

Email Address: kchadwick@dacollins.com

Sampled By: Keith Chadwick		Client P.O. #:											
Call Results: Yes ___ No ___		Email Format: ☒ pdf format ☒ xls format											
Fax OR Email Results: Fax#:		Email Address: kchadwick@dacollins.com											
Total # of Containers submitted with this chain: _____													
Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)
			Start Date/Time	Stop Date/Time			WASTE WATER	GROUND WATER	DKG WATER	Soil	Air		
1.250 ³ / ₄ 3/4	CA-Air1-PM10-020807	04168	630 2/8/07	522 2/8/07								☒	
1.250 ³ / ₄ 3/4	CA-Air2-PM10-020807	04169	635	551								☒	
1.250 ³ / ₄ 3/4	CA-Air3-PM10-020807	04170	715	545								☒	
1.250 ³ / ₄ 3/4	CA-Air4-PM10-020807	04171	620	556								☒	
	CA-Air1-T015-020807	04172	630	522								☒	
	CA-Air2-T015-020807	04173	635	551								☒	
	CA-Air3-T015-020807	04174	715	545								☒	
	CA-Air4-T015-020807	04175	620	556								☒	

CONTAINER CODE

P: PLASTIC () Size) V = 40 ml vial G = Glass () size) A = 1000 ml Amber O = Other

PRESERVATIVE CODE:

I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER

Relinquished by: (Signature)	Date Time	Received by: (Signature)	Date Time
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Date Time
Relinquished by: (Signature)	Date Time	Received by: (Signature)	Date Time

Remarks/Comments:	Turnaround Requested: 24-Hour	Other: 48-Hour	Date Required
Detection Limit Requests:	Regulations?	SIMS: Yes No	

P	M	T
0	1	1
0	1	5

Analysis Required

CHAIN OF CUSTODY RECORD

39 SPRUCE ST. • 2ND FLOOR • EAST LONGMEADOW, MA 01101

Client Name: DA Collins

Limit # 03798

Telephone: 518-664-9855

Attn: Keith Chadwick

Batch #:

Address: 101 Route 67 PO Box 191
Mechanicville, NY 12118

Project #: 2006-516

Site Location: FBR

Sampled By: Keith Chadwick

Client P.O. #:

Call Results: Yes No

Email Format: ☒ .pdf format ☒ .xls format

Fax OR Email Results: Fax#:

Email Address: kchadwick@dacollins.com

Total # of Containers submitted with this chain:

Field Sample I.D.	Sample Description	Lab #	DATE SAMPLED		Composite	Grab	MATRIX					Preservative (Use Code)	Container (Use Code)
			Start Date/Time	Stop Date/Time			WASTE WATER	GROUND WATER	DKG WATER	Soil	Air		
384.89 μM^3	CA-Air1-T013-020807	✓ 04176	630 7/8/07	522 2/5/08							✓		
392.89 μM^3	CA-Air2-T013-020807	✓ 04177		635 551							✓		
387.43 μM^3	CA-Air3-T013-020807	✓ 04178		715 545							✓		
334.15 μM^3	CA-Air4-T013-020807	✓ 04179		620 556							✓		
358.94 μM^3	CA-Air1-T04-020807	✓ 04180		630 522							✓		
379.60 μM^3	CA-Air2-T04-020807	✓ 04181		635 551							✓		
369.18 μM^3	CA-Air3-T04-020807	✓ 04182		715 545							✓		
401.14 μM^3	CA-Air4-T04-020807	✓ 04183		620 556							✓		

CONTAINER CODE

P: PLASTIC () Size Y = 40 ml vial G = Glass () size A = 1000 ml Amber 0 = Other

PRESERVATIVE CODE:

I = ICED N = HNO₃ H = HCl S = NaOH T = Na₂S₂O₃ O = OTHER

If this section is not filled out, Con-Test will analyze at normal turnaround.

Turnaround Requested: ☒ 24-Hour ☐ 48-Hour ☐ Normal

Other: Date Required

Relinquished by: (Signature)

Date Time

Received by: (Signature)

Received by: (Signature)

Remarks/Comments:

Detection Limit Requests: Regulations?

Relinquished by: (Signature)

Date Time

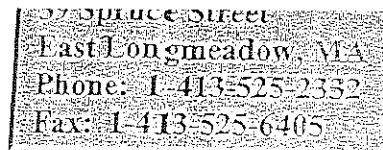
Received by: (Signature)

MATRIX OTHER

SIIMS: ☐ Yes ☐ No

Analysis Required

T T
0 0
1 4
3



SAMPLE RECEIPT CHECKLIST

CLIENT NAME: DA Collins
RECEIVED BY: Mek

DATE: 2/9/07

1. Was chain of custody relinquished and signed? YES NO
2. Does Chain agree with samples? YES NO

If not, explain:

3. All Samples in good condition? YES NO

If not, explain:

4. Were samples received in compliance with Temperature 0-6 degrees C? YES NO

Degrees 40C

5. Are all soil vph & voc samples covered with preservation? YES NO

6. Are there any dissolved samples for the lab to filter? YES NO

Who was notified? _____ Date: _____ Time: _____

6. Are there any on hold samples? YES NO

7. Laboratory analysts notified? YES NO
Who MAM Time 18:20 Date 2/9/07

8. Location where samples are stored: IC, EXT

CONTAINERS SENT IN TO CON-TEST	# of containers	CONTAINERS SENT TO CON-TEST	# of containers
1 liter amber		Air Cassettes	
500 ml amber		8 oz clear jar	
250 ml amber (8oz. Amber)		4 oz clear jar	
1 liter plastic		2 oz clear jar	
500 ml plastic		Plastic bag	
250 ml plastic		Encore	
40 ml vial		Brass Sleeves	
Colisure bottle		Tubes	
Dissolved oxygen bottle		Summa cans	<u>4</u>
Flashpoint bottle		Other	

Laboratory comments: *4 folders
*8 silver cans

Do all the samples have the correct pH levels? YES NO If no, please explain below:

Appendix L

Emissions Test Data Evaluation